

TAPR APRS Special Interest Group Archive, December 1994 through December 1995

December 1994 through December 1995

TAPR's discussion forum for the Automatic Packet Reporting System (APRS), including software, hardware, GPS, mapping, networking, operations, and related technical topics.

This volume contains 12 original monthly files and 5,140 messages, arranged chronologically. The PDF is a readable access copy: MIME transfer encodings are decoded, HTML bodies are converted to plain text, and non-text attachments are represented by descriptive notes. The raw source text is supplied separately with the Internet Archive item.

Month	Messages	Original source file
1994-12	23	aprssig.9412
1995-01	105	aprssig.9501
1995-02	90	aprssig.9502
1995-03	338	aprssig.9503
1995-04	400	aprssig.9504
1995-05	597	aprssig.9505
1995-07	552	aprssig.9507
1995-08	559	aprssig.9508
1995-09	453	aprssig.9509
1995-10	533	aprssig.9510
1995-11	660	aprssig.9511
1995-12	830	aprssig.9512

December 1994

Original source file: aprssig.9412

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1994-12/TAPR-APRS_1994-12.txt

1. MacAPRS 1.1.0 Update

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Wed, 21 Dec 1994 09:38:53 -0500
To: ablock@nubis.rutgers.edu, dalpert@merle.acns.nwu.edu, daxenos@bu.edu,
"David P. Worrall" <70214.2530@CompuServe.COM>, Emmet2@aol.com,
heyu@aol.com, jan@archimedes.chinalake.navy.mil,
kb2ear@kb2ear.overleaf.com, rbarris@quicksilver.com,
sdimse@umbio.med.miami.edu (Steven S. Dimse), skou@inel.gov,
thayes@hardees.rutgers.edu, tstader@aol.com, wolft@dbisna.com,
wpmichel@srp.gov, ka6eyh@muncney.com, wannamaker@macnet.vpharm.com,
kc6rol@amsat.org, 72170.30@compuserve.com, delta2@infi.net,
castonj@ireq.hydro.qc.ca, lipson@ctobbs.com, rrucker@mitre.org,
rewing@mitre.org, DwainM7367@aol.com,
"Joe Moell" <joemoell@cup.portal.com>, gpotter@collabra.com,
74736.3171@compuserve.com,
Richard H Inacker <inacker@pogo.den.mmc.com>, aprssig@tapr.org
Message-ID: <9412211437.AA11833@peabody.sct.ucarb.com>
Rendered body type: text/plain

MacAPRS 1.1.0 is now out.

It has a major new feture. The MAP menu is now HEIRARCHICAL. If you have FOLDERS in you MAPS folder, it will create a HERIRACHICAL menu with that folder name

MacAPRS 1.1.0 is now up on ftp.ucsd.edu in the directory
hamradio/packet/tcpip/incoming.

MacAPRS is also available in PowerPC native version for the PowerMacs. If you have a PowerMac and would like this version, please send me E-Mail and I will get it to you.

APRS for the PC, version 6.2 is also on this same FTP site.

Keith Sproul

Keith Sproul	Amateur Radio: WU2Z
Union Carbide Corp	Home Address:
PO Box 670	698 Magnolia Road
Bound Brook, NJ 08805	North Brunswick, NJ 08902-2647
Work: 908 563-5389	akasbb1@peabody.sct.ucarb.com
Fax: 908 563-5035	Packet Radio: wu2z@kb4cyc.nj.usa
Home: 908 821-4828	AppleLink: Sproul.K

2. Need help with APRS 6.2a and MFJ-1270B

From: Thomas Griffin - x7792 <griff@SSD.intel.com>
Date: Thu, 22 Dec 1994 13:12:09 -0800 (PST)
To: aprssig@tapr.org
Cc: griff@SSD.intel.com (Thomas Griffin - x7792)
Message-ID: <941222112.AA08016@bungee.SSD.intel.com>
Rendered body type: text/plain

Let's see if anyone is listening to this mailing list yet...

I have APRS 6.2a for DOS that I am trying to get working with my MFJ-1270B. The TNC was originally a MFJ-1270 that I upgraded to a "B" and has the TAPR 1.1.8 firmware.

When APRS talks to the TNC all I see is garbage from the TNC. If I use Procomm I can talk to the TNC without any problems. In Procomm I am using 9600 baud, no parity, 7 data bits, and 2 stop bits. If I use 8 data bits in Procomm I see the same garbage as I see with APRS. Everything works fine if I use an AEA PK-232MBX TNC.

I used the DOS "mode" command to set the communication parameters before starting APRS, but I still get garbage. Is APRS setting the com port to 8 bits? Perhaps there is something I need to set in the TNC? The dip switches on the TNC can only set the radio and serial port baud rates.

Does anyone know how to contact the APRS author (Bob Brininga, WB4APR) via the Internet? I don't think it would be appropriate to discuss this via

Packet radio since Bob is selling APRS as shareware.

I wanted to give APRS a try while I'm on vacation for two weeks starting 12/24. Does anyone know if there is much APRS activity in the Rochester, NY or Boston, MA areas? I haven't found any APRS activity in Portland, OR.

Any help will be greatly appreciated!

Thomas (Griff) Griffin, N7ZKL
griff@ssd.intel.com Internet
n7zkl@k7iqi.or.usa.noam Packet

3. Re: [APRSSIG:2] Need help with APRS 6.2a and MFJ-1270B

From: Steve Schwarm <schwarm@spectre.mitre.org>
Date: Thu, 22 Dec 1994 16:37:53 -0500
To: aprssig@tapr.org
Message-ID: <199412222137.QAA18482@spectre.mitre.org>
Rendered body type: text/plain

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> Procomm I can talk to the TNC without any problems. In Procomm I am
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> data bits in Procomm I see the same garbage as I see with APRS. Everything
> works fine if I use an AEA PK-232MBX TNC.

Your problem is the 2 stop bits. All data rates over 110 bit/sec.
use one stop bit. Procomm should be set to no parity, 8 data
bit and 1 stop bit. This is also true for APRS.

Stephen(Steve) Schwarm, W3EVE
Principal
The MITRE Corp.
202 Burlington Rd MS B155
Bedford, MA 01730
(617)271-4600
FAX: (617)271-4686
Schwarm@mitre.org
Packet: W3EVE @ K1UGM.#EMA.MA.USA.NA

4. Re: [APRSSIG:2] Need help with APRS 6.2a and MFJ-1270B

From: imotion@iu.net (Howard Goldstein)
Date: Thu, 22 Dec 1994 17:18:18 -0500
To: aprssig@tapr.org
Message-ID: <199412222226.RAA22022@bb.iu.net>
Rendered body type: text/plain
Thomas Griffin - x7792 <griff@SSD.intel.com> writes:

>I used the DOS "mode" command to set the communication parameters before
>starting APRS, but I still get garbage. Is APRS setting the com port to
>8 bits? Perhaps there is something I need to set in the TNC? The dip
>switches on the TNC can only set the radio and serial port baud rates.

Set AWLEN 8, PARITY 0, and cycle power to the TNC.

I don't know why we're still shipping TAPR code with 7/E. At the time, it
was standard for many dialup systems. In that this is 1994, does anyone see
a problem with future releases set for 8/N like all modern TNCs?

Howie imotion@iu.net

5. Re: [APRSSIG:2] Need help with APRS 6.2a and MFJ-1270B

From: Gordon Fuller <gfuller@netcom.com>
Date: Thu, 22 Dec 1994 14:24:48 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9412221422.A3475-0100000@netcom16>
Rendered body type: text/plain

It sounds like you have the wrong baud rate for APRS. You might try it
with slower rate I had to go to 1200 for one old MFJ. As far as APRS in
the NW, I see a lot of HF activity but I am not sure what 2 meter freq.
they use up there. We use 145.010 here in N.Cal.

gfuller@netcom.com

On Thu, 22 Dec 1994, Thomas Griffin - x7792 wrote:

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>
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> or Boston, MA areas? I haven't found any APRS activity in Portland, OR.
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> Any help will be greatly appreciated!
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>
> Thomas (Griff) Griffin, N7ZKL
> griff@ssd.intel.com Internet
> n7zkl@k7iqi.or.usa.noam Packet
>

6. Re: [APRSSIG:3] Re: Need help with APRS 6.2a and MFJ-1270B

From: mmunster@qualcomm.com (Marvin Munster x5388)
Date: Thu, 22 Dec 1994 14:56:40 -0800
To: aprssig@tapr.org
Message-ID: <ab1fb378500210045ee8@[129.46.12.181]>
Rendered body type: text/plain

Ok, I am listening. I signed up to this reflector to find out how APRS works. How do I find out? What do I need to make it work? What kind of software is available? How well does it work? What are some of the practical applications that this has been put to? I have an Icom GPS and would like to put it to some more practical uses. I do a lot of exploring in Baja and this might be a good tool. Especially when we have the portable node working on Mt. Diablo at 9,600 feet (not bps).

Marvin.

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>> Procomm I can talk to the TNC without any problems. In Procomm I am
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>Your problem is the 2 stop bits. All data rates over 110 bit/sec.
> use one stop bit. Procomm should be set to no parity, 8 data
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>Stephen(Steve) Schwarm, W3EVE
>Principal
>The MITRE Corp.
>202 Burlington Rd MS B155
>Bedford, MA 01730
>(617)271-4600
>FAX: (617)271-4686
>Schwarm@mitre.org
>Packet: W3EVE @ K1UGM.#EMA.MA.USA.NA

7. Re: [APRSSIG:6] Re: Need help with APRS 6.2a and MFJ-1270B

From: janderson@ram.net
Date: Thu, 22 Dec 94 18:37:33 EST
To: aprssig@tapr.org
Message-ID: <01990.15021591@RAMail>
Rendered body type: text/plain

>Ok, I am listening. I signed up to this reflector to find out how APRS
>works. How do I find out? What do I need to make it work? What kind of
>software is available? How well does it work? What are some of the
>practical applications that this has been put to? I have an Icom GPS and
>would like to put it to some more practical uses. I do a lot of exploring
>in Baja and this might be a good tool. Especially when we have the
>portable node working on Mt. Diablo at 9,600 feet (not bps).
>
>Marvin.

APRS is a blast. I am currently using APRS v62B for DOS and love it.

You can use it with or without a GPS.

There is also a MAC version available.

I have both on my landline BBS here in Vienna, VA. There are also some
Internet sites that carry it for FTP but I don't know the systems.

If you're interested, 703/207-9622, APRS62B.ZIP. You'll need a 14k4 modem to
get the whole file. I'll post the ALLABOUT.IT file that comes with the
package...

Jack
N4ULS@ram.net

ALLABOUT.it 6.0 AUTOMATIC PACKET REPORTING SYSTEM (APRS)
(by WB4APR)

APRS is the result of my experience over the last 14 years with trying
to use packet radio for real-time communications or public service events.
Packet radio has great potential but so far has been best used for passing
large volumes of message traffic from point to point or into the national
distribution system. It has been difficult to apply packet to real time
events where information has a very short life time. Typically, several
steps are involved in preparing and passing message traffic including
decisions about routing and connectivity.

APRS avoids the complexity and limitations of trying to maintain a
connected network. It permits any number of stations to participate and
exchanges data just like voice users would on a single voice net. Any
station that has information to contribute simply transmits it, and all
stations receive it and log it. Secondly, APRS recognizes that one of the
greatest real-time needs at any special event or emergency is the tracking of
key assets. Where is the Event Leader? Where are the emergency vehicles?
Where's the fire? What's the Weather at various points in the County? Where
are the power lines down? Where is the flood? Where is the head of the
parade? Where are the VIP's? Where is the mobile ATV camera? Where are the
mobiles? Where is the hurricane? WHERE IS THE DX???

Included on the distribution disk are several README text files on
specific applications of APRS such as for weather nets, direction finding,
plotting satellite contacts, and monitoring DX clusters. You must read at
least the HELP.txt, DEMOS.txt, NewNotes.txt and README.1st files. APRS
accomplishes the real-time display of operational traffic via UI frame
broadcasts and map displays. There are three major display subsystems and
a number of other minor displays as follows:

LATEST BEACONS - This display maintains a list of the latest UI frame
received from each station. In effect, this is a multi-station one-line
broadcast message system. Since the lines contain the LATEST time of receipt,
this display shows if a station is still on line within the last few minutes.
In DX cluster mode, it accumulates a list of all users and what was their
latest command to the cluster.

POSITIONS - This display maintains a separate list of the positions of
each station. Each position report can also contain a brief comment. These
lines show the latest time of receiving a given position report and give an
indication of the latency in the network over unreliable paths such as HF.
They also contain Beam Heading for Direction Finding, and Weather conditions
for weather reporting stations. In DX mode, this list also contains the
positions of all DX spots and user-locations heard.

MAPS - Maps to any scale from .5 miles up to 2000 miles can be
displayed. Stations are instantly displayed when they transmit a properly
formatted position beacon. Stations with a reported course and speed are
automatically dead-reckoned to their present position. A complete database

of all the National Weather Service stations is built in. You can center the map anywhere in the world. In DX mode the map defaults to the whole world.

TRAFFIC - In addition to the BEACON text which is used to broadcast information to all other stations on the net, there is an operator-to-operator message capability. Any station can send one line messages to any other station. On receipt, the messages are acknowledged and displayed on the bottom of the receiving stations screen until the operator hits the K key to kill them. These messages are ideal for station-to-station comms while remaining within the APRS environment. However, they are not as effective as the connected protocol, and should not be used routinely for Rag-Chewing on a busy APRS net. To rapidly exchange text, select the COMM option under the OPS menu and use your TNC to connect to the guy.

BULLETINS - This screen is new in version 5.06. It provides the much needed BULLETIN Broadcast capability to keep all stations up to date on happenings and announcements. BULLETINS allow one station to send multiple lines to the BULLETIN page at ALL stations. It is simply a variant of the SEND command noted above, but the send address is BLN# where # is the line number of the BULLETIN line. On receipt, all stations sort the new BLN# lines onto the BULLETIN page so that corrections and replacements are possible.

READ MAIL - This screen shows the last 23 lines of messages exchanged by any stations on the net. Is useful for "READING THE MAIL". DX mode TALK traffic also shows up here.

ALL TRAFFIC LOG - This display is a time sequenced log of every new beacon or one line message sent. Beacons are logged the first time they are received. This is in contrast to the LATEST display which shows the most recent time of receipt of a beacon text. In DX mode, this screen shows a chronological list of all DX/WX/WWV and ANNOUNCEMENTS heard.

HEARD LOG - This display maintains a count of the total number of transmissions from each station per hour. These statistics are ideal for displaying the connectivity of the network over varying paths, such as HF, or to see when stations enter and leave the net.

DIGIPEATER LIST - This display displays the full raw packet header so that APRS users can see what digipeater paths are being used by other stations. The proper use of digipeaters is important in an APRS network. In DX mode, this list accumulates a list of all ACTIVE MESSAGES on the DX cluster.

STATION TRACKING. Although APRS automatically tracks mobile packet stations interfaced to GPS or LORAN navigation, the graphic capability of the maps works perfectly well with manual tracking or with GridSquares. Any station on HF or VHF that includes his GridSquare in brackets as the first text in his beacon text will be plotted by APRS. Additionally, any station can place an object on his map including himself and within seconds that object appears on all other station displays. In the example of a parade, as each checkpoint with packet comes on line, its position is instantly displayed to all in the net. Whenever a station moves, he just updates his position on his map and that movement is transmitted to all other stations. To track other event assets, only one packet operator needs to monitor voice traffic to hear where things are. As he maintains the positions and movements of all assets on his screen, all other displays running APRS software display the same displays. With version 3.04, there is a Tracking command on the P display that will cause APRS to keep the map display always centered on a selected object.

GRID SQUARES: APRS also plots stations by gridsquares. Because of the ambiguity of a grid-square position report, APRS will not display a four digit or six digit gridsquare report on map ranges less than 128 and 8 miles respectively. Stations reported in the same grid square are randomly offset from the center of the grid according to an algorithm based on the letters of their callsigns. This prevents the cluttering of all callsigns on top of each other in the same grid square. The resulting computed POSIT in the POSITION list is annotated to indicate that the position is approximate. Another advantage of GridSquare reporting in APRS is that it allows cautious people to participate in APRS without revealing their exact location. It is also very brief. Six characters vice seventeen. There is a special ALT-G mode to force your outgoing posit to be sent in GRID SQUARE format vice LAT/LONG. Shortening the packet is an advantage when reporting via MIR or SAREX.

USING DUMB TERMINALS IN AN APRS NETWORK: The simplicity and usefulness of this geographic capability cannot be overstressed. Stations running APRS simply move the cursor to where they think they are on the screen and their LAT/LONG coordinates are automatically transmitted to all other stations. Even the simplest of portable packet stations with dumb terminals can report their positions if they can reasonably interpolate their position on a map.

The portable station just looks at the map and enters his LAT/LONG into his beacon text. APRS also plots station positions based on Grid Squares. Eventually, we hope that all stations, no matter how they are using their TNC, will include their LAT/LONG or Grid Square in their Beacon Text so that their location is immediately available. See the PROTOCOL.txt file for details on APRS formats and help in using dumb terminals in an APRS network.

FREQUENCY COORDINATION: APRS makes an excellent mapping tool for frequency coordination. Separate APRS backup files can be maintained for each digital frequency. These files can be distributed via BBS's in the area, and stations can simply load these files into APRS and see where ALL stations are on all frequencies! Not only does this help the frequency coordinating body, but it also is a way to let users see what is where. See FRQCOORD.txt

SPACE APPLICATIONS: APRS could be a solution to the effective use of orbiting terrestrial style packet radio digipeaters in space such as on the Shuttle, MIR, AO-21 and ARSENE. The problem with space digipeaters is the saturation on the uplink channel which makes the use of a normal CONNECTED protocol impractical. For a CONNECTED contact, a total of five successive and successful packet transmissions are required. Not only does APRS reduce this to one packet, but it also capitalizes on the most fascinating aspect of the amateur radio hobby, and that is the display on a map of the location of those stations. If all stations were encouraged to simply insert their LAT/LONG or Grid Square as the first characters of their beacon text, everyone within the satellite footprint would see the location of every successful uplink. Since the shuttle is a rapidly moving object, the locations of successful uplink stations will move progressively along the ground track. All it would take to implement this capability is a single AMSAT news bulletin to ask all stations to insert their POSITS in their beacon text. No changes onboard the shuttle or MIR would be required. See SPACE.txt for further details.

FOX HUNTING OR DIRECTION FINDING: APRS is an excellent tool for plotting the location of a hidden transmitter, balloon, or interfering signal. APRS will display the intersection of bearing lines from a number of reporting stations and also overlapping signal strength contours if only signal strengths are reported. Finally, APRS includes the Fade-Circle Search and Rescue technique which can be used by a mobile with only an OMNI antenna to locate a hidden transmitter.

To use APRS for DFing, each station having a bearing report or a signal strength on the target, simply enters that bearing using the OPS-DF command. His station will then not only report his location, but also a line of bearing or signal strength contour. All stations running APRS can simply hit the X key to display the intersection of these bearing lines. Further, if a DF vehicle has a GPS or LORAN device on board, he can be tracked and directed right to the location of the target. There is an optional Doppler DF registration for direct connection of a Roanoke or Doppler Systems DF unit for automatically plotting and transmitting instantaneous DF bearings. Please note that APRS uses 360 degrees for North and 0 to indicate a signal strength report. For more DF info, see the DF.txt file.

WEATHER STATION REPORTING: APRS position reports can also include the wind speed and direction, as well as other important weather conditions. APRS supports a serial interface option to the ULTIMETER-II home weather station. With this interface, your station includes WX conditions in your position report for display at all other stations in the network. All weather stations show up as a bright blue circle, with a line indicating wind speed and direction. Remember that APRS uses 360 degrees for North and uses 000 to indicate that no wind direction is available. Each of these stations can be highlighted in turn with a single key stroke, so that all WX reports across the state can be had at a glance. See WX.txt for more information. APRS also has a database of the locations of all the NWS sites in the USA for instant display. APRS can also crunch a file of NWS hourly WX conditions and update all NWS stations on the map. NEW in version 6.2, APRS can set Alarms for WX conditions and any WX reports that exceed those values will send an alarm and show up in RED!

DX CLUSTERS: The positional display and real-time user communications makes APRS an ideal tool for the DX cluster user. Not only does he get to see all DX spots on the map, but by operating in the monitor only mode, he has reduced the overall packet load on the DX cluster. This is a benefit to everyone on the channel. Also the APRS monitoring station will see the SPOT as soon as the first station gets it, rather than later on down the list.

PROTOCOL - Since the objective of APRS is the rapid dissemination of real-time information using packet UI frames, a fundamental precept is that old information is less important than new information. All beacons, position reports, messages and display graphics are redundantly transmitted but at a longer and longer repetition rate. Each new beacon is transmitted immediately,

then 20 seconds later. After every transmission, the period is doubled. After ten minutes only six packets have been transmitted. After an hour this results in only 3 more beacons; and only 3 more for the rest of the day! All transmissions can be turned off using one of the CONTROLS commands. But a transmission can be forced at any time by hitting the X key. For details on the APRS raw packet formats see the PROTOCOL.txt file. The maximum period can be set so that packets are repeated no less often than some maximum period. See CAP.txt.

COMMANDS: In most cases the keyboard is always active. There is a mnemonic relationship between all functions and the appropriate key. For this reason, the PC function keys are avoided. (APRS processing of packets on the air is continuous EXCEPT while waiting for the user response to a prompt. These prompts are surrounded with a blue box). Commands fall in to 3 categories:

SCREENS:

Space Key	- Display map and all station locations
L - Latest beacons	- Displays the latest STATUS BEACON from each station
P - Positions	- Displays a list of all stations reporting positions
A - ALL packet log	- Keeps a chronological log of all beacons and messages
B - BULLETINS	- Keeps a list of all BULLETINS heard
R - Read Mail	- Displays the last 23 lines of messages between stns
D - Digis Used	- Displays the digipeater paths being used by others
H - Heard Log	- Displays packets per hour per station for 24 hours
V - VIEW	- Displays all packets on a scrolling screen

SUB-MENUS:

F1- Help	- Select from a MENU of HELP commands
C - Controls	- Display a one line status of all control states
F - FILES Menu	- For Loading/Saving files, or Replaying tracks
I - Input commands	- Used to input posits, DF info or add OBJECTs to map
O - OPERATIONS	- Several commands for normal operations
M - MAP Functions	- Functions dealing with maps
W - Weather Menu	- Displays the number of beacons per hour per station

TRAFFIC:

T - Traffic	- Displays your incoming and outgoing traffic
S - Send	- Sends traffic to a station
E - Erase	- Erases outgoing traffic lines
K - Kill	- Kills incoming traffic lines

DEMONSTRATION FILE: To see how the APRS system works on our frequency, use FILES-LOAD to load the file called FREQ579.BK. This file contains all the local stations on 145.79 MHz in our area. To see the tracking of the GPS equipped Army/Navy game football run, load the file named FBALL.BK and replay the file named FBALL.HST and select to see only FBALL, or CHASE1. To see the Marine Corps marathon event, load MARATHON.BK and replay the MARATHON.HST file. See Details in README.1st.

HOOKING STATIONS: The yellow circular cursor can be moved to select any station in the system using the arrow keys. On the MAP display move the cursor near any station symbol. Then hit the RETURN key to "hook" the station. Detail information on that station will be displayed at the bottom of the screen. Alternatively, use the + and - keys to step through each station one by one. You may also use the cursor on the P or L-list to hook a station or object. Once hooked, several functions may be performed:

1. ALL BEACONS - hitting the A key will list all beacons from that station currently in memory.
2. MOVE - performed by moving the cursor to the desired new location and pressing the Insert key. You are then prompted to enter in a new course, speed, comments or time as needed.
3. DELETE - performed by hitting the D key. Removes the station from the position file.
4. UPLINK - transmit the object to all other stations on the net
5. QUIT - quit uplinking the object to the net.
6. KILL - kill the object from all displays in the network
7. ALARM - you can set an alarm on a station which will alert you if that

station ever moves its position.

8. TRACK - will cause APRS to always center display on selected station

9. #MARK - By marking a station with the # symbol, only that station will be shown when # is used instead of SPACE BAR for drawing a map. If the * key is pressed, all symbols will be shown on the map, but only the marked symbols (#) will show callsigns.

The hook function also works on the LATEST and POSITION display lists by using the up/down arrow keys. If a position exists, hitting the SHOW key will display the map screen with that station centered on the display. This is useful for finding a station which is far off the currently displayed map range. If a position does not exist, you are given the opportunity to create one.

REPLAY: Since all beacons and position reports are retained, the positions of any moving station can be replayed either from memory or from a file. Tracks are kept in on-line memory until 150 have been saved, and then are saved to a HISTORY file. During REPLAY, use the C command to toggle on and off the display of callsigns, and use the HOME and page keys to center and zoom the map display if the mobile station moves off the screen. During replay, use these single key commands:

- C - CALLsigns on/off
- HOME - Homes map to presently displayed station
- SPACE- Redraws the present map to remove track clutter
- F - Faster. Speeds up playback
- G - Overlays the Civil Air Patrol Search and Rescue grids
- P - Pause
- S - Slow. Slows down playback
- Q - Quit playback.
- PgUp/PgDn - Zoom in and out

FILES: All APRS files are retained in four different sub-directories of BAKS, LOGS, HSTS, and README. There are several other files used by the system:

- MAPLIST .map - Contains a list of all map files to be used and also the default LAT/LONG, Range and GMT offset for your location
- BACKUP .BK - Automatic backup of system every time program is quit. This file is overwritten every time the program is quit. It can be reloaded by simply indicating the letter B for a filename.
- RESTORE.TNC - A list of the TNC commands used to restore your TNC after quitting APRS.
- NWSDATA.DAT - A sample file used to load National Weather Service data
- NWSPOSNS.DAT - A file of the locations of all NWS sites
- CAPGRIDS.DAT - A file of the Civil Air Patrol Sectional Aeronautical charts
- DXCALLS.DAT - Callsign prefix-to-LAT/LONG database for DX spots
- MAPFIX.BAS - A very comprehensive Qbasic program that can be used to fix, draw, and modify APRS maps!

CHESSBOARD: To demonstrate the flexibility of APRS in reporting the movement of objects on screens in a net, I have drawn a chessboard map in the center of the Gulf of Mexico. Any two stations can play chess easily using APRS by placing pieces on the map using the INPUT-ADD command and updating their positions using the cursor and INSert keys! The full 32 pieces are already loaded and saved in CHESS.BK. To move a piece, first enable it for uplinking using the U key on the P-list. Then move the cursor and hit the INSert key. Once the other station sees your move, and makes his next move, it is a good idea to Quit the uplinking of that piece using the Q key on the P-list to minimize channel traffic. Monitoring stations that have also zoomed into the chessboard will see the game progress too!

8. Re: [APRSSIG:2] Need help wit...

From: DJVelez@aol.com
Date: Fri, 23 Dec 1994 09:22:03 -0500
To: aprssig@tapr.org
Message-ID: <941223092201_5493828@aol.com>
Rendered body type: text/plain

I have passed your query along to Bob...

73 de Dan N4WZR

9. Re: [APRSSIG:8] Re: Need help...

From: DJVelez@aol.com
Date: Fri, 23 Dec 1994 09:38:50 -0500
To: aprssig@tapr.org
Message-ID: <941223093848_5502140@aol.com>
Rendered body type: text/plain

To clarify: I passed Bob's INTERNET address query along to him. I know he has one at work, but he may want to use another for these discussions...

73 de Dan N4WZR

10. MacAPRS to OS/2?

From: Kent Larson <klaron@access.digex.net>
Date: Fri, 23 Dec 1994 10:06:41 -0500 (EST)
To: APRSSIG <aprssig@tapr.org>
Cc: Keith Sproul <akasbb1@peabody.sct.ucarb.com>
Message-ID: <Pine.SUN.3.91.941223095932.25658A-100000@access1.digex.net>
Rendered body type: text/plain

Hi Keith,

Now that you have a PowerPC version I was wondering if it is possible to port to the OS/2 platform. I have been running OS/2 on a 486 for over a year and would LOVE to have APRS in native OS/2.

Thanks for starting this SIG.

Happy Holiday's to all!

11. APRS/TNC Compatability

From: "Jeyes, Arthur F. (Art)" <JEYESAF@f2groups.fsd.jhuapl.edu>
Date: Fri, 23 Dec 94 10:04:00 PST
To: aprssig@tapr.org
Message-ID: <2EFB3296@fsdsmtpgw.fsd.jhuapl.edu>
Rendered body type: text/plain

Was wondering if anyone could tell me what the TNC requirements are for APRS? Does it work in KISS mode? does it work with all types (i.e.: AEA, KAM) ? That type of information ... Thanks

Art.Jeyes -- AA3GU
Art.Jeyes@jhuapl.edu

12. Re: [APRSSIG:11] APRS/TNC Compatability

From: Thomas Griffin - x7792 <griff@SSD.intel.com>
Date: Fri, 23 Dec 1994 10:58:55 -0800 (PST)
To: aprssig@tapr.org
Cc: griff@SSD.intel.com (Thomas Griffin - x7792)
Message-ID: <9412231858.AA10389@bungee.SSD.intel.com>
Rendered body type: text/plain

> Was wondering if anyone could tell me what the TNC requirements are for
> APRS? Does it work in KISS mode? does it work with all types (i.e.: AEA,
> KAM) ? That type of information ... Thanks
>
> Art.Jeyes -- AA3GU
> Art.Jeyes@jhuapl.edu

APRS does not use KISS. It uses the "normal" converse/terminal (or whatever it is called) mode. The program lets you select AEA, KAM and TAPR TNCs. I've used it with an AEA PK-232MBX and a MFJ-1270B (TAPR). For the MFJ I had to give the TNC the AWLEN 8 and PARITY 0 commands with a terminal program then power cycled the TNC before running APRS.

73, Griff, N7ZKL
griff@ssd.intel.com

13. Re: [APRSSIG:12] Re: APRS/TNC Compatability

From: Sam_Lipson@berlex.com (Sam Lipson)
Date: Fri, 23 Dec 1994 15:56:33 -0800
To: aprssig@tapr.org
Message-ID: <efb63c70@ccgate.berlex.com>
Rendered body type: text/plain

For a Kam, the specific commands necessary (at least for MacAPRS) are:

MCOM OFF
MRESP OFF

HEADERLN OFF
MSTAMP OFF

73, de Sam, K06JR
Sam_Lipson@Berlex.Com

14. Is this SIG alive?

From: Kent Larson <klarson@access.digex.net>
Date: Thu, 29 Dec 1994 11:27:45 -0500 (EST)
To: APRSSIG <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.941229112630.10111A-100000@access4.digex.net>
Rendered body type: text/plain

Hello,

I have not been getting any messages from this SIG and I was wondering if it was still up and running.

Happy New Year!

15. Subscribe

From: Craig Ladane Lindsey <cll4@Ra.MsState.Edu>
Date: Thu, 29 Dec 1994 15:33:07 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199412292133.PAA07458@Isis.MsState.Edu>
Rendered body type: text/plain

I would like to subscribe to the aprs list...

Thanks,
Craig
cll4@ra.msstate.edu

Craig Lindsey - KC5AUG | My politics are simple: Always go right. If
Internet: cll4@ra.msstate.edu | you go left, you can never go right, and if
Office Phone : (601)325-8553 | you go right, you never go wrong. -Grizzard
WWW page: <http://www2.msstate.edu/~cll4/>

16. HF Gateways

From: rtomo@i-2000.com
Date: Thu, 29 Dec 94 21:54:41 EST
To: aprssig@tapr.org
Message-ID: <9412300254.AA15955@i-2000.com>
Rendered body type: text/plain

To Whom it May Concern:

I am running the installation figured below. I am trying to gateway the HF & VHF stations with APRS system. Can anyone tell me what hardware/software is necessary to complete this task? All my other Ham Radio Interfaces can be dual & triple ported except APRS.

Also, does anyone know how to get APRS program to run in windows while minimized like all my other Ham Radio software (NOS, Lan-Link, XPCOM, etc.)?

Please HELP!!!

Thanks,
73, Ron
KE2UK

Please reply to: rtomo@i-2000.com on EMAIL only. Tnx.

```
-----
| Rotatable
| Dipole
|
| 10.1515 LSB
|
=====
| KNWD 440S |
=====
| HF
|
=====

| APRS62A
| System
| Running under
| Windows 3.1
|
=====|=====|=====
| VHF

-X-X-X-X-X-X-X-X-X-X-
| 2 Meter
| Beam
| 145.79
|
|
| Yaesu
| 230R
|
=====
| VHF
```

```

| AEA      |-----| 386 DX 33 MHz. w/ co-proc|--| AEA  |
| PK232MBX | COM2   | 8 MB RAM,800MB Disk,SVGA |C | PK-88 |
=====0=====
M 1

```

~~~~~  
 Ronald A. Tomo, M.P.A., C.S.P.  
 Project Coordinator, Information Services, EHS  
 Res. (718) 251-1986 Voice & FAX - Off. (516) 228-6273  
 Internet: rtomo@i-2000.com & ke2uk@panix.com  
 Compuserve: 71615,1330  
 ~~~~~

17. TAPR Listserv

From: Greg Jones <gjones@tenet.edu>
 Date: Thu, 29 Dec 1994 21:55:55 -0600 (CST)
 To: bbssig@tapr.org (BBS SIG mailing), netsig@tapr.org (NETSIG mailing),
 aprssig@tapr.org, tapr-bb@tapr.org (TAPR-BB mailing),
 tapr-board@tapr.org (TAPR Board)
 Message-ID: <199412300355.VAA17396@Alice-Thurman.tenet.edu>
 Rendered body type: text/plain

Hi TAPR Internet folks.

As you may have noticed, your incoming e-mail box has been filled up with a batch of mail from the TAPR info server.

During the Xmas holidays and system hosed up and with our sysop gone out of town it has just now been corrected.

Thanks for the many messages I received letting us know we had a problem.

Shortly we will be moving to our final home and more than one person will have access to the system, which should allow quicker response to these type of problems when Lee is unavailable.

I would like to thank Lee, N5LYT for his terrific support on the system. Without his help to date, the TAPR info server would not be as well managed as it is currently.

Happy New Years everyone.

Greg

18. Re: [APRSSIG:16] HF Gateways

From: Kent Larson <klarson@access.digex.net>
 Date: Thu, 29 Dec 1994 23:09:00 -0500 (EST)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.941229230606.23740B-100000@access3.digex.net>
 Rendered body type: text/plain

I can't help you with HF but I have the same problem running APRS in a background session under OS/2. APRS is the only program I have that will not run in the background and I have not been able to solve the problem even after posting to all the boards and services I can think of. Bob uses screen modes 8 and 9 I think. I have a feeling it all has something to do with updating the screen.

Thought I'd just let you know someone else was having a similar problem.

On Thu, 29 Dec 1994 rtomo@i-2000.com wrote:

```

> To Whom it May Concern:
>
> I am running the installation figured below. I am trying to
> gateway the HF & VHF stations with APRS system. Can anyone tell me
> what hardware/software is necessary to complete this task? All my other
> Ham Radio Interfaces can be dual & triple ported except APRS.
>
> Also, does anyone know how to get APRS program to run in
> windows while minimized like all my other Ham Radio software (NOS,
> Lan-Link, XPCOM, etc.)?
>
> Please HELP!!!
>
> Thanks,
> 73, Ron
> KE2UK
>

```

```

> Please reply to:      rtomo@i-2000.com    on EMAIL only. Tnx.
>
>
> -----
> | Rotatable | -X-X-X-X-X-X-X-X-X- | 2 Meter
> | Dipole | | Beam
> | | | 145.79
> | 10.1515 LSB | ===== |
> | | | APRS62A | | |
> | ===== | | System | | =====
> | KNWD 440S | | Running under | | Yaesu |
> | ===== | | Windows 3.1 | | 230R |
> | HF | | | ===== | VHF
> | | | ===== |
> | ===== | ===== | ===== |
> | AEA | |-----| 386 DX 33 MHz. w/ co-proc | AEA |
> | PK232MBX | COM2 | 8 MB RAM, 800MB Disk, SVGA | C | PK-88 |
> | ===== | ===== | ===== |
> | M 1
>
> ~~~~~
> Ronald A. Tomo, M.P.A., C.S.P.
> Project Coordinator, Information Services, EHS
> Res. (718) 251-1986 Voice & FAX - Off. (516) 228-6273
> Internet: rtomo@i-2000.com & ke2uk@panix.com
> Compuserve: 71615,1330
> ~~~~~
>
>

```

19. MacAPRS

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
 Date: Fri, 30 Dec 1994 11:00:11 CST
 To: aprssig@tapr.org
 Message-ID: <00989B5C.FB48450E.33@INS.INFONET.NET>
 Rendered body type: text/plain

I hv downloaded the Mac version frm ucsd.edu TNX, Keith and Mark.
 I am unable to get it to place icons or anything on a map automatically.
 I can do it manually via the EDIT/ADD/STATION item, but nothing appears
 after rcpt of data that shows up in the text box at the bottom of the
 window from a station.
 Anyone have any ideas?
 I run a Max IIvx 5 Mb RAM, I've killed all DA's control panels, etc
 except for CD ROM stuff I think might be needed to use the callbook
 lookup feature which does work. Santa back ordere4d an additional 4 Meg of
 RAM, so tt will help, I think. But doubt if tt is reason for no display
 of even a dot icon on maps.
 TNX
 It is also an unregistered version! I'll be happy to send in the shareware
 fee if I am assured I can get it running.
 TNX again for the programming work!
 73

20. (no subject)

From: kevin.jessup@mail.mei.com (Kevin Jessup)
 Date: Fri, 30 Dec 1994 14:59:14 -0600
 To: aprssig@tapr.org
 Message-ID: <01HL9BIDK6EQ8WW02M@meipws.mis.mei.com>
 Rendered body type: text/plain

SUBSCRIBE

```

-----
kevin.jessup@mail.mei.com      "It is dangerous to put limits on wireless."
marquette electronics inc      Guglielmo Marconi, 1932
milwaukee, wi 53223
LIVE FREE OR DIE!              N9SQB ARRL

```

21. Re: [APRSSIG:19] MacAPRS

From: Kent Larson <klarson@access.digex.net>
 Date: Fri, 30 Dec 1994 23:34:49 -0500 (EST)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.941230233331.27054B-100000@access4.digex.net>
 Rendered body type: text/plain

I am not a Mac user but it sounds like you may not be receiving APRS
 packets. You might check and make sure you are on an APRS frequency - we

use 145.79.

On Fri, 30 Dec 1994, John W. (Bill) Hays, W00MV wrote:

> I hv downloaded the Mac version frm ucsd.edu TNX, Keith and Mark.
> I am unable to get it to place icons or anything on a map automatically.
> I can do it manually via the EDIT/ADD/STATION item, but nothing appears
> after rcpt of data that shows up in the text box at the bottom of the
> window from a station.
> Anyone have any ideas?
> I run a Max IIvx 5 Mb RAM, I've killed all DA's control panels, etc
> except for CD ROM stuff I think might be needed to use the callbook
> lookup feature which does work. Santa back ordere4d an additional 4 Meg of
> RAM, so tt will help, I think. But doubt if tt is reason for no display
> of even a dot icon on maps.
> TNX
> It is also an unregistered version! I'll be happy to send in the shareware
> fee if I am assured I can get it running.
> TNX again for the programming work!
> 73
>

22. Mac/PK-232 Problem solved

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Sat, 31 Dec 1994 02:20:06 CST
To: aprssig@tapr.org
Message-ID: <00989BDD.7E09BE66.53@INS.INFONET.NET>
Rendered body type: text/plain

ItDs too bad the commercial software developers donOt provide the level of support that Keith, wu2z, provides both via the INTERNET and then about fifteen minutes after I posted a problem on this SIG he calls me on the phone from his home. I have never had such fantastic support! All for a measley 30 buck shareware fee.

At any rate my problem is solved. The MacAPRS version runs FB after I made one change.

For users of the AEA PK-232(perhaps other AEA products, too) in addition to setting HEADERLINE to OFF and MON = 4, set MSTAMP = OFF. Then set the TNC out of HOST mode. Then start MacAPRS.

With MSTAMP ON it interfered with the decoding of incoming data. I was getting the data OK from the TNC, but it would not display anything on any map.

TNX again Keith!
73,
Bill

23. Subscribe

From: David Hansen <dwhansen@panix.com>
Date: Sat, 31 Dec 94 17:28:46 EST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.0.788912926.dwhansen@panix.com>
Rendered body type: text/plain

Subscribe

TKS dwhansen@panix.com

January 1995

Original source file: aprssig.9501

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1995-01/TAPR-APRS_1995-01.txt

1. RIGHTIME v2.58a

From: DJVelez@aol.com
Date: Sun, 1 Jan 1995 10:22:35 -0500
To: aprssig@tapr.org
Message-ID: <950101102233_3753590@aol.com>
Rendered body type: text/plain

Has anyone else experienced or resolved a conflict between APRS and RIGHTIME, the continuous DOS and CMOS clock error correction program? It appears RIGHTIME has its fingers EVERYWHERE... I experienced frequent APRS lockups after installing RT and I wondered if anyone can point me to a quick fix before I delete it. (486DX33 WFWG 3.11)

73 de Dan N4WZR

2. MacAPRS 1.2.0

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Tue, 3 Jan 1995 09:18:30 -0500
To: ablock@nubis.rutgers.edu, dalpert@merle.acns.nwu.edu, daxenos@bu.edu, "David P. Worrall" <70214.2530@CompuServe.COM>, Emmet2@aol.com, heyu@aol.com, jan@archimedes.chinalake.navy.mil, kb2ear@kb2ear.overleaf.com, rbarris@quicksilver.com, sdimse@umbio.med.miami.edu (Steven S. Dimse), skou@inel.gov, thayes@hardees.rutgers.edu, tstader@aol.com, wolft@dbisna.com, wpmichel@srp.gov, ka6eyh@muncy.com, wannamaker@macnet.vpharm.com, kc6rol@amsat.org, 72170.30@compuserve.com, delta2@infi.net, castonj@ireq.hydro.qc.ca, lipson@ctobbs.com, rrucker@mitre.org, rewing@mitre.org, DwainM7367@aol.com, "Joe Moell" <joemoell@cup.portal.com>, gpotter@collabra.com, 74736.3171@compuserve.com, Richard H Inacker <inacker@pogo.den.mmc.com>, Sam_Lipson@Berlex.Com, GregNel123@aol.com, ken@spacetime.mv.com, aprssig@tapr.org
Message-ID: <9501031419.AA09880@peabody.sct.ucarb.com>
Rendered body type: text/plain

MacAPRS 1.2.0 is now up at ftp.ucsd.edu

Currently it is in /hamradio/packet/tcpip/incoming.
However it may get moved to /hamradio/packet/aprs.

In the future, you need to check both places for the most recent version. The INCOMING directory is where I am allowed to put it, then eventually, it will get moved to the APRS directory..

New Features...

Statistics Window
=====

Has 'activity' charts. One for the last 24 hours, and on for the last week. These are BAR GRAPHS of packets-per-time. The 24-hour one shows how many packets for every 5-minute segment for the last 24 hours. The 1-week chart shows how many packets for every 1-hour segment for the last week. You can click on the graph to find out the exact value for any specific time slot. Or hold down the option key and click to get an overall value. Nice interface too.

There is a list of buffer sizes, used and maximums too. This is a good place to find out how many maps are loaded, how many active stations, how many ALLOWED stations, how big the packet buffers are etc..

Weather Chart Window & Weather Display Window
=====

If you have the Peet Bros Weather Station, there is significant amounts of weather history data that can now be viewed. The charts are exactly like the bar-charts described above..

If anybody has the Peet Bros Weather Station, please send me E-Mail..

Automatic Logging =====

The ability to AUTOMATICALLY start the logging.

In the MacAPRS Settings dialog box are 4 new check boxes.

[] STATION Logging
[] APRS Logging
[] NMEA Logging
[] Weather Logging

If checked, the logging will start automatically on startup of the program

Note. The STATION logging is relatively new. It writes the following information out to the file named STATIONS.LOG in the LOG folder.

Startup time and version of program.
Call sign and date of every station seen.

A couple of minor bug-fixes.
=====

Keith Sproul	Amateur Radio: WU2Z
Union Carbide Corp	Home Address:
PO Box 670	698 Magnolia Road
Bound Brook, NJ 08805	North Brunswick, NJ 08902-2647
Work: 908 563-5389	akasbb1@peabody.sct.ucarb.com
Fax: 908 563-5035	Packet Radio: wu2z@kb4cyc.nj.usa
Home: 908 821-4828	AppleLink: Sproul.K

3. UNPROTO usage

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Wed, 04 Jan 1995 10:52:23 CST
To: aprssig@tapr.org
Message-ID: <00989F49.B8B00C4F.5@INS.INFONET.NET>
Rendered body type: text/plain

I'm not very clear about just how and when and under what radio/TNC configuration the various "RELAY", "GATE" and "WIDE" commands or strings are to be used in the "UNPROTO" statement.
Could someone elaborate on that for me.
I.e. If I want the rest of the world (No ego here Hi Hi) to know where I am and I have only VHF what do I use? etc.
Then if I have a VHF and an HF radio what...? etc.
73

4. Re: [APRSSIG:26] UNPROTO usage

From: janderson@ram.net
Date: Wed, 04 Jan 95 12:13:26 EST
To: aprssig@tapr.org
Message-ID: <02038.15021591@RAMail>
Rendered body type: text/plain

>I'm not very clear about just how and when and under what radio/TNC configuration the various "RELAY", "GATE" and "WIDE" commands or strings are to be used in the "UNPROTO" statement.
>Could someone elaborate on that for me.
>I.e. If I want the rest of the world (No ego here Hi Hi) to know where I am and I have only VHF what do I use? etc.
>Then if I have a VHF and an HF radio what...? etc.
>73

If you have the DOS version, check the file DIGIS.TXT for a good explanation of how the protocol uses the wildcard digipeater aliases. If you have the Mac version there should be a similar description somewhere.

In a nutshell, the wildcard alias WIDE is reserved for wide area digipeaters that are positioned to pick up mobile position packets and relay them to other WIDES. The alias GATE is reserved for HF gateways that run on dual-port TNC's and allows position packets to be bridged from HF to VHF. The alias RELAY is good to use in your UNPROTO if you are mobile and too far from a WIDE to be heard but close enough to a home station that is configured with an alias of RELAY so your packet can get to a WIDE by going through the RELAY.

You should use care in specifying your unproto path. For example, WIDE,RELAY would create a mess as any RELAYS that can hear the WIDE you go through will repeat the packet at the same time causing massive collisions. WIDE,WIDE,WIDE should be avoided too. If you are close to a WIDE, you can try WIDE,WIDE at first, then specify actual callsigns once you get a feel for what is available on the frequency in your area. For example, you can start with WIDE,WIDE then switch to CALLSIGN,WIDE or CALLSIGN,CALLSIGN,WIDE, etc.

Jack
N4ULS@ram.net

5. APRS Mail list

From: rbeckett@netcom.com (Richard G. Beckett)
Date: Wed, 4 Jan 1995 10:58:50 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199501041858.KAA10313@netcom.netcom.com>
Rendered body type: text/plain

Please put me on the APRS mail list.

73 Rich - WB6EEE

6. KISS or BPQ TNC

From: kf5mg@kf5mg.ampr.org
Date: Thu, 5 Jan 95 12:09:43 cst
To: aprssig@tapr.org
Message-ID: <9501051812.AA0476@mgos2.ampr.org>
Rendered body type: text/plain

Anyone know how I can get APRS talking to a KISS mode TNC or a BPQ node? I want to get APRS talking to JNOS via a null modem cable. JNOS can only talk to a KISS mode TNC or perhaps a BPQ switch. APRS seems like it can only talk to a TNC in command mode. Any info would be appreciated.

73's de Jack - kf5mg
Internet - kf5mg@kf5mg.ampr.org - 44.28.0.14
- kf5mg@metronet.com - work (looking for)
PBBSnet - kf5mg@kf5mg.#dfw.tx.usa.noam - home (817) 488-4386
+=====+
+ D.A.M. - Mothers Against Dyslexia +
+=====+

7. Windows Based APRS?

From: kf5mg@kf5mg.ampr.org
Date: Thu, 5 Jan 95 12:13:02 cst
To: aprssig@tapr.org
Message-ID: <9501051815.AA0478@mgos2.ampr.org>
Rendered body type: text/plain

I've heard rumors about one or two Windows Based APRS programs. Are these programs available for testing? I'm looking to get APRS running on an OS/2 Machine and have it talk to JNOS on the same machine. In this application... it would be nice if APRS was windows based. Thanks.

73's de Jack - kf5mg
Internet - kf5mg@kf5mg.ampr.org - 44.28.0.14
- kf5mg@metronet.com - work (looking for)
PBBSnet - kf5mg@kf5mg.#dfw.tx.usa.noam - home (817) 488-4386
+=====+
+ D.A.M. - Mothers Against Dyslexia +
+=====+

8. Query on documentation

From: bjoeph@industry.org
Date: Thu, 05 Jan 95 13:44:16 EST
To: APRSSIG@TAPR.ORG
Message-ID: <9501051344.D7522SE@industry.org>
Rendered body type: text/plain

In order to get up to speed quickly, I'd like to obtain printed information on what APRS is.

I'm a retired physicist, a life-long sailor, and a QCWA-old, extra class ham, so I should understand what's going on. Yet, everything I've read on the subject in current ham literature seems exceptionally trivial. Can somebody point me in the right direction?

- - - - -
Bernard W. Joseph, K8LIX Internet: bjoseph@industry.org
(810) 468-5869 AX.25: k8lix@n8eqd.#semi.mi.us.noam
Avoid execrable gender-circumlocutions: use mafe.

□ SLMR 2.1a □

9. Re: [APRSSIG:30] Windows Based APRS?

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Thu, 5 Jan 1995 13:59:04 -0500
To: aprssig@tapr.org
Message-ID: <9501051900.AA14271@peabody.sct.ucarb.com>
Rendered body type: text/plain

> I've heard rumors about one or two Windows Based APRS programs. Are
>these programs available for testing? I'm looking to get APRS running
>on an OS/2 Machine and have it talk to JNOS on the same machine. In this
>application... it would be nice if APRS was windows based. Thanks.
>
>73's de Jack - kf5mg
>Internet - kf5mg@kf5mg.ampr.org - 44.28.0.14

There is a MACINTOSH version of APRS called MacAPRS (I wrote it)..
Someone asked a question about porting it to OS/2 here, but there was no
mention of anything being done.

The PC version is written in Quick-Basic...My Macintosh version is written in 'C'.

Keith Sproul

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: akasbb1@peabody.sct.ucarb.com
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb4cyc.nj.usa
Work: 908 563-5389	AppleLink: Sproul.K
Fax: 908 563-5035	Chairman ACG-NJ Mac Users Group
Home: 908 821-4828	Author of MacAPRS

10. Re: [APRSSIG:29] KISS or BPQ TNC

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Thu, 5 Jan 1995 13:59:09 -0500
To: aprssig@tapr.org
Message-ID: <9501051900.AA14273@peabody.sct.ucarb.com>
Rendered body type: text/plain

> Anyone know how I can get APRS talking to a KISS mode TNC or a BPQ
>node? I want to get APRS talking to JNOS via a null modem cable. JNOS can
>only talk to a KISS mode TNC or perhaps a BPQ switch. APRS seems like it
>can only talk to a TNC in command mode. Any info would be appreciated.
>
>73's de Jack - kf5mg
>Internet - kf5mg@kf5mg.ampr.org - 44.28.0.14

APRS only talks to NORMAL TNCs (TAPR-2 based) that have a MONITOR mode. In
KISS mode you do not get the data in the same formats and therefore it
doesn't work..
It might be able to be made to work, but that would had another level of
complexity to the parsing of the data...

Keith Sproul

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: akasbb1@peabody.sct.ucarb.com
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb4cyc.nj.usa
Work: 908 563-5389	AppleLink: Sproul.K
Fax: 908 563-5035	Chairman ACG-NJ Mac Users Group
Home: 908 821-4828	Author of MacAPRS

11. [APRSSIG:32] Re: Windows Based APRS?

From: kf5mg@kf5mg.ampr.org
Date: Thu, 5 Jan 95 13:28:16 cst
To: aprssig@tapr.org
Message-ID: <9501051929.AA0514@mgos2.ampr.org>
Rendered body type: text/plain

> There is a MACINTOSH version of APRS called MacAPRS (I wrote it)..
> Someone asked a question about porting it to OS/2 here, but there was no
> mention of anything being done.
>
>
> The PC version is written in Quick-Basic...My Macintosh version is written in 'C'.
>
> Keith Sproul

Is the source for either of these version available. I'd like to take a stab at doing an OS/2 version, but I don't want to have to start from scratch.

73's de Jack - kf5mg
Internet - kf5mg@kf5mg.ampr.org - 44.28.0.14
- kf5mg@metronet.com - work (looking for)
PBBSnet - kf5mg@kf5mg.#dfw.tx.usa.noam - home (817) 488-4386
+-----+
+ D.A.M. - Mothers Against Dyslexia +
+-----+

12. Re: [APRSSIG:31] Query on documentation

From: dkelly@nebula.tbe.com (david kelly)
Date: Thu, 5 Jan 95 13:34:17 -0600
To: aprssig@tapr.org
Message-ID: <9501051934.AA18777@nebula.tbe.com>
Rendered body type: text/plain

> In order to get up to speed quickly, I'd like to obtain printed
> information on what APRS is.
>
> I'm a retired physicist, a life-long sailor, and a QCWA-old, extra class
> ham, so I should understand what's going on. Yet, everything I've read
> on the subject in current ham literature seems exceptionally trivial.
> Can somebody point me in the right direction?
>
> - - - - -
> Bernard W. Joseph, K8LIX Internet: bjoseph@industry.org

You've hit the nail on the head Bernard, "...seems exceptionally trivial."
APRS seems exceptionally trivial. I subscribed to this list to be
enlightened but so far I'm underwhelmed.

Of course with a message like this I'm sure to be flamed. Please share
non-trivial flames with the list so we'll all be enlightened.

73, David N4HHE
dkelly@nebula.tbe.com

13. [APRSSIG:33] Re: KISS or BPQ TNC

From: kf5mg@kf5mg.ampr.org
Date: Thu, 5 Jan 95 13:29:52 cst
To: aprssig@tapr.org
Message-ID: <9501051936.AA0515@mgos2.ampr.org>
Rendered body type: text/plain

> APRS only talks to NORMAL TNCs (TAPR-2 based) that have a MONITOR mode. In
> KISS mode you do not get the data in the same formats and therefore it
> doesn't work..

Yep. That's what I've figured out so far.

> It might be able to be made to work, but that would add another level of
> complexity to the parsing of the data..
> Keith Sproul

Your right... it would add complexity but it would also add
flexibility. Currently my JNOS Box has 4 radios/tncs attached to it. It's
running in an OS/2 Dox box. One of the radios gives me a 9600b link to an
Internet Gateway. If I could have JNOS talk to the APRS program via KISS
and a NULL Modem cable, besides feeding data heard from the 4 radio ports
to aprs I could also feed it info taken from other APRS systems connected

via the gateway. I could let my TCP/IP system run, and then switch over to a OS/2 DOS Box running APRS (or a windows version) and see who's active locally... zoom out and see who's active in Texas... zoom further out...etc. Limiting me (and everyone else) to a dedicated TNC and radio would put a damper on my idea.

```
73's de Jack - kf5mg
Internet      - kf5mg@kf5mg.ampr.org          - 44.28.0.14
              - kf5mg@metronet.com           - work (looking for)
PBBSnet      - kf5mg@kf5mg.#dfw.tx.usa.noam  - home (817) 488-4386
+=====+
+                D.A.M. - Mothers Against Dyslexia                +
+=====+
```

14. WX Data

From: kf5mg@kf5mg.ampr.org
Date: Thu, 5 Jan 95 13:37:06 cst
To: aprssig@tapr.org
Message-ID: <9501051940.AA0516@mgos2.ampr.org>
Rendered body type: text/plain

When APRS received WX data... how is it displayed? I've been playing with a temperature IC that lets me determine the outdoor temp using my PC. I can broadcast this info in a UI frame using JNOS. If an APRS box receives this info (assuming that it's formatted correctly.) how will it be displayed?

Also... if I just have the Temp. data... do I have to specify 000 for wind speed and direction?

Thanks.

```
73's de Jack - kf5mg
Internet      - kf5mg@kf5mg.ampr.org          - 44.28.0.14
              - kf5mg@metronet.com           - work (looking for)
PBBSnet      - kf5mg@kf5mg.#dfw.tx.usa.noam  - home (817) 488-4386
+=====+
+                D.A.M. - Mothers Against Dyslexia                +
+=====+
```

15. Re: [APRSSIG:37] WX Data

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Thu, 5 Jan 1995 15:27:39 -0500
To: aprssig@tapr.org
Message-ID: <9501052029.AA09937@peabody.sct.ucarb.com>
Rendered body type: text/plain

> When APRS received WX data... how is it displayed? I've been playing
>with a temperature IC that lets me determine the outdoor temp using my
>PC. I can broadcast this info in a UI frame using JNOS. If an APRS box
>receives this info (assuming that it's formatted correctly.) how will
>it be displayed?

> Also... if I just have the Temp. data... do I have to specify 000
>for wind speed and direction?

>

> Thanks.

>

```
>73's de Jack - kf5mg
>Internet      - kf5mg@kf5mg.ampr.org          - 44.28.0.14
```

I will get you the exact format so that you can do this..

It would include your lat/lon, station type of Weather which is the underscore charcter, and then the weather data, yes, unknown data would be put in as zeros..

Keith Sproul

Keith Sproul	Amateur Radio: WU2Z
Union Carbide Corp	Home Address:
PO Box 670	698 Magnolia Road
Bound Brook, NJ 08805	North Brunswick, NJ 08902-2647
Work: 908 563-5389	akasbb1@peabody.sct.ucarb.com
Fax: 908 563-5035	Packet Radio: wu2z@kb4cyc.nj.usa
Home: 908 821-4828	AppleLink: Sproul.K

16. Re: [APRSSIG:35] Re: Query on documentation

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Thu, 5 Jan 1995 15:27:50 -0500
To: aprssig@tapr.org
Message-ID: <9501052029.AA09939@peabody.sct.ucarb.com>
Rendered body type: text/plain

>> In order to get up to speed quickly, I'd like to obtain printed
>> information on what APRS is.
>>
>> I'm a retired physicist, a life-long sailor, and a QCWA-old, extra class
>> ham, so I should understands what's going on. Yet, everything I've read
>> on the subject in current ham literature seems exceptionally trivial.
>> Can somebody point me in the right direction?
>>
>> - - - - -
>> Bernard W. Joseph, K8LIX Internet: bjooseph@industry.org
>
>You've hit the nail on the head Bernard, "...seems exceptionally trivial."
>APRS seems exceptionally trivial. I subscribed to this list to be
>enlightened but so far I'm underwhelmed.
>
>Of course with a message like this I'm sure to be flamed. Please share
>non-trivial flames with the list so we'll all be enlightened.
>
>73, David N4HHE
>dkelly@nebula.tbe.com

I see no reason to flame you.. Your comments are at least somewhat accurate.. I have known people that were able to get the PC version up and running with very little trouble without reading much documentation and people that had to struggle with it..

The Mac version is somewhat easier to get up and running, but it too has some things that are not as clear as they should be....

There are MANY different aspects to APRS, and some of them are fairly well written up in Bob's (WB4APR) documentation and some of them are not. I too have a problem of incomplete documentation and have been working on this problem.

Both Bob and I keep getting requests for MORE AND MORE features, and have not had as much time to get back to writing the documentation as we would like. A lot of Bob's documentation as simply 'evolved' over time...

Keith Sproul, WU2Z, Author of MacAPRS

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: akasbb1@peabody.sct.ucarb.com
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb4cyc.nj.usa
Work: 908 563-5389	AppleLink: Sproul.K
Fax: 908 563-5035	Chairman ACG-NJ Mac Users Group
Home: 908 821-4828	Author of MacAPRS

17. Re: [APRSSIG:35] Re: Query on documentation

From: janderson@ram.net
Date: Thu, 05 Jan 95 15:29:03 EST
To: aprssig@tapr.org
Message-ID: <02045.15021591@RAMail>
Rendered body type: text/plain

>> In order to get up to speed quickly, I'd like to obtain printed
>> information on what APRS is.
>>
>> I'm a retired physicist, a life-long sailor, and a QCWA-old, extra class
>> ham, so I should understands what's going on. Yet, everything I've read
>> on the subject in current ham literature seems exceptionally trivial.
>> Can somebody point me in the right direction?
>>
>> - - - - -
>> Bernard W. Joseph, K8LIX Internet: bjooseph@industry.org

>
>You've hit the nail on the head Bernard, "...seems exceptionally trivial."
>APRS seems exceptionally trivial. I subscribed to this list to be
>enlightened but so far I'm underwhelmed.
>
>Of course with a message like this I'm sure to be flamed. Please share
>non-trivial flames with the list so we'll all be enlightened.
>
>73, David N4HHE
>dkelly@nebula.tbe.com

You really have to try it to see what it's all about. It helps if there is established APRS activity in your area already. The first time I used it there was little activity and active digipeaters. That was almost two years ago, and I put it away after a few days of experimentation.

About a month ago I downloaded the latest version and fired it up again. Now I see stations all up and down the east coast (I'm in the DC area) that come in on 2m alone. There is a network of digipeaters that allow me to see position reports from as far north as New York City. It is a neat system and it has a lot of applications in some of the public service activities hams participate in, such as marathons, weather spotting, etc.

Part of its beauty is its simplicity. This may make it seem trivial at first, but after you see what it can do you might feel different about it.

Jack
N4ULS@ram.net

18. Re: [APRSSIG:31] Query on documentation

From: janderson@ram.net
Date: Thu, 05 Jan 95 15:31:24 EST
To: aprssig@tapr.org
Message-ID: <02047.15021591@RAMail>
Rendered body type: text/plain

>In order to get up to speed quickly, I'd like to obtain printed
>information on what APRS is.

I'll send two .TXT files to the list from the DOS version that pretty much explain what it is and what it does.

73
Jack
N4ULS@ram.net

19. Re: [APRSSIG:31] Query on documentation

From: janderson@ram.net
Date: Thu, 05 Jan 95 15:32:12 EST
To: aprssig@tapr.org
Message-ID: <02048.15021591@RAMail>
Rendered body type: text/plain

ALLABOUT.it 6.0 AUTOMATIC PACKET REPORTING SYSTEM (APRS)

APRS is the result of my experience over the last 14 years with trying to use packet radio for real-time communications or public service events. Packet radio has great potential but so far has been best used for passing large volumes of message traffic from point to point or into the national distribution system. It has been difficult to apply packet to real time events where information has a very short life time. Typically, several steps are involved in preparing and passing message traffic including decisions about routing and connectivity.

APRS avoids the complexity and limitations of trying to maintain a connected network. It permits any number of stations to participate and exchanges data just like voice users would on a single voice net. Any station that has information to contribute simply transmits it, and all stations receive it and log it. Secondly, APRS recognizes that one of the greatest real-time needs at any special event or emergency is the tracking of key assets. Where is the Event Leader? Where are the emergency vehicles? Where's the fire? What's the Weather at various points in the County? Where are the power lines down? Where is the flood? Where is the head of the parade? Where are the VIP's? Where is the mobile ATV camera? Where are the mobiles? Where is the hurricane? WHERE IS THE DX???

Included on the distribution disk are several README text files on specific applications of APRS such as for weather nets, direction finding,

plotting satellite contacts, and monitoring DX clusters. You must read at least the HELP.txt, DEMOS.txt, NewNotes.txt and README.1st files. APRS accomplishes the real-time display of operational traffic via UI frame broadcasts and map displays. There are three major display subsystems and a number of other minor displays as follows:

LATEST BEACONS - This display maintains a list of the latest UI frame received from each station. In effect, this is a multi-station one-line broadcast message system. Since the lines contain the LATEST time of receipt, this display shows if a station is still on line within the last few minutes. In DX cluster mode, it accumulates a list of all users and what was their latest command to the cluster.

POSITIONS - This display maintains a separate list of the positions of each station. Each position report can also contain a brief comment. These lines show the latest time of receiving a given position report and give an indication of the latency in the network over unreliable paths such as HF. They also contain Beam Heading for Direction Finding, and Weather conditions for weather reporting stations. In DX mode, this list also contains the posits of all DX spots and user-locations heard.

MAPS - Maps to any scale from .5 miles up to 2000 miles can be displayed. Stations are instantly displayed when they transmit a properly formatted position beacon. Stations with a reported course and speed are automatically dead-reckoned to their present position. A complete database of all the National Weather Service stations is built in. You can center the map anywhere in the world. In DX mode the map defaults to the whole world.

TRAFFIC - In addition to the BEACON text which is used to broadcast information to all other stations on the net, there is an operator-to-operator message capability. Any station can send one line messages to any other station. On receipt, the messages are acknowledged and displayed on the bottom of the receiving stations screen until the operator hits the K key to kill them. These messages are ideal for station-to-station comms while remaining within the APRS environment. However, they are not as effecient as the connected protocol, and should not be used routinely for Rag-Chewing on a busy APRS net. To rapidly exchange text, select the COMM option under the OPS menu and use your TNC to connect to the guy.

BULLETINS - This screen is new in version 5.06. It provides the much needed BULLETIN Broadcast capability to keep all stations up to date on happenings and announcements. BULLETINS allow one station to send multiple lines to the BULLETIN page at ALL stations. It is simply a variant of the SEND command noted above, but the send address is BLN# where # is the line number of the BULLETIN line. On receipt, all stations sort the new BLN# lines onto the BULLETIN page so that corrections are replacements are possible.

READ MAIL - This screen shows the last 23 lines of messages exchanged by any stations on the net. Is useful for "READING THE MAIL". DX mode TALK traffic also shows up here.

ALL TRAFFIC LOG - This display is a time sequenced log of every new beacon or one line message sent. Beacons are logged the first time they are received. This is in contrast to the LATEST display which shows the most recent time of receipt of a beacon text. In DX mode, this screen shows a chronological list of all DX/WX/WWV and ANNOUNCEMENTS heard.

HEARD LOG - This display maintains a count of the total number of transmissions from each station per hour. These statistics are ideal for displaying the connectivity of the network over varying paths, such as HF, or to see when stations enter and leave the net.

DIGIPEATER LIST - This display displays the full raw packet header so that APRS users can see what digipeater paths are being used by other stations. The proper use of digipeaters is important in an APRS network. In DX mode, this list accumulates a list of all ACTIVE MESSAGES on the DX cluster.

STATION TRACKING. Although APRS automatically tracks mobile packet stations interfaced to GPS or LORAN navigation, the graphic capability of the maps works perfectly well with manual tracking or with GridSquares. Any station on HF or VHF that includes his GridSquare in brackets as the first text in his beacon text will be plotted by APRS. Additionally, any station can place an object on his map including himself and within seconds that object appears on all other station displays. In the example of a parade, as each checkpoint with packet comes on line, its position is instantly displayed to all in the net. Whenever a station moves, he just updates his position on his map and that

movement is transmitted to all other stations. To track other event assets, only one packet operator needs to monitor voice traffic to hear where things are. As he maintains the positions and movements of all assets on his screen, all other displays running APRS software display the same displays. With version 3.04, there is a Tracking command on the P display that will cause APRS to keep the map display always centered on a selected object.

GRID SQUARES: APRS also plots stations by gridsquares. Because of the ambiguity of a grid-square position report, APRS will not display a four digit or six digit gridsquare report on map ranges less than 128 and 8 miles respectively. Stations reported in the same grid square are randomly offset from the center of the grid according to an algorithm based on the letters of their call signs. This prevents the cluttering of all call signs on top of each other in the same grid square. The resulting computed POSIT in the POSITION list is annotated to indicate that the position is approximate. Another advantage of GridSquare reporting in APRS is that it allows cautious people to participate in APRS without revealing their exact location. It is also very brief. Six characters vice seventeen. There is a special ALT-G mode to force your outgoing posit to be sent in GRID SQUARE format vice LAT/LONG. Shortening the packet is an advantage when reporting via MIR or SAREX.

USING DUMB TERMINALS IN AN APRS NETWORK: The simplicity and usefulness of this geographic capability cannot be over stressed. Stations running APRS simply move the cursor to where they think they are on the screen and their LAT/LONG coordinates are automatically transmitted to all other stations. Even the simplest of portable packet stations with dumb terminals can report their positions if they can reasonably interpolate their position on a map. The portable station just looks at the map and enters his LAT/LONG into his beacon text. APRS also plots station positions based on Grid Squares. Eventually, we hope that all stations, no matter how they are using their TNC, will include their LAT/LONG or Grid Square in their Beacon Text so that their location is immediately available. See the PROTOCOL.txt file for details on APRS formats and help in using dumb terminals in an APRS network.

FREQUENCY COORDINATION: APRS makes an excellent mapping tool for frequency coordination. Separate APRS backup files can be maintained for each digital frequency. These files can be distributed via BBS's in the area, and stations can simply load these files into APRS and see where ALL stations are on all frequencies! Not only does this help the frequency coordinating body, but it also is a way to let users see what is where. See FRQCOORD.txt

SPACE APPLICATIONS: APRS could be a solution to the effective use of orbiting terrestrial style packet radio digipeaters in space such as on the Shuttle, MIR, AO-21 and ARSENE. The problem with space digipeaters is the saturation on the uplink channel which makes the use of a normal CONNECTED protocol impractical. For a CONNECTED contact, a total of five successive and successful packet transmissions are required. Not only does APRS reduce this to one packet, but it also capitalizes on the most fascinating aspect of the amateur radio hobby, and that is the display on a map of the location of those stations. If all stations were encouraged to simply insert their LAT/LONG or Grid Square as the first characters of their beacon text, everyone within the satellite footprint would see the location of every successful uplink. Since the shuttle is a rapidly moving object, the locations of successful uplink stations will move progressively along the ground track. All it would take to implement this capability is a single AMSAT news bulletin to ask all stations to insert their POSITS in their beacon text. No changes onboard the shuttle or MIR would be required. See SPACE.txt for further details.

FOX HUNTING OR DIRECTION FINDING: APRS is an excellent tool for plotting the location of a hidden transmitter, balloon, or interfering signal. APRS will display the intersection of bearing lines from a number of reporting stations and also overlapping signal strength contours if only signal strengths are reported. Finally, APRS includes the Fade-Circle Search and Rescue technique which can be used by a mobile with only an OMNI antenna to locate a hidden transmitter.

To use APRS for DFing, each station having a bearing report or a signal strength on the target, simply enters that bearing using the OPS-DF command. His station will then not only report his location, but also a line of bearing or signal strength contour. All stations running APRS can simply hit the X key to display the intersection of these bearing lines. Further, if a DF vehicle has a GPS or LORAN device on board, he can be tracked and directed right to the location of the target. There is an optional Doppler DF registration for direct connection of a Roanoke or Doppler Systems DF unit for automatically plotting and transmitting instantaneous DF bearings. Please note that APRS uses 360 degrees for North and 0 to indicate a signal strength report. For more DF info, see the DF.txt file.

WEATHER STATION REPORTING: APRS position reports can also include the wind speed and direction, as well as other important weather conditions. APRS supports a serial interface option to the ULTIMETER-II home weather station. With this interface, your station includes WX conditions in your position report for display at all other stations in the network. All weather stations show up as a bright blue circle, with a line indicating wind speed and direction. Remember that APRS uses 360 degrees for North and uses 000 to indicate that no wind direction is available. Each of these stations can be highlighted in turn with a single key stroke, so that all WX reports across the state can be had at a glance. See WX.txt for more information. APRS also has a database of the locations of all the NWS sites in the USA for instant display. APRS can also crunch a file of NWS hourly WX conditions and update all NWS stations on the map. NEW in version 6.2, APRS can set Alarms for WX conditions and any WX reports that exceed those values will send an alarm and show up in RED!

DX CLUSTERS: The positional display and real-time user communications makes APRS an ideal tool for the DX cluster user. Not only does he get to see all DX spots on the map, but by operating in the monitor only mode, he has reduced the overall packet load on the DX cluster. This is a benefit to everyone on the channel. Also the APRS monitoring station will see the SPOT as soon as the first station gets it, rather than later on down the list.

PROTOCOL - Since the objective of APRS is the rapid dissemination of real-time information using packet UI frames, a fundamental precept is that old information is less important than new information. All beacons, position reports, messages and display graphics are redundantly transmitted but at a longer and longer repetition rate. Each new beacon is transmitted immediately, then 20 seconds later. After every transmission, the period is doubled.

After

ten minutes only six packets have been transmitted. After an hour this results

in only 3 more beacons; and only 3 more for the rest of the day! All transmissions can be turned off using one of the CONTROLS commands. But a transmis-

sion can be forced at any time by hitting the X key. For details on the APRS raw packet

formats see the PROTOCOL.txt file. The maximum period can be set so that packets are repeated no less often than some maximum period. See CAP.txt.

COMMANDS: In most cases the keyboard is always active. There is a mnemonic relationship between all functions and the appropriate key. For this reason, the PC function keys are avoided. (APRS processing of packets on the air is continuous EXCEPT while waiting for the user response to a prompt. These prompts are surrounded with a blue box). Commands fall in to 3 categories:

SCREENS:

Space Key	- Display map and all station locations
L - Latest beacons	- Displays the latest STATUS BEACON from each station
P - Positions	- Displays a list of all stations reporting positions
A - ALL packet log	- Keeps a chronological log of all beacons and messages
B - BULLETINS	- Keeps a list of all BULLETINS heard
R - Read Mail	- Displays the last 23 lines of messages between stns
D - Digis Used	- Displays the digipeater paths being used by others
H - Heard Log	- Displays packets per hour per station for 24 hours
V - VIEW	- Displays all packets on a scrolling screen

SUB-MENUS:

F1- Help	- Select from a MENU of HELP commands
C - Controls	- Display a one line status of all control states
F - FILES Menu	- For Loading/Saving files, or Replaying tracks
I - Input commands	- Used to input posits, DF info or add OBJECTS to map
O - OPERATIONS	- Several commands for normal operations
M - MAP Functions	- Functions dealing with maps
W - Weather Menu	- Displays the number of beacons per hour per station

TRAFFIC:

T - Traffic	- Displays your incoming and outgoing traffic
S - Send	- Sends traffic to a station
E - Erase	- Erases outgoing traffic lines
K - Kill	- Kills incoming traffic lines

DEMONSTRATION FILE: To see how the APRS system works on our frequency, use FILES-LOAD to load the file called FREQ579.BK. This file contains all the

local stations on 145.79 MHz in our area. To see the tracking of the GPS equipped Army/Navy game football run, load the file named FBALL.BK and replay the file named FBALL.HST and select to see only FBALL, or CHASE1. To see the Marine Corps marathon event, load MARATHON.BK and replay the MARATHON.HST file. See Details in README.1st.

HOOKING STATIONS: The yellow circular cursor can be moved to select any station in the system using the arrow keys. On the MAP display move the cursor near any station symbol. Then hit the RETURN key to "hook" the station. Detail information on that station will be displayed at the bottom of the screen. Alternatively, use the + and - keys to step through each station one by one. You may also use the cursor on the P or L-list to hook a station or object. Once hooked, several functions may be performed:

1. ALL BEACONS - hitting the A key will list all beacons from that station currently in memory.
2. MOVE - performed by moving the cursor to the desired new location and pressing the Insert key. You are then prompted to enter in a new course, speed, comments or time as needed.
3. DELETE - performed by hitting the D key. Removes the station from the position file.
4. UPLINK - transmit the object to all other stations on the net
5. QUIT - quit uplinking the object to the net.
6. KILL - kill the object from all displays in the network
7. ALARM - you can set an alarm on a station which will alert you if that station ever moves its position.
8. TRACK - will cause APRS to always center display on selected station
9. #MARK - By marking a station with the # symbol, only that station will be shown when # is used instead of SPACE BAR for drawing a map. If the * key is pressed, all symbols will be shown on the map, but only the marked symbols (#) will show callsigns.

The hook function also works on the LATEST and POSITION display lists by using the up/down arrow keys. If a position exists, hitting the SHOW key will display the map screen with that station centered on the display. This is useful for finding a station which is far off the currently displayed map range. If a position does not exist, you are given the opportunity to create one.

REPLAY: Since all beacons and position reports are retained, the positions of any moving station can be replayed either from memory or from a file. Tracks are kept in on-line memory until 150 have been saved, and then are saved to a HISTORY file. During REPLAY, use the C command to toggle on and off the display of callsigns, and use the HOME and page keys to center and zoom the map display if the mobile station moves off the screen. During replay, use these single key commands:

- C - CALLsigns on/off
- HOME - Homes map to presently displayed station
- SPACE- Redraws the present map to remove track clutter
- F - Faster. Speeds up playback
- G - Overlays the Civil Air Patrol Search and Rescue grids
- P - Pause
- S - Slow. Slows down playback
- Q - Quit playback.
- PgUp/PgDn - Zoom in and out

FILES: All APRS files are retained in four different sub-directories of BAKS, LOGS, HSTS, and README. There are several other files used by the system:

- MAPLIST .map - Contains a list of all map files to be used and also the default LAT/LONG, Range and GMT offset for your location
- BACKUP .BK - Automatic backup of system every time program is quit. This file is overwritten every time the program is quit. It can be reloaded by simply indicating the letter B for a filename.
- RESTORE.TNC - A list of the TNC commands used to restore your TNC after quitting APRS.
- NWSDATA.DAT - A sample file used to load National Weather Service data

NWSPOSNS.DAT - A file of the locations of all NWS sites
CAPGRIDS.DAT - A file of the Civil Air Patrol Sectional Aeronautical charts
DXCALLS.DAT - Callsign prefix-to-LAT/LONG database for DX spots
MAPFIX.BAS - A very comprehensive Qbasic program that can be used to fix,
draw, and modify APRS maps!

CHESSBOARD: To demonstrate the flexibility of APRS in reporting the movement of objects on screens in a net, I have drawn a chessboard map in the center of the Gulf of Mexico. Any two stations can play chess easily using APRS by placing pieces on the map using the INPUT-ADD command and updating their positions using the cursor and INSert keys! The full 32 pieces are already loaded and saved in CHESS.BK. To move a piece, first enable it for uplinking using the U key on the P-list. Then move the cursor and hit the INSert key. Once the other station sees your move, and makes his next move, it is a good idea to Quit the uplinking of that piece using the Q key on the P-list to minimize channel traffic. Monitoring stations that have also zoomed into the chessboard will see the game progress too!

20. Re: [APRSSIG:31] Query on documentation

From: janderson@ram.net
Date: Thu, 05 Jan 95 15:33:22 EST
To: aprssig@tapr.org
Message-ID: <02049.15021591@RAMail>
Rendered body type: text/plain

SUMMARY: APRS can be summed up with two concepts, REAL-TIME PACKET TACTICAL COMMUNICATIONS and MAPS. Probably 98 % of APRS potential does not need GPS or any tracking devices. Think of APRS as just a multi-user distributed packet network with a MAP display for many exciting amateur applications:

Network topology monitoring	Direction Finding
weather reporting	DX cluster monitoring
AMSAT ground station tracker	Satellite tracker (future)
boat/mobile/RV tracker	Special event tracker/organizer
Local area CHAT mode	HF DX plotter
RF path estimating	Search and Rescue
Frequency Coordination database	

To support the obvious Automatic Vehicle Location application it is important that all mobile operations should be on the single 145.79, 445.925, and 10.1515 LSB national vehicle tracking frequencies. Mobile's wander across political boundaries and single frequency XTAL controlled GPS trackers are common. See UHFFREQ.txt

Aside from these standard APRS frequencies for vehicle tracking and SKYwarn applications, there is no reason why APRS cannot be used as a monitoring tool on any frequency. If all NODES, BBS's, DIGI's and other full time packet stations simply included their position in their beacons, then any APRS user could see a network map of all assets on any frequency. This is an excellent Frequency Coordination tool! Each night when you secure, leave your APRS system on a different digital frequency and see who you pick up!

DEMONSTRATIONS: To get familiar with APRS, there are two important commands for seeing past events. First, you can load from a selection of BACKUP files a snapshot of previous events. These files are loaded using the FILES-LOAD command and reload all the APRS pages at the time the file was saved. Nothing moves, but you can see all the APRS screens that show the position, status, and latest packet from each station. The more powerful demonstration tool of APRS is the FILE-REPLAY feature which lets you replay the track history file of a previous event. All position reports are replayed to see station movements on the map. Many major APRS events are included on the distro disk. You should replay them all and use the PgUP/DN keys and HOME key to zoom in or out as the file is replayed.

DOCUMENTATION: Since APRS is a generalized packet tool with application in almost all facets of amateur radio, it is hard to write a simple description. For this reason all of the documentation so far is separated into numerous .TXT files, each focused on a particular subject. These files can be read ON-LINE using the F1(HELP)-FILES command. All of these files are in the README subdirectory:

FILENAME	DESCRIPTION
-----	-----
README.1st	This file
README.now	Tells you how to unzip the APRS distribution disk
NEWNOTES.txt	Tells of important changes in the latest versions
ALLABOUT.IT	General description and overview of APRS

AIRCRAFT.txt Using APRS from Aircraft and how to interface to ARNAV format
 BBSNOTES.txt Suggestions to BBS SYSOPS on how to use APRS
 CDROM.txt Using MAPFIX.bas to generate maps from \$32 USGS CD ROMs
 COMMERCL.txt COMMERCIAL APRS to interface with other DELORME/STREETS prgms
 DF.txt Information on DFing and AUTOMATIC Doppler interfaces!
 DEMOS.txt A quick summary of demonstrations and replays to impress you.
 DIGIS.txt Important info on using Digipeaters
 DIGITIZR.txt Using DIGITIZERS to draw your own maps with MAPFIX.bas prgm!
 PROTOCOL.txt Info on APRS formats for setting up TNC BTexts
 DX.txt Info on using APRS to plot DX spots on a DX cluster frequency
 GPS.txt Interfacing GPS or LORAN to APRS or stand-alone TNC's
 HF.txt Notes on the APRS HF tracking network
 HELP.txt Describes each of the APRS commands in detail
 MAPS.txt Detailed information on how to build your own maps
 MARATHON.txt Lessons learned at the Marine Corps Marathon
 MOBILE.txt Notes on Mobile operations with GPS
 OPS.txt Suggestions on routine APRS operations
 SCREEN.txt Describes the APRS screen and display areas
 SPACE.txt Suggested use of APRS for plotting satellite packet stations
 SYMBOLS.txt A table of APRS symbols and the symbol designators
 WX.txt Info on using APRS for displaying weather information
 BOATS.txt Suggested use of APRS to support the WaterWay Net

 IDEAS.txt A file of other neat APRS ideas to encourage others to write
 supporting TNC and forwarding code. Programmers READ IT!

SETUP: You should customize APRS to automatically come up centered on your favorite map screen by zooming the map to your center of activity. Either your home, or a WIDE area APRS digipeater. Next set your desired digipeater path using the UNPROTO command. (To understand the UNPROTO concept, refer to your TNC manual). Finally, use the ALT-SETUP menu to SAVE your config file. You will be prompted for your validation number and then asked for a CONFIG file extension. Normally just select the default of APRS unless you want to be able to invoke several different CONFIG files... Once you have saved a config file, APRS will always come up ready to go on your area.

Once you have zoomed into your neighborhood, non-registered users can use the FILE-SAVE command to SAVE a backup file of their current situation. When they start up APRS, after logging on, they simply use FILE-LOAD to LOAD that backup file to bring up the neighborhood map. Then they move the cursor and place themselves on the map in the right place. Europeans, or non US hams may want to change the default map from the initial USA map, to something closer to home. The initial map is determined by the default LAT/LONG and RANGE given in the first three lines of the MAPLIST.APR file. Without a config file, APRS always starts up at this location and scale. Obviously the locataion in Kansas was chosen so that the whole US came up first. As of version 5.9, you can have many different MAPLIST.xxx files.

MAPS! - To see my best maps so far, zoom into Idaho Falls at 43 30N and 112 02W to the 1 mile range, or either Baltimore or NewOrleans to the 4 mile scale. By now (June 94) there are large area maps for most of the USA that will get you down to the 32 or 64 mile VHF range in your area. You can make your own maps from the directions in MAPS.txt using a variety of different techniques. You can get a \$32 USGS CD rom that covers your area and use it to develop APRS maps all the way down to the street level. See CDROM.txt. In any case, dedication and effort are involved, but having a local street map that can be freely distributed to all the amateur community, is worth it. In some cases, I may be persuaded to do custom maps for anywhere from \$90 to \$195 depending on complexity and my wife's honey-do list. It is really quite simple to draw a map from any source. Just grid the map, define the upper left origin, and enter X-Y points for all features. A map of reasonable detail should only take a few evenings. Fortunately, everyone in your area can use the results of your efforts!

Look for an APRS BBS in your state. Already, Ohio Missouri and Calif have developed dozens of local maps. The biggest APRS states are CA,OH,FL,TX,MD, AZ,VA,NJ,and NewEngland. Thirty states have three or less users. If you are in one of these states, AND DONT HAVE A DECENT MAP OF YOUR AREA. Let me know! There are more APRS maps now than fit on the original APRS distribution disk. See XTRAMAPS.txt.

APRS PROTOCOL: APRS uses Unnumbered Information (UI) frames which are transmitted without ACKS to avoid the problems, complexities and in-efficiencies of a normal fully connected network. To be a good APRS operator, you need to understand DIGIPEATING and the use of the MY ALIAS and UNPROTO commands, since you are responsible for your own best path within the network. If you are unfamiliar with these UI terms, consult your TNC user manual. Although the

APRS documents speak frequently about BEACONS, it is important to note that these are NOT the TNC BText beacons. While APRS is on-line, it suppresses the TNC BText and generates its own Status and Position reporting UI frames.

PACKET POSITIONS ON ALL FREQS: Finally, encourage all BBS's, NODES, Servers, and stations in your area, to place their LAT/LONG in their beacon text using the format: BT !DDMM.xxN/DDMM.xxW/...comments. APRS will accept this fixed station position format anywhere in the ID text. APRS will also plot the positions of stations reporting by Grid Square surrounded by brackets [FM19xy]. If all packet assets get in that habit, then APRS will automatically plot a map of packet activity on any frequency! If stations will also put the new Power/antenna/gain format in their BText, then effective communications ranges can also be displayed! See PROTOCOL.txt for formats.

STAND-ALONE-GPS-TRACKERS: All PACCOM TNC's with version 3.2 firmware include a GPS command that tells the TNC to accept GPS data (NMEA-0183 format) on the serial port and place it in the TNC LOCATION TEXT. Then the TNC will transmit that Position at a rate set by the user! Note that this is a dedicated stand-alone application, and while the TNC is in this mode, it no longer operates as a normal TNC for two-way communications. But, this is the simplest method to build a stand-alone-tracker. If you are running the APRS software mobile on a laptop, then see GPS.txt for ways to use ANY TNC or ANY GPS while still operating on the air with APRS.

MORE READING: For more info on APRS, see page 92 of July and page 11 of the August 1993 QST and the Dec 1993 issue of CQ. Also get the February 1994 issue

of QEX for the article on Interfacing GPS to packet. More coverage was provided in October 94 issue of 73 magazine under the topic of HOMING IN, and a full page of pictures on page 14 of the DEC 94 issue of QST. Look for more in the Jan 95 issue of 73. Also see the front page of the May 1993 issue of the AMSAT journal (but the registration information is incorrect there).

BBS ADDRESS: My BBS address is WB4APR @ WB3V.MD. I cannot respond to tons of traffic, but will try to keep up... Do feel free to send me any comments or suggestions, but avoid any traffic in which I may have a pecuniary interest! Hi Hi! Look for a local APRS point of contact for your state. Some states have dedicated APRS phone line BBS's for distributing local APRS maps. Ohio is up to 50 maps as of Nov 94.

Other phone line BBS's known to carry APRS:

```
CALIF    415 359-6985 Daly City
OHIO     614 443-4249 Columbus
FLORIDA  407 575-9680
VIRGINIA 703 255-2172 Vienna
          703 362-8673
ARIZONA  602 938-7528
INTERNET @ muncey.com ip 140.174.180.1 in Public\APRS
          loggon as Guest or Anonymous with EMail addr as Pwd.
          @ oak.oakland.edu in SIMTEL/PACKET/PUB/HAMRADIO
          (Im not sure of the sequence of the above directories)
```

21. Re: [APRSSIG:37] WX Data

```
From: janderson@ram.net
Date: Thu, 05 Jan 95 15:36:10 EST
To: aprssig@tapr.org
Message-ID: <02050.15021591@RAMail>
Rendered body type: text/plain
```

```
> When APRS received WX data... how is it displayed? I've been playing
>with a temperature IC that lets me determine the outdoor temp using my
>PC. I can broadcast this info in a UI frame using JNOS. If an APRS box
>receives this info ( assuming that it's formatted correctly. ) how will
>it be displayed?
> Also... if I just have the Temp. data... do I have to specify 000
>for wind speed and direction?
>
> Thanks.
```

Here's the WX.TXT file from the DOS version that may help some.

73,

Jack
N4ULS@ram.net

New in 6.2b: You can now enter Wind in KPH and temp in Celsius
 New in 6.1: Added user WX alarms (See Alarms below). Finally fixed in 6.2a
 New in 6.0: You can now mark large areas from 100' to 100 miles on your maps and send the area as a symbol. Very useful for WX WARNINGS!

KPH and CELSIUS: I have added the ability to enter and display KPH and degrees Celsius. You enable this by doing a manual WX report entry and answer with EITHER K for KPH or C for Celsius. From then on, the WX display at the top of the screen will display in those units. You can make this permanent, by saving a CONFIG file. The on-air APRS WX protocols, however, still will be in MPH and F. Also, the ALARMS will be compared to MPH and F values.

WX ALARMS: At the suggestion of the NWS in Indianapolis, I have added certain user settable WX alarm settings. When ever a WX report comes in that exceeds the value, the station is plotted in RED and an ALARM is sounded. The alarms are WIND, TEMP, and RAIN. Besides the obvious wind threshold, the max and min temp settings can be used to warn of the passing of a warm or a cold front. These alarms can make an almost un-attended SKYWARN network! Just install an APRS computer at the NWS site, and let the NWS operators set the alarm levels. Then without transmitting a single packet (there is rarely a licensed HAM on the premises) the APRS screen will show all of the SKYWARN data and what sites are reporting alarm conditions!

CLEARING ALARMS: When an alarm condition occurs, the station is drawn in RED and the map is automatically re-drawn to center on that station. Also, the station is marked on the P-list with the ALARM marker. TO clear the alarm, simply hook the station on the map, and then UNhook it (hit the ENTER key twice). To clear the A on the P-list, hook the station and hit the A key. Normally, the ALARM on the P-list will only sound if that station MOVES. Since a WX station should not move, there is really no problem in leaving the A on the Plist until convenient to remove it.

OVERSIGHT in 6.1! Bells going off all the time, due to stations entering manual WX reports that do not exactly match the U-II generated APRS WX format. Also the PHGxxxx or DFSxxxx formats are interpreted as WIND and the ALARM sounds! Its fixed in 6.11. Sorry. xxxxx really fixed in 6.2a!

DISABLING WX ALARMS: In order to not set off alarms, simply set your thresholds higher than any values expected. The defaults are 100 for the high temp, 0 for the low temp, and 30 kts for the wind. Set Rain =0 to turn it off. If you live on Hawaii or Alaska, you may need to change these. In version 6.2a, these are saved in the config file.

BEGIN: The Automatic Packet Reporting System (APRS) is an ideal tool for reporting weather conditions via packet. The system is compatible with both human entry as well as automatic weather station entry of weather conditions. There is a \$9 serial interface option in APRS to accept the serial output of the ULTIMETER-II home weather station. With this connection, your wind conditions, temperature and optionally rain information are all automatically inserted into your position/weather report packet. You can even mount an Ultimeater-II remotely with only a TNC and Radio, and have it periodically report the remote weather conditions.

In the APRS system, current conditions at any station are broadcast to all stations on the net in a periodic fashion. Not only are these individual conditions available to all stations on the net, but also importantly, the location of these conditions are also displayed. There are several capabilities of APRS that are directly applicable to the SKYWARN:

MAP DISPLAY - Shows the location of all reporting stations, their wind speed and direction. Can also show the location of other objects, such as reports of TStorms, Hail, Tornados, etc. Now in version 6.0, you can mark large areas and send the borders either as a rectangle, circle, triangle, or lines. Use the OBJECTS-AREA symbol. Typically, use the color blue for thunderstorms, and red for tornados.

WEATHER ONLY - Using the normal J command, Just weather stations can be displayed on the map to eliminate the clutter of other packet stations. There is a WEATHER menu of commands, and the APRS N key will cycle through each APRS weather station in turn and display the weather conditions for each one in a box on top of the screen. The location of the displayed station is highlighted with a blue circle. Whenever a new report comes in from the selected station, the weather window is automatically

updated.

REPORT BROADCASTS - The individual station weather conditions can be manually placed in the Beacon Broadcast from each station or automatically using the APRS WX option (\$9) and ULTIMETER-II serial interface. These reports are typically broadcast every 10 minutes. The report is also available at anytime if an APRS user sends the WX station an APRS Query. There is a special WX query that will request all WX stations to immediately report.

STORM/HURRICANE TRACKING - Any station may place a storm or other object on his map, and the same symbol will be transmitted to all other stations in the net. This is ideal for transmitting the location of a storm or Hurricane. If the course and speed of advance of the storm is included in the position report, then the object will automatically be dead-reckoned on all screens until the next update. Any station can update the location of the storm as information becomes available. The updating station will automatically overwrite all posits in the net and will become the new reporting station for the object. This prevents duplicate reporting and eliminates dependency on reporting stations that might disappear and not update an object that they originated.

NOTE: Since APRS dead-reckons the position of moving objects as time progresses, the symbol on the map is presented where it SHOULD be, but NOT where it was when first reported. If you use the cursor to try to hook one of these objects on the map, you must hook the little gray circle which marks the position of the actual report, and not the symbol itself.

NATIONAL WEATHER SERVICE DISPLAY - KD4UYR in FLorida had written a data base program that would parse National Weather Service hourly bulletins into APRS compatible Backup files. After version 3.10, APRS has built-in commands to perform this function on line!. See below on the details.

OPERATOR MESSAGES - The Point-to-point message capability can be used for operator to operator messages and alerts.

COMMENTS - Transmitted along with each position report, there is a short comment field which can be used to report weather conditions, station status, intentions or other broadcast type information.

VEHICLE TRACKING - APRS can track the movements of any mobile with a GPS or LORAN receiver properly interfaced to a packet TNC.

SKYWARN APPLICATION: The map display has the capability of presenting both a station's position and his course and speed. APRS recognizes a special weather report indicator (W) so that all Wx reporting stations are highlighted in blue and the software recognizes that their course and speed indicators are for wind reporting and not for station course and speed. Note that APRS does not recognize 000 as North, but instead recognizes 360. A value of 000 is assumed to mean there is no wind direction available. Other than for the automatic ULTIMETER-II interface, the comment field can be used for a variety of free-format weather reports which can be tailored to the conditions at any time. Since a manually entered WX report should retain the time that it was valid, APRS will not update the date and time of each stations position (WX) report unless the automatic ULTIMETER-II interface is operating.

In addition to the weather data and comments on the Plist, the station Beacon Text is also available for broadcasting additional amplifying info. Any station running APRS simply calls up the LATEST display and sees the current conditions from all stations on one screen. Similarly, he calls up the map display and sees the location of all stations and all specially reported conditions. Any authorized station can insert the location of any special object on the map. The location of that reported object or condition is displayed on all screens in the network. Even non-packet voice stations making a weather report can be placed on the map (like an object) by another APRS packet operator. His station will appear similar to any other APRS weather station, except that his report will include a marker indicating that he was manually placed on the map by another operator. We have used APRS on weekends for reporting the Chesapeake Weather and Traffic net. Load the SKYWARN.BK file to see the APRS network during one of these nets. Also see the new section on how to load National Weather Service reports onto your APRS map.

NATIONAL WEATHER SERVICE HOURLY BULLETINS

KD4UYR Kevin, in Clearwater Florida wrote a database program to crunch the NWS hourly weather bulletins into APRS compatible BACKUP files. He could

then load them into APRS for display on the map. I have added this feature to APRS in the WEATHER menu. The GetNWS command will search the NWSposns.DAT file for all NWS stations within the boundaries of the current APRS map display. If the map is larger than 256 miles, then only a radius out to 250 miles is selected to prevent overloading the L and P lists. Similarly a minimum radius of 32 miles is also used to be sure that at least one NWS station is found. The database only had NWS locations to the nearest whole minute, so the positions are only accurate to the nearest mile or so. This process is my easy way of selecting the stations that you want to display.

The LOAD-WX-DATA command is used for loading the NWS data if available. This command will ask you for the name and path to a text file containing the downloaded NWS hourly reports. This file can be obtained from most of the commercial data servers or various BBS's. Do not ask me where to find them... The real WX nuts out there seem to have no trouble finding them, but in most cases it is a pay as you go service... APRS will then scan through the NWS bulletin file looking for each station that you have on your APRS P-LIST. If it finds a matching NWS bulletin, it will parse out the Wind speed/direction, the temperature and dew point and the barometric pressure and place these on the P-list. Then it will take the remainder of the report and place it in the L-list so that you can see the raw data which includes other notes about cloud cover and special conditions. In both cases, the time of the entry in the P and L-list will be the time of the NWS report (in local time). The date is assumed to be the current date.

Unfortunately, these reports were designed for human reading and are also generated by hand at all the NWS sites. There are frequently errors or improperly formatted reports. By looking at the L-List, most of these errors can be detected. If APRS can not make sense out of the report, it indicates with the words "garbled report" on the P-list. Once you have the display you like, you can select stations on the P-list for uplink to the net as desired. Since it is easy to generate lots of data and packets in this manner, I hope that stations will be considerate and not overload the channel. Once everyone on the net sees the reports, the uplinking station should consider Quitting to uplink in order to reduce QRM. Once the uplinked reports are no longer valid, the uplinking station should KILL them which will kill them from everyone's display (they will still be on everyone's P-list, however, for subsequent display using the SHOW command). Remember that KILL just marks them for NOT displaying so once you KILL them, you need to continue UPLINKING the KILL status for several beacon periods to be sure you killed everyone's version that is on the net.

DEMONSTRATION: To get an idea of how APRS works in a SKYWARN or other weather reporting environment, load the backup file SKYWARN.BK using the FILES-LOAD command. The stations would normally be bright blue, but all stations fade to gray if they have not been heard from in over 2 hours. Use the P command to pull up the position/weather reports and notice the format for the station W3AD0. That station is reporting the wind and temperature automatically using the optional ULTIMETER-II interface. To demonstrate the NWS capability, center your map on Florida at the 128 mile range enter the WEATHER-GET_NWS_SITES command. Once all the NWS stations appear on the map, then enter the WEATHER-LOAD_WX_FILE command to load the sample NWS data file provided by KD4UYR. Look at the P and L-lists to see what is going on...

ULTIMETER-II INTERFACE: To permit automatic weather station reporting, APRS includes an optional serial interface to the ULTIMETER-II home weather station.

(I offered to develop one for DAVIS instruments, but they call their data proprietary and will not share it with HAMS). The optional APRS WX routine is activated by a separate validation number (\$9). Once activated, APRS accepts the serial data output of the ULTIMETER-II and puts the information in your stations position/weather packet automatically for unattended weather reporting. (If you have a different home weather station that has a serial data output, and can convince me that it is worth the effort and widespread in the HAM community, let me know.) The ultimeter comes in two configurations which are not distinguishable by the user. One version outputs wind in MPH and the other in KPH. The user display can select either units, but the serial output is always the same. The difference is that the MPH units begin each line with a * while the KPH units begin each line with the # sign. In version 4.05, APRS recognizes this difference and converts the # units to MPH by dividing by 1.6.

RAIN VALUES: In the Ultimeter-II, two rain count accumulators are maintained. These are both incremented every time the rain gage clicks. The normal gage clicks every tenth of an inch of rain. A special order gage clicks every one-hundredth of an inch. In version 4.05 APRS asks you which gage you have so that all on the air reports are in tenths of an inch. Since the U-II values only have meaning if everyone knows when they were last reset, APRS keeps a running accumulation every 10 minutes for the last hour so that it

can compute and transmit only the difference in rain for the last 60 minutes. This way the rain reading has some meaning without prior knowledge by all stations receiving it. This rain/hour is intended for severe storm watches and other interest in real-time conditions. A reading of /R12 means that 1.2 inches fell in the last hour. After 60 minutes, this value will return to zero.

After my first heavy rain fall, I came home a few hours later and of course, the RAIN/HOUR report was then showing 0, since more than an hour had passes since the last rain! Obviously, this RAIN/HOUR is only good for skywarn, so I added a Precipitation field that shows the RAIN/DAY. This satisfies the curiosity of the casual APRS stations that just want to see how much rain we had during the last 24 hours. A reading of /P16 means that 1.6 inches have fallen since the same hour yesterday. The format we are now using looks something like this:

```
.../LAT/LONG/CSE/SPD/Txxx/Dxxx/Rxx/Pxx/Bxxx/free text comments...(auto)
```

Where CSE and SPD show the wind conditions
/T and /D are temperature and DewPoint
/R and /P are Rain per hour (tenths) and Rain/day (tenths)
/S is Snow per day (in INCHES) replaces Rain field
/B is barometric pressure in inches (ignoring the leading 2 or 3)
(auto) means it is an automatic report and therefore is current.
Any field not available is not included

With the WX interface enabled, the normal APRS decaying of position/wx reports still holds as long as nothing changes (except the wind). This way, redundant WX reports do not cloud the channel. If any value, Position, temperature, rain, barometric pressure, or comments change, then the periodicity is reset to the value set in the alt-SETUP-POsrate command. Since the wind is the most changing parameter, in version 5.9d I added the WX-WIND command to allow you to set a Wind threshold. Whenever the wind is above that threshold, the reporting period is also reset to the POsrate value. Nominally, you might want to set the POsrate value to about 4 minutes or so. This way, during changing WX conditions, or wind speeds above your threshold, the WX is reported every 4 minutes. Otherwise, the period rapidly decays back to the maximum APRS delay period (default is 15 minutes). For a weather station, you might want to change this MaxPeriod to about 10 minutes so that stations in the net get at least 6 wx reports per hour. To change this value, you must use a DOS editor to change it in your CFGxxx file. You will find it listed as 750, Maximum time period between packets. (750 seconds = 15 minutes). Of course, a WX/position report will be transmitted by the APRS station at anytime, in response to an APRS query; either an ALL NET Query, ?APRS, or a Wx only Query, ?WX, or a one station Query (by sending ?APRS in a message).

SERIAL INTERFACE CABLE: Peet Bros sells a serial interface cable with a DB-25 connector to RJ-11. (Note, this is a DB-25, not a DB-9). Since the ULTIMETER-II has no negative supply, a 5 K pull-down resistor is added to the DB-25 connector between Pins 2 and 3. This uses the -5 or -12 volts on the TXD line to bias the RXD line. When I plugged in a standard phone line connector to the ULTIMETER-II serial data output (unmarked connector on their junction box, or side of the Display unit), I found the data output on the green and black wire of the RJ-11. Black is data ground, and green was RXD. I do not know if the wire colors are standard but they would be either 1 and 3, or 2 and 4 depending on which side is up, and the ground is the one at the end. The Peet Bros cable includes transient protection and RF filtering to protect your computer as well as the bias resistor. Remember, the anemometer is like an antenna, high in the air. It can radiate RFI and take lightning charges...

REMOTE ULTIMETER-II OPERATION: There are two ways to combine a TNC and U-II for stand-alone remote operation. One uses the new features in the PACCOMM TNC to periodically transmit a WX report, and the other permits APRS stations to interrogate the WX conditions remotely. Here's how:

PACCOMM: Simply program the PACCOMM GPSSTRING parameter to recognize the * or # character instead of the usual GPS formats. Then set LOC to every 600 and GPS ON and the TNC will load the WX report into the TNC LText and transmit it once every 10 minutes. Also SET ECHO off! This is because the U-II uses a 10k resistor on the TXD line to bias the RXD line. If the TNC is echoing the U-II data, then total garbage results! (Thanks to Jeff, KD4GOE in Mobile, ALA for figuring that one out!)

OTHER TNC:

- 1) Install the U-II and a TNC at the remote site. Install a data switch so that U-II data is only input to the TNC when the TNC is connected by

- either wiring to the CONNECTED LED or to the DCD line if implemented
- 2) Place the TNC location in the BText using the usual APRS fixed format with the WX () symbol: !LLmm.xxN/LLmm.xxW_Remote U-II WX station...
- 3) If the TNC is also serving as a WIDE area APRS digi, place the word WIDE at the beginning of the comment field so that it shows up in green, and include a note that WX is available. Set MYA WIDE. Set your UNPROTO path to UNproto APRS via WIDE,WIDE... (assuming there are other WIDEs nearby)
- 4) Set LFIgnore ON. Set CHECK to 6 and AX25 off so that the WX connection will time out after 60 seconds.

At this point, any station connecting to the TNC will get the short ULTIMETER 15 character weather strings as long as they are connected. The following changes were made to APRS so that the connected station and all OTHER monitoring stations could see the data.

- a) APRS now looks for the U-II data (even if not transmitted to APRS) so everyone on frequency sees the WX displayed, although it is being transmitted via a CONNECTION to only one station.
- b) The station that connected to the TNC has to be able to see the data also. To enable this, he must first turn MCON ON so that he can monitor while connected, second, he must escape out of the APRS TALK mode so that APRS can process the data. In 5.00 you can use the alt-X key instead of ESC to return to APRS. Alt-X will leave your connection intact instead of forcing a Disconnect as it usually does. This feature is not documented anywhere else, since it only is useful here for WX.
- c) As long as you are connected to the remote TNC, the U-II data will be transmitted about once every 5 seconds.

Since the remote site can also be a WIDE area digipeater, it should show the WX circle symbol, but it will be GREEN to indicate it is also running with the ALIAS of WIDE. Whenever U-II data is transmitted, APRS will overwrite the digipeater position with the Ultemeter-II WX/posit report. The last WX heard will remain in the P-list and on the screen until the next BText is transmitted by the DIGI TNC.

We are encouraging the Manufacturer of the Ultemeter to make a HAM/TNC mod so that the U-II can be connected to a remote TNC and it will only output WX data once every 6 minutes or so. If the TNC is placed in the CONVERSE mode, these short WX reports will be transmitted. This type of operation will automatically update all APRS users of all remote site Weather conditions on a periodic basis. Until this new device is available, however, the system described above will work and will actually provide a more responsive display of short term weather conditions while someone is connected.

DATA LOGGING: The POSITION FILTER normally causes APRS to NOT save duplicate position reports that are within 80 yards of a previous report. When this filter is toggled OFF, it reduces this filter range to 20 yards AND enables all WXstation logging. In this mode, all WEATHER station reports are saved in a track history file. All over-the-air reports are only received once every 10 minutes, but your own report will be saved at the rate set by the Set-Pos-Rate command.

AUTOWX.EXE: This is a program written by Les, N5KOA to also interface the U-II to a TNC with a PC. It allows a direct connections for WX info, it does WX beacons in APRS format, and allows continuous logging of WX data to a binary file just like the U-II ULTIITSR program. I have not used nor tried this program. See Les's documentation in the AUTOWX.DOC file (in README directory)

FINAL NOTES: Since the WXstation option is always updating your outgoing position report, this makes it impossible for a WX station to report a beam heading during a Direction Finding evolution. If you use the BEAMHEADING command to enter a beam heading on a Fox or Jammer, then your WX station is disabled. To restore your WX station, restart the program.

\$\$\$ The ULTIMETER-II is available from PEET Bros 1-800-USA-PEET (872-7338) for \$179 plus \$20 for their Serial interface cable and \$60 for the optional rain guage (self emptying, reads in 0.1 inches) plus shipping of \$8.25. (For APRS, you don't need their \$40 software but it is a good package for doing the usual home WX logging and analysis) See adds in QST, CQ, Popular Mechanics, etc... (these were 1993 prices)

\$ The optional APRS registration for the ULTIMETER-II is available from the author for \$9 and may be ordered with APRS or as an option later.

22. [APRSSIG:38] Re: WX Data

From: kf5mg@kf5mg.ampr.org
Date: Thu, 5 Jan 95 14:46:49 cst
To: aprssig@tapr.org
Message-ID: <9501052050.AA0593@mgos2.ampr.org>
Rendered body type: text/plain

> I will get you the exact format so that you can do this..
>
> It would include your lat/lon, station type of Weather which is the
> underscore charcter, and then the weather data, yes, unknown data would be
> put in as zeros..
>
> Keith Sproul

Thanks. I've got the data format (with the underscore character) but I didn't know if an unknown wind speed and direction should be reported as 000 or not. 000 for wind speed and direction are valid for calm days. Seems like it might be hard to figure out who's got Wind Speed equipment on a calm day and who doesn't have the equipment. Now a negative wind speed could flag the data as being invalid. Wonder what APRS would do with a negative wind speed?

```
73's de Jack - kf5mg
Internet      - kf5mg@kf5mg.ampr.org          - 44.28.0.14
              - kf5mg@metronet.com           - work (looking for)
PBBSnet       - kf5mg@kf5mg.#dfw.tx.usa.noam - home (817) 488-4386
+=====+
+                D.A.M. - Mothers Against Dyslexia          +
+=====+
```

23. Re: [APRSSIG:31] Query on documentation

From: David Hansen <dwhansen@panix.com>
Date: Thu, 5 Jan 95 18:25:18 EST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.0.789348318.dwhansen@panix.com>
Rendered body type: text/plain

Bernard:

Greetings... Have you gotten the APRS software? APRS is just a program which connects the elements of a map with a packet position location system. The packets contain the call and position of the station. These positions are then shown on the map. If you had a GPS receiver connected to a laptop and a TNC/Radio, you could be seen moving on the map. Here in the northeast NYC area there are quite a number of users, alas, non of us move and looking at the map becomes quite a bore. I'm sure this will change as more users come aboard and they bring their \$\$\$ along.

I am also a sailor, I repaired a Pierson 26 and spend time out on the water. I leave her in the water during the winter and have gone out in Jan and Feb.

I am a retired New York City Police Officer, so I have a little time on my hands now and then. I am 39 years old and unfortunately had a little ticker trouble which forced me to retire. I take it easy.

Be well...Dave N2LZX

24. Re: [APRSSIG:31] Query on documentation

From: Kent Larson <kl Larson@access.digex.net>
Date: Fri, 6 Jan 1995 07:22:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950106071642.21512C-100000@access4.digex.net>
Rendered body type: text/plain

Hello Bernard,

The best thing to do is get the program zip files and go through the doc. You can ftp the Mac version from ftp.ucsd.edu hamradio/packet/tcpip/incoming. I think you will find a dos version in the same location, or close by. If not, you can download the latest version from the Frequency Forum BBS, 703-207-9622.

73,

Kent

On Thu, 5 Jan 1995 bjooseph@industry.org wrote:

>
> In order to get up to speed quickly, I'd like to obtain printed

```

> information on what APRS is.
>
> I'm a retired physicist, a life-long sailor, and a QCWA-old, extra class
> ham, so I should understand what's going on. Yet, everything I've read
> on the subject in current ham literature seems exceptionally trivial.
> Can somebody point me in the right direction?
>
> - - - - -
> Bernard W. Joseph, K8LIX      Internet: bjooseph@industry.org
> (810) 468-5869                AX.25: k8lix@n8eqd.#semi.mi.us.noam
> Avoid execrable gender-circumlocutions: use mafe.
>
> ---
> □ SLMR 2.1a □
>

```

25. APRS Protocol Enhancement

```

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Fri, 6 Jan 1995 08:37:18 -0500
To: aprssig@tapr.org
Cc: ablock@nubis.rutgers.edu, dalpert@merle.acns.nwu.edu, daxenos@bu.edu,
    "David P. Worrall" <70214.2530@CompuServe.COM>, Emmet2@aol.com,
    heyu@aol.com, jan@archimedes.chinalake.navy.mil,
    kb2ear@kb2ear.overleaf.com, rbarris@quicksilver.com,
    sdimse@umbio.med.miami.edu (Steven S. Dimse), skou@inel.gov,
    thayes@hardees.rutgers.edu, tstader@aol.com, wolft@dbisna.com,
    wpmichel@srp.gov, ka6eyh@muncey.com, wannamaker@macnet.vpharm.com,
    kc6rol@amsat.org, 72170.30@compuserve.com, delta2@infi.net,
    castonj@ireq.hydro.qc.ca, lipson@ctobbs.com, rewing@mitre.org,
    DwainM7367@aol.com, "Joe Moell" <joemoell@cup.portal.com>,
    gpotter@collabra.com, 74736.3171@compuserve.com,
    Richard H Inacker <inacker@pogo.den.mmc.com>, Sam_Lipson@Berlex.Com,
    GregNeil123@aol.com, ken@spacetime.mv.com,
    philkeys@olympus.net (Phil Keys), Dick Mead <mead@ucs.usc.edu>,
    rtm@Newton.apple.com (Bob Martin)
Message-ID: <9501061337.AA14572@peabody.sct.ucarb.com>
Rendered body type: text/plain

```

APRS Enhancement.

Bob Bruninga (WB4APR) called me yesterday about a new feature he was implementing in the APRS protocol. This was a feature that he and I had discussed quite awhile back, but he had not finalized yet.

This new feature is something that I call SELECTIVE AREA QUERY. In the normal APRS protocol, you can send a QUERY to EVERYBODY which is:

?APRS?

You can also send a query to an INDIVIDUAL station by sending the same string as a MESSAGE to that station.

The new feature is the ability to send a QUERY to selected AREA and have ONLY those stations that fall within that area respond. The format of this new query is:

```

?APRS?<lat>,<long>,<dist>
?APRS?000.00,0000.00,0000
?ARRS?040.00,-104.00,0050

```

This example requests all stations within 50 miles of 40N 104W. The Lat and Long is in plus/minus decimal degrees and the distance is in miles. When a station sees this query, it determines if it meets the distance qualification, and if so, responds with a normal position report. If it is outside of the distance criteria, it simply ignores the query. Another nice thing about this query is that it is fully backward compatible since the older versions of APRS and MacAPRS will simply ignore what is after the ?APRS? and respond anyway.

I have not seen the implementation of this on the DOS program yet, but it involves using the cursor to move to the center of the region you want to query, selecting a distance, again with the cursor, then the command will get sent.

On the Mac version, this is done by holding down the Control-Key, and simply Click-Drag with the mouse from the Center of the region you want out to the radius you want. The program displays a dynamically changing circle showing the area covered, also showing the miles in the status bar at the bottom of the screen. When you release the mouse, the query command gets sent.

On the RECEIVING end, I display the queried area by drawing the appropriate circle on the map whenever one of these queries is received. If the query affects you, you hear a radar-sounding PING indicating that you have been queried. We have already had this up on the air and found it to be quite neat and fun.

The new version of MacAPRS that includes this is MacAPRS 1.2.1 and is up on ftp.ucsd.edu in the /hamradio/packet/tcpip/incoming directory.

Keith Sproul, WU2Z

Keith Sproul	Amateur Radio: WU2Z
Union Carbide Corp	Home Address:
PO Box 670	698 Magnolia Road
Bound Brook, NJ 08805	North Brunswick, NJ 08902-2647
Work: 908 563-5389	akasbb1@peabody.sct.ucarb.com
Fax: 908 563-5035	Packet Radio: wu2z@kb4cyc.nj.usa
Home: 908 821-4828	AppleLink: Sproul.K

26. Re: [APRSSIG:31] Query on documentation

From: Steve Schwarm <schwarm@spectre.mitre.org>
Date: Fri, 6 Jan 1995 10:40:25 -0500
To: aprssig@tapr.org
Message-ID: <199501061540.KAA14354@spectre.mitre.org>
Rendered body type: text/plain

I did a talk at a ham fest on how it works and I'd be glad to mail you a copy of the slides. They were done with Power Point. I could send you a post script output, the power point file uuencoded or paper copy by the post office.

Stephen(Steve) Schwarm, W3EVE
Principal
The MITRE Corp.
202 Burlington Rd MS B155
Bedford, MA 01730
(617)271-4600
FAX: (617)271-4686
Schwarm@mitre.org
Packet: W3EVE @ K1UGM.#EMA.MA.USA.NA

27. Re: [APRSSIG:35] Re: Query on documentation

From: Steve Schwarm <schwarm@spectre.mitre.org>
Date: Fri, 6 Jan 1995 10:54:04 -0500
To: aprssig@tapr.org
Message-ID: <199501061554.KAA14418@spectre.mitre.org>
Rendered body type: text/plain

I did a presentation at the Boxboro Ham Fest on how APRS works and I'd be glad to send the slides to the group. I could send a post script file or a uuencoded, zipped power point file. As a last resort I can send paper copies. Please send an SASE.

Stephen(Steve) Schwarm, W3EVE	
Principal	
The MITRE Corp.	Home:
202 Burlington Rd MS B155	30 Hayden Woods
Bedford, MA 01730	Wrentham, MA 02093-1282
(617)271-4600	
FAX: (617)271-4686	
Schwarm@mitre.org	Packet: W3EVE @ K1UGM.#EMA.MA.USA.NA

28. U.K. N.G.R.

From: pete@bearnnet.demon.co.uk (Peter Baston)
Date: Fri, 06 Jan 1995 19:44:50 GMT
To: aprssig@tapr.org
Message-ID: <255@bearnnet.demon.co.uk>
Rendered body type: text/plain

Hi all !

My first version of APRS was version 5.9cn, which I got from G0MAM, the RSGB's Emergency Communications Officer. This version displayed U.K. National Grid Reference as well as Lat/Long in the top left of the screen, only when the cursor is

in the UK area.

I then got hold of version 6.2b (the latest) from the ARN BBS. I note that this version no longer displays NGR.

Does anybody know what happened to the NGR ? Was 5.9cn maybe a special version for the UK ?? I see no mention in the readme files.

P.S Hi Keith, WU2Z, I used to be a neighbour of yours (East Brunswick) I think we may have spoken on the Oldbridge repeater once ?

Pete GW0PJA / AA2DZ.

--

Pete Baston, Clwyd, North Wales, U.K.

29. Re: [APRSSIG:35] Re: Query on documentation

From: mmunster@qualcomm.com (Marvin Munster x5388)
Date: Fri, 6 Jan 1995 12:17:55 -0800
To: aprssig@tapr.org
Message-ID: <ab33547606021004df74@[129.46.12.181]>
Rendered body type: text/plain

I asked a similar question when this list first came alive. I asked: What is APRS and how could I use it? What can we do with it? Is it practice? Is it hard to implement? I have an Icom GPS receiver, can I use this to get started? What kind of maps does it produce? Are there software maps that this will interface to? ...and so on into the night... I had one response with out much detail, other than it was great. I also would like the information. Is there a FAQ somewhere? I would like to be part of the packeteers that gets this thing going.

SOMEONE - TELL US ABOUT IT.

Marvin. WB6PKK
mmunster@qualcomm.com

At 11:36 AM 1/5/95, david kelly wrote:

>> In order to get up to speed quickly, I'd like to obtain printed
>> information on what APRS is.

>>

>> I'm a retired physicist, a life-long sailor, and a QCWA-old, extra class
>> ham, so I should understands what's going on. Yet, everything I've read
>> on the subject in current ham literature seems exceptionally trivial.
>> Can somebody point me in the right direction?

>>

>> - - - - -

>> Bernard W. Joseph, K8LIX Internet: bjooseph@industry.org

>

>You've hit the nail on the head Bernard, "...seems exceptionally trivial."

>APRS seems exceptionally trivial. I subscribed to this list to be
>enlightened but so far I'm underwhelmed.

>

>Of course with a message like this I'm sure to be flamed. Please share
>non-trivial flames with the list so we'll all be enlightened.

>

>73, David N4HHE

>dkelly@nebula.tbe.com

30. Re: [APRSSIG:35] Re: Query on documentation

From: mmunster@qualcomm.com (Marvin Munster x5388)
Date: Fri, 6 Jan 1995 15:58:58 -0800
To: aprssig@tapr.org
Message-ID: <ab33898c0d0210045802@[129.46.12.181]>
Rendered body type: text/plain

Is there a FTP site that this software can be obtained?

Marvin Munster - WB6PKK
mmunster@qualcomm.com

>> In order to get up to speed quickly, I'd like to obtain printed
>> information on what APRS is.

>>

>> I'm a retired physicist, a life-long sailor, and a QCWA-old, extra class

>> ham, so I should understand what's going on. Yet, everything I've read
>> on the subject in current ham literature seems exceptionally trivial.
>> Can somebody point me in the right direction?
>>
>> - - - - -
>> Bernard W. Joseph, K8LIX Internet: b joseph@industry.org
>
>You've hit the nail on the head Bernard, "...seems exceptionally trivial."
>APRS seems exceptionally trivial. I subscribed to this list to be
>enlightened but so far I'm underwhelmed.
>
>Of course with a message like this I'm sure to be flamed. Please share
>non-trivial flames with the list so we'll all be enlightened.
>
>73, David N4HHE
>dkelly@nebula.tbe.com

31. Re: [APRSSIG:54] Re: Query on...

From: DJVelez@aol.com
Date: Fri, 6 Jan 1995 20:12:21 -0500
To: aprssig@tapr.org
Message-ID: <950106201219_973395@aol.com>
Rendered body type: text/plain

>You've hit the nail on the head Bernard, "...seems exceptionally trivial."
>APRS seems exceptionally trivial. I subscribed to this list to be
>enlightened but so far I'm underwhelmed.
>
>Of course with a message like this I'm sure to be flamed. Please share
>non-trivial flames with the list so we'll all be enlightened.
>

Hey guys, get a copy of the software and read the allabout.txt...this will
give you an overview. APRS is being used for entertainment, public service
and emergency planning!!! There's so much to do with it...just like our
hobby! Sorry this is short, but can we answer a specific question???

Dan N4WZR

32. Re: [APRSSIG:55] Re: Query on...

From: dkelly@tomcat1.tbe.com (David Kelly)
Date: Fri, 6 Jan 95 22:05:03 -0600
To: aprssig@tapr.org
Message-ID: <9501070405.AA07566@tomcat1.tbe.com>
Rendered body type: text/plain

> Hey guys, get a copy of the software and read the allabout.txt...this will
> give you an overview. APRS is being used for entertainment, public service
> and emergency planning!!! There's so much to do with it...just like our
> hobby! Sorry this is short, but can we answer a specific question???
>
> Dan N4WZR

I will do that. Again. Which has the best documentation, DOS or Mac?

--
David Kelly, N4HHE, n4hhe@amsat.org, dkelly@nebula.tbe.com

Democracy is a government where you can say what you think
even if you don't think.

33. Re: [APRSSIG:51] Re: Query on documentation

From: Emmet2@aol.com
Date: Sun, 8 Jan 1995 09:59:19 -0500
To: aprssig@tapr.org
Message-ID: <950108095918_2383858@aol.com>
Rendered body type: text/plain

<<
I did a presentation at the Boxboro Ham Fest on how APRS works and
I'd be glad to send the slides to the group. I could send a post
script file or a uuencoded, zipped power point file. As a last resort
I can send paper copies. Please send an SASE.
>>

Why don't you just put it at a FTP site that has anonymous access. Now even
AOL gives FTP access ... It would save us (or at least me) from DLing a long
file unless I want it).

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- = Emmet2 (America Online)
- = emmet2@aol.com (internet)
- = N1MIE@N10KK.CT.USA (packet)
- = 1:320/301 (fidonet)

34. subscribe

From: RRR0SS@aol.com
Date: Sun, 8 Jan 1995 22:27:38 -0500
To: aprssig@tapr.org
Message-ID: <950108222731_2976789@aol.com>
Rendered body type: text/plain

subscribe

35. Re: [APRSSIG:50] Re: Query on documentation

From: Kent Larson <klaron@access.digex.net>
Date: Mon, 9 Jan 1995 04:22:16 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950109041923.19548A-100000@access4.digex.net>
Rendered body type: text/plain

Hi Steve,

Me and some others are planning on doing a few dog and pony shows in the Northern Virginia area and would like to look at your slides if you don't mind. Uuencoded Power Point files to me would be fine. I need to learn a little more about that type of encoding.

Thanks,

Kent

On Fri, 6 Jan 1995, Steve Schwarm wrote:

> I did a talk at a ham fest on how it works and I'd be glad to mail you a
> copy of the slides. They were done with Power Point. I could send you a
> post script output, the power point file uuencoded or paper copy by the
> post office.
>
> Stephen(Steve) Schwarm, W3EVE
> Principal
> The MITRE Corp.
> 202 Burlington Rd MS B155
> Bedford, MA 01730
> (617)271-4600
> FAX: (617)271-4686
> Schwarm@mitre.org
> Packet: W3EVE @ K1UGM.#EMA.MA.USA.NA
>
>

36. Re: [APRSSIG:59] Re: Query on documentation

From: Greg Jones <gjones@tenet.edu>
Date: Mon, 9 Jan 1995 03:55:08 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199501090955.DAA10676@Alice-Thurman.tenet.edu>
Rendered body type: text/plain

Why don't you leave them on the current TAPR ftp area (until the move in the next few weeks). anonymous login to TCET.UNT.EDU. Under tapr/UPLOAD

When we make the move, we can then put them in the APRSSIG area on TAPR.ORG. Each of the SIGs will have an ftp area on the new system.

Cheers - Greg

President -- Tucson Amateur Packet Radio Corp

TAPR Office (817) 383-0000 | Internet: gjones@tenet.edu

According to Kent Larson:

>
> Hi Steve,

>
> Me and some others are planning on doing a few dog and pony shows in the
> Northern Virginia area and would like to look at your slides if you don't
> mind. Uuencoded Power Point files to me would be fine. I need to
> learn a little more about that type of encoding.
>
> Thanks,
>
> Kent
>
> On Fri, 6 Jan 1995, Steve Schwarm wrote:
>
> > I did a talk at a ham fest on how it works and I'd be glad to mail you a
> > copy of the slides. They were done with Power Point. I could send you a
> > post script output, the power point file uuencoded or paper copy by the
> > post office.
> >
> > Stephen(Steve) Schwarm, W3EVE
> > Principal
> > The MITRE Corp.
> > 202 Burlington Rd MS B155
> > Bedford, MA 01730
> > (617)271-4600
> > FAX: (617)271-4686
> > Schwarm@mitre.org
> > Packet: W3EVE @ K1UGM.#EMA.MA.USA.NA
> >
> >
>

37. Running APRS

From: Gregory.R.Laborde@jpl.nasa.gov (Gregory R. LaBorde)
Date: Mon, 9 Jan 95 10:08:01 PST
To: aprssig@tapr.org
Message-ID: <9501091808.AA27442@kilroy.Jpl.Nasa.Gov>
Rendered body type: text/plain

OK, here is my situation. I use a Kantronics KPC-9612 with KaGOLD software on a 386DX/40. I usually leave my computer on with KaGOLD running. When I exit KaGOLD, the TNC is left in host mode for a fast startup when I restart KaGOLD.

What do I need to do to run APRS without scrambling my TNC's parameters so that I can go between the two. I _can_ set KaGOLD to put the KPC-9612 in command mode when it exits.

I am interested in APRS, but not at the cost of confusion in my main operating mode.

Also, can APRS be run on an HP200LX (with a KPC-3)?

-Greg

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

38. Re: [APRSSIG:60]Running APRS63b

From: mmunster@qualcomm.com (Marvin Munster x5388)
Date: Mon, 9 Jan 1995 14:32:42 -0800
To: aprssig@tapr.org
Message-ID: <ab376998180210046d28@[129.46.12.181]>
Rendered body type: text/plain

I downloaded all of the files from the FTP site and unzipped them. When I ran them, the program started, and I filled in all of the questions. When completed, it locked up and beeped at me. It said -Bad #! Check your APRS subdirectories.

Does anyone know anything about this? I am not sure where to go from here. The version is APRS63b. APRS62b acted the same way.
Thanks in advance.
Marvin - WB6PKK
mmunster@qualcomm.com

39. Re: [APRSSIG:62] Re: unning APRS63b

From: janderson@ram.net
Date: Mon, 09 Jan 95 18:55:18 EST
To: aprssig@tapr.org
Message-ID: <02074.15021591@RAMail>
Rendered body type: text/plain

>Does anyone know anything about this? I am not sure where to go from here.
>The version is APRS63b. APRS62b acted the same way.
>Thanks in advance.
>Marvin - WB6PKK
>mmunster@qualcomm.com

If you use PKUNZIP -d APRSXXX.ZIP it will make its own subdirs and put the files in the right place.

MD APRS
CD APRS
PKUNZIP -d <path>APRS63B.ZIP

This should do it...

Jack

N4ULS@ram.net

40. APRSSIG Update

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Tue, 10 Jan 1995 13:20:57 -0500
To: aprssig@tapr.org
Message-ID: <9501101822.AA10150@peabody.sct.ucarb.com>
Rendered body type: text/plain

The TAPR APRS SIG is less then a month old. It has a subscriber list of just about 100 people, a couple of which are actually 'groups' of people at other sites.

Since the introduction of this SIG, there has been over 60 messages, Not bad for a group that just started...

As of yesterday, we now have Bob Bruninga, WB4APR, on this list too. I would like to welcome him to the TAPR APRS SIG. Bob is new to Internet E-Mail so I am not going to give his address out until he gets a little more comfortable with accessing his system.

Bob will be making version announcements etc via the APRS-SIG list server and will try to answer questions as they come in. At least for the moment, I do not expect him to check his E-Mail everyday, so don't be surprised if you don't get an immediate response from him.

I would like to thank TAPR for their enthusiastic support for this SIG and their rapid response to the couple minor problems that we have had with the ListServer.

I would also like to announce that I will be at the TAPR general meeting in March in St Louis, MO and will be presenting a paper about some of the enhancements to and interesting applications of APRS.

I will also be at the APRS/Skywarn/WX-Balloon mini-conference in Chicago on SuperBowl Sunday. (January 29) This is at the Wheaton Hamfest in Villa Park IL (Western suburb of Chicago). It is being held at the Odeum in Villa Park.

If you are going to be at either of these events, please look me up.

Keith Sproul, WU2Z, TAPR APRS SIG Chairman

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: akasbb1@peabody.sct.ucarb.com
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb4cyc.nj.usa
Work: 908 563-5389	AppleLink: Sproul.K
Fax: 908 563-5035	Chairman ACG-NJ Mac Users Group

41. Re: [APRSSIG:62] Re: unning APRS63b

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
 Date: Tue, 10 Jan 1995 14:56:04 -0500 (EST)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950110145038.7721E-100000@greatlakes.nadn.navy.mil>
 Rendered body type: text/plain

I suspec the problem is that he tied to use COM3-4. Version 63b was my firrst attempt at supporting COM3-4. I did it the only way permissible under Qbasic, and that was to simply POKE the hardware location of COM3 into the BIOS location for COM1 (similar for 4 & 2). I have all of my serial devices swithc selectible from COM1, so I have no way of testing this approach. I assume that for this to work, that the user must have set the SAME interrupts for both COM3 and COM1 or for COM4 and COM2.

Thats why the SELECT PORT prompt reads: COM (1, 2, or 3/4 maybe)
 I dont een have enuff room in APRS to follow up with an additional line of explanation! (When I tear apart the code and rebuild it, I should be able to find some more room)!

On Mon, 9 Jan 1995, Marvin Munster x5388 wrote:

> I downloaded all of the files from the FTP site and unzipped them. When I
 > ran them, the program started, and I filled in all of the questions. When
 > completed, it locked up and beeped at me. It said -Bad #! Check your
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 > Does anyone know anything about this? I am not sure where to go from here.
 > The version is APRS63b. APRS62b acted the same way.
 > Thanks in advance.
 > Marvin - WB6PKK
 > mmunster@qualcomm.com
 >
 >
 >

42. Windows version of APRS?

From: "Todd Little, Pegasus" <little@nuts2u.enet.dec.com>
 Date: Tue, 10 Jan 95 17:02:37 EST
 To: aprssig@tapr.org
 Cc: little@nuts2u.enet.dec.com
 Message-ID: <9501102151.AA28733@us2rmc.zko.dec.com>
 Rendered body type: text/plain

Has there been any discussion/plans/whatever of a Windows based version of APRS? I personally like to use my computer for lots of things and having it tied up with APRS makes it a bit of a pain. Also I usually run Windows NT and although APRS runs in a DOS window under NT, it requires a full screen window as I'm guessing it does direct video access of some sort.

73,
 Todd
 N9MWB

43. Re: [APRSSIG:65] Re: unning APRS63b

From: mmunster@qualcomm.com (Marvin Munster x5388)
 Date: Tue, 10 Jan 1995 16:20:58 -0800
 To: aprssig@tapr.org
 Message-ID: <ab38d3ea1d0210048c58@[129.46.12.181]>
 Rendered body type: text/plain

Thanks to everyone for their help. I have solved the problem. Just like everyone else, I was in a hurry to view the product, and didn't read all of the documentation that is provided. In an obscure little file there is a statement that when unzipping the file, be sure to use the -d parameter. This will restore all of the needed subdirectories in their proper places. Now I know. I am still having a little trouble understanding the "demo" documentation. It doesn't all work as advertised, or again, I havn't found all the little clues that come from behind the fifth door on the left, on the third level, in the great hall of DOOM.

Thanks again.
 Marvin - WB6PKK

>I suspec the problem is that he tied to use COM3-4. Version 63b was my

>first attempt at supporting COM3-4. I did it the only way permissible
>under Qbasic, and that was to simply POKE the hardware location of COM3
>into the BIOS location for COM1 (similar for 4 & 2). I have all of my
>serial devices swithc selectible from COM1, so I have no way of testing
>this approach. I assume that for this to work, that the user must have
>set the SAME interrupts for both COM3 and COM1 or for COM4 and COM2.
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>Thats why the SELECT PORT prompt reads: COM (1, 2, or 3/4 maybe)
>I dont een have enuff room in APRS to follow up with an additional line of
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>able to find some more room)!

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>On Mon, 9 Jan 1995, Marvin Munster x5388 wrote:
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>> completed, it locked up and beeped at me. It said -Bad #! Check your
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>>
>> Does anyone know anything about this? I am not sure where to go from here.
>> The version is APRS63b. APRS62b acted the same way.
>> Thanks in advance.
>> Marvin - WB6PKK
>> mmunster@qualcomm.com
>>
>>
>>

44. Re: [APRSSIG:66] Windows version of APRS?

From: "Robert G. Mahoney" <robertgm@romulus.ncsc.mil>
Date: Tue, 10 Jan 1995 22:34:35 -0500
To: aprssig@tapr.org
Message-ID: <199501110334.WAA19867@romulus.ncsc.mil>
Rendered body type: text/plain

Todd Little, Pegasus asks, "Has there been any discussion/plans/whatever
of a Windows based version of APRS? I personally like to use my computer
for lots of things and having it tied up with APRS makes it a bit of a
pain. Also I usually run Windows NT and although APRS runs in a DOS
window under NT, it requires a full screen window as I'm guessing it
does direct video access of some sort."

I received OS2 WARP from Santa and loaded it about a week ago. Once
I figured out what the launch pad was all about the first thing I did
was to fly APRS version 6.2a in a DOS then later in an OS2 window.
APRS ran fine in both cases and I was able to minimize the window and
for 30 minutes I played the Windows 3.1 game of solitaire and cleaned
up my hard drive. The whole time I was tending to other business the
computer kept beeping in its different tones as APRS continued to
crunch the TNC inputs. I also continued to transmit reports periodically.
When I finished playing I opened up the APRS window and all the different
lists grew and new stations had been plotted. Everything looked great.
The bottom line is that as far as I can tell WARP worked great if you
don't want to have APRS dominate your computer. I have since repeated
the success with version 6.3b of APRS.

de WB8CXN/3 Bob Temporary Annapolis, MD

45. TNC-2 1.1.9 Firmware Announcement

From: Greg Jones <gjones@tenet.edu>
Date: Tue, 10 Jan 1995 23:44:39 -0600 (CST)
To: tapr-bb@tapr.org (TAPR-BB mailing), aprssig@tapr.org (APRS SIG)
Message-ID: <199501110544.XAA02398@Alice-Thurman.tenet.edu>
Rendered body type: text/plain

TAPR TNC-2 Release 1.1.9 Tuesday, January 10th, 1995

TAPR is proud to announce the release of version 1.1.9 for the TNC-2. 1.1.9
EPROMS with command booklet will be available from the office starting
January 10th, 1995. 1.1.9 will replace the current 1.1.8a being distributed
by TAPR.

Release 1.1.9 incorporates these new features:

- o - Modified P-Persistence
- o - Enhanced monitor mode filtering
- o - Support for Dallas Semiconductor RSmartwatchS (tm) socket

- o - NMEA beaconing mode
- o - CW identification in FSK using the onboard packet modem

And these changes:

- o - The pound sign ASCII character "#" is allowed in callsigns
- o - The "OUT" command installed in version 1.1.8 is removed
- o - In addition to identification at 9.5 minute intervals, the HID function transmits an identification packet upon incoming connect acknowledge, outgoing connect attempt success, disconnection, and cancellation of outgoing connect attempts.
- o - DWAIT is now applied to digipeated and non-digipeated packets
- o - Delay equivalent to the current DCD backoff time is applied after transmit release to prevent multiple transmissions with extremely small delays in between

NMEA Beacon Function

=====

TNC-2 now incorporates a dedicated mode enabling the broadcast of one or two NMEA version 2.00 (and compatible) sentences to the UNPROTO address. When placed in NMEA mode with a non-zero value in the NMEABCN parameter, the TNC broadcasts the most recently received sentences received from the attached NMEA talker on the radio link. No other outgoing transmissions are permitted with the exception of identification, beacon, CTEXT, and mailbox data (*if supported).

NMEA devices provide an ASCII output at 4800 baud, 8/N/1, consisting of one or more types of sentences containing various types of data. Most commonly these data contain navigation fixes. For example, the authorUs global positioning system receiver (Garmin model GPS-55AVD) generates sentences containing the receiverUs longitude and latitude (fix), time of the fix, groundspeed, waypoint data, and the like.

An example:

```
$GPRMC,034523,Y,02754.31,N,08023.03,W,1.5,035,031294,4,W*23<cr><lf>
```

Meaning:

R\$GPRMCS - Indicates the type of data (RMC-minimum recommended GPS sentence)
 034523 - UTC hh/mm/ss
 Y - data valid
 02754.31,N - longitude
 08023.03,W - latitude
 1.5 - groundspeed
 035 - Track made good over the ground (degrees true)
 031294 - date ddmmyy
 4,W - magnetic variation, West
 23 - checksum (ignored by the TNC)

(Note that this example sentence was not actually generated by the unit and the checksum is probably wrong)

Modified P-Persistence

=====

P-persistence is a channel sharing technique that has gained great favor in the TCP/IP world. A modified form of P-persistence It is now included in TAPR TNC-2 as an alternative to prioritized acknowledgements and DWAIT.

Modified P-persistence relies on two principles to achieve a more equitable sharing of the common frequency. First, when the TNC waits a random multiple of DWAIT after hearing another station before it transmits. The upper limit of the random value is user defined by the PERSIST parameter to prevent frequency monopolization by stations placing unusually heavy demands on the frequency, as with the case of a file transfer. Modified P-persistence increases the likelihood that a station with higher priority traffic can acquire the channel.

The second way modified P-persistence promotes channel sharing is by gradually increasing the wait time when the TNC executes retry transmissions.

Modified P-persistence as implemented in TNC-2 differs from standard P-persistence in that acknowledged retries do not cause the time delays to cumulate. After a retry is successfully acknowledged the TNC reverts to the shorter delay that assumes a perfect channel. Another difference is that the retry delay is applied only to connections on stream A.

Monitoring Improvement

=====

The TNC will examine the contents of each monitored packet for nonprinting ASCII characters and discard the entire packet if at least one is detected. Nonprinting characters means any ASCII character less than the space character except for BELL, LF, and CR, and the DEL character. The test occurs after masking off the high order bit. By setting MNONPRIN to OFF, and in concert with MNONAX25 OFF, the TNC will filter nearly all screen-garbage inducing monitored packets.

The 1.1.9 TNC-2 executable is (c) 1994 InfoMotion, Inc. All rights reserved.

TNC-2 firmware is provided "AS-IS" AND THE USER ASSUMES THE ENTIRE RISK OF UTILIZING THE FIRMWARE. TNC-2 FIRMWARE IS NOT INTENDED NOR IS IT PROVIDED FOR ANY PURPOSE, INCLUDING NAVIGATION, WHEN FAILURE OF THE FIRMWARE, OR HARDWARE, OR BOTH, MIGHT CAUSE BODILY INJURY OR LOSS OF PROPERTY.

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
Office: (817) 383-0000 * Fax: (817) 566-2544 * TAPR@TAPR.ORG

46. Ultimeter-II

From: <ROBERTST@BENNING-EMH1.ARMY.MIL>
Date: Wed, 11 Jan 95 08:33:25 EST
To: <aprssig@tapr.org>
Message-ID: <m0rS3Ck-0000TIC@dptspd.sat.datapoint.com>
Rendered body type: text/plain

In reading thru the documentation that comes with APRS one of the articles mentions using the Ultimeter and a TNC as a stand alone WX station. I hooked the TNC and Ultimeter up as stated and sure enough the Beacon contains data from the Ultimeter. Unfortunately the info is just a string of numbers similar to *0007600000000 or something thereabouts. When I use the WX option of APRS it works fine so I can only assume that APRS decodes this info into meaningful data. All this said and done how can you use the TNC and Ultimeter as a remote weather station if the Beacon Text does not contain the decoded WX info? I have also successfully used the AUTOWX program to transmit the weather data in an APRS accepted format however this requires a dedicated computer also. Hopefully I have overlooked something and someone can help me out.

47. Re: [APRSSIG:59] Re: Query on documentation

From: Steve Schwarm <schwarm@spectre.mitre.org>
Date: Wed, 11 Jan 1995 12:39:22 -0500
To: aprssig@tapr.org
Message-ID: <199501111739.MAA28863@spectre.mitre.org>
Rendered body type: text/plain

Here the presentation is. It is a uuencoded power point file. If you would like the post script let me know. You may use it for any not for profit activity.

Stephen(Steve) Schwarm, W3EVE
Principal

The MITRE Corp.

202 Burlington Rd MS B155

Bedford, MA 01730

(617)271-4600

FAX: (617)271-4686

Schwarm@mitre.org

Home:

30 Hayden Woods

Wrentham, MA 02093-1282

(508)384-7697

Packet: W3EVE @ K1UGM.#EMA.MA.USA.NA

```
begin 644 APRS.PPT
M"ZW>[0 , > ( "@ .8X 4 !_ @ & !!Z ! $
M-H 1V@ !': &8 $=H "8 8.@ 0 !C2
M &=( 9T@ 8 !G2 F &U( " ;Z@ & !QJ
M ! ',H =R@ !W* *6 '<H "8 H(@ (
M"BZ 8 *3H $ IF@ "J: *IH N( JF@
```

M)@ #8B @ -KH !@ W.@ 0 #>: .)H XF
M@ #6 #B: F 1?H " !&D@ & \$<2 ! 1W(
M !(<@ \$AR + " 2' ("8 !3>@ (%02 8 5) (
M \$!4\@ %7R 5? (V0 !5\@)@ &." @ 9
M !H !@ !DF@ 0 &3Z 9?H !E^@ #, &7Z F
M <KH " !S4@ & '/2 ! ! =#(!U,@ '4R
M +Z =3("8 " !&@ ((&R 8 @C(\$ " "D@
M (.2 @Y(PH "#D@)@ (^Z @ D%(!@ "0T@
M0)\$R DC("2,@ "P@)(R F G3H " "=T
M@ L)Y2 6 H1(!@ "A:@ P *'* H I,H #@
M "E:@ # "@ *9* F LG(& "S"@ % +2* M-H
M ;X "TV@)@ +02 @ 0&H !@ "\Z@ (+U* 4 0
M <H " ^&@ E +X: F P&H " #! @ & ,& " @
M P>(!0 "#8@ ,*R "4 PK("8 ## @ (,6:
M 2 QAH ! #&8@ &@ ,:B : QPH !H #'<@ -@
M ,?: ! (R+(\$ #)T@ 7@ ,K2 !> SSH "0 #-P@ \$
M \$@ ,Y2 B WIH 8 #?(@ # -\Z ' WWH P #?A
M@ \$ -^V W_8 \#@)@ # .!B J X)('A
M #A.@ -@ .,: " X_ 54X @ "P !P(# !
M@N#X./B,^P@*+ \$ 0\$! 0 " /_ !+2&\\$ "P/S@^(P(! HI 0 !
M 0\$! (_T \$M*F0 . 8(#@ 3@" ^%7XQOKK
M"? (@ D \$ P +S< _Z4 . 9 %H \$ 0
M# \$ & ' ! \$P @ /S]^,8'YPGO_) !
M _\ / ^E / _&0 !: " \$!&075T;VUA=&EC
M(%!A8VME=" !297!<G1I;F<@4WES=&5M#0U3=&5V92!38VAW87)M+" !7,T56
M10TR(\$]C=&]B97(@,3DY- , 1@ 0 P "(@ H \$ 0
M 6 ((! \$ #@ " !@ 0 ! 8 1@ < !
M "(1 6X , 2P ! %H '@ ! \$0%N # \$L
M !: !X %1\$!;@ P!+ \$ 6@ > X1 6X
M , 2P ! %H '@ \$ 0 " (0 ' _ "
M " Q @L#-</G0"9 & , \$ 0\$! 0 " /_ !+2;,
M\$! P/9P^F#^X 6@ 0 ! 0\$! (_T \$ #G_
M#@ 3 " _XWZ"@ES! ?8 @ , 0 _Z4 9
M %H * 0 # \$ & ')
M!@ " (0 ! #_ ! ' " \$*"10 !0
M H!"R\ \ 0 " + _ " \$ " "
MX/@X^(S[" HL 0 ! 0\$! (_T \$M+<00 (+ _.#XC @\$"BD! \$!
M 0\$ @ #_0 2TJ4 X "4@ . !. (#X5?C&^NL)
M\0_ !@ ? _%';@#_P!+ ! 6@ > ! " \$]V
M97)V:65W P (! " " "0 0 # 8 " <
M 0 @ _Z4 9 %H (! \$P @ /S]^,8'YPGO
M _\) ! _\ / ^E / _&0 !: # \$ " ?5&AI
M<R! I<R!N;W0@;7D@=V]R:PU4:&4@<V]F='=A<F4@=V%\$('=R:71T96X@86YD
M(&ES(&UA:6YT86EN960@8GD-0F] " (\$) I;FEN9V\$L(=%="-&%04B -5VAA=" !I
M<R! I=#\ -2&]W(&ET(&-A;B!B92!U<V5D#5=H870@>6]U(&YE960@=&\@=7-E
M(&ET#4A0=R! I=" !W;W)K<PU\$96U0 , GP 0 P !0 @ 8 \$
M 0 !# (\$@ ! \$ 2 " !@ 0 ! 8 GP <
M " !11 6X , 2P %H '@ N '0 &0
M \$!: !X %0 !T !D ! 6@ >
M Q1 6X , 2P %H '@ 340%N # \$L
M !: !X &%\$!;@ P!+ 6@ > U1 6X
M , 2P %H '@ \$40%N # \$L !: !X
M \$ T @ " \$!\&0 @!D 0\$! X< #@ \!"A,<
M # ! \$! \$! @ " _P !P
M# ! @N#X./B,^P@*+ \$ 0\$! 0 " /_ !+20\$ " "P/S@
M^(P(! HI 0 ! 0\$! (_T \$M* P . F(#@ 3@"
M ^%7XQOKK"?+_P 8 ' _P !1_VX _\ 2P 0 %H '@
M 0 M7:&%T(&ES(&ET/V # L \$ \$ + () ! ,
M !@ + !P ! "P#_I0 !D 6@ P \$
M3 " _/WXQ@?G">_P D ' _P _Z4 _\ 9 %H
M 0 0 0-!(&UE=&A09"!09B!B<F]A9&-A<W1I;F<@:6YF;W)M871I
M;VX@;VX@2&M('!A8VME="!N971W;W)K<PU0<FEM87)I;'D ('55960@=&\@
M<V5N9"!L;V-A=&EO;@U#86X@86QS;R!B92!U<V5D('10(' -E;F0@#6-0=7)S
M92!A;F0@<W!E960=-V5A=&AE<B!I;F90<FUA=&EO;@U4:&4@:6YF;W)M871I
M;VX@:7,@9&ES<QA>65D(&]N(&\$@;6%P(&]N(&\$@8V]M<'5T97(-5&AE(&EN
M9F]R;6%T:6]N&-A;B!B92!L;V=G960@86YD('!L87EE9"!B86-K(&QA=&5R
M"@ , ! P 0 P #P @ 8 \$ 0 !@ (\$@ ! \$
M 9P " !@ 0 ! 8 ! P < !P #Q1 6X , 2P
M %H '@ A0 '0 &0 \$!: !X &D !
MT !D ! 6@ > !% <@ 9 @ %H
M'@ 40 '(&0 (!: !X -%\$!;@ P!+
M 6@ > #-1 6X , 2P %H '@
M 7 % " (0 'P2 " 2H 5 %@\$*#@ 3
M & 1\$ " + _ ,
M \$ "X/@X^(S[" HL 0 ! 0\$! (_T \$M*6P0 (+ _.#XC @\$
M"BD! \$! 0\$ @ #_0 2TDN X ">@ . !. (#X
M5?C&^NL)0_ !@ ? _%';@#_P!+ ! 6@ > !
M \$DA0=R! I=" !C86X@8F4@=7-E9 , \$@ 0 0 ! (@ D \$
M P & ! (' \$ 2 / ^E &0 !: \$

M 1, (#_?C&!^<)[_ "0 ?_ #_I0#_P!D
M6@ !0 ! !1\$YE='0<FL@=&JP;VQ09WD@;6JN:710<FEN9PU3:&]W
M(&Q08V%T:6JN(&]F(' -T871I;VYS(&%C=&EV92!0;B!A(&9R97%U96YC>0U3
M<&5C:6%L(&5V96YT('1R86-K97(0;W)G86YI>F5R#5=I;&P<W5P<&]R="!A
M=710;6%T:6,@:6YT97)F86-E('=I=&@82! '4%,@<F5C96EV97(@9F]R(&Q0
M8V%T:6JN " !R97!0<G1I;F<-2&%V92!A(')E86PM=&EM92!A=710;6%T:6,@
M9&ES<&QA>2!09B!L;V-A=&E0;B!09B!K97D@=F5H:6-L97, #4)08700;6JB
M:6QE+U)6('1R86-K97(-075T;VUA=&EC86QL>2!R96-0<F0@=VAE<F4@>6JU
M('=E<F4@;VX@>6JU<B!V86-A=&E0;@, !1 0 !@ !P @ 8 \$
M 0 P (\$@ ! \$ (" !@ 0 ! (T @ 2
M \$ 0 7 (& ! \$ - " ! (0 ! 8 !
M1 < !P !Q1 6X , 2P %H '@ P0 '0
M &0 \$!: !X (%\$!;@ P!+ 6@ >
M \$U = 9 0 %H '@ ! 0 '0 &0
M \$!: !X %U\$!;@ P!+ 6@ > #1
M = 9 0 %H '@ > &P " (0 'P "
M "0 8 < '0\$*#B : 'P 0(
M " + , \$ ""X/@X^(S[" HL 0 ! 0\$!
M (_T \$M*[0 (+ _.#XC @\$"BD! \$! 0\$ @ #_0 2TA
M/ X ">@ . !. (#X5?C&^NL)\0_ !@ ?_ %'
M;@#_P!+ ! 6@ > ! \$DA0=R!I="!C86X@8F4@=7-E
M9 , \$@ 0 0 ! (@ D \$ P & ! (' \$ 2
M / ^E &0 !: % 1, (#_?C&!^<)[_ "0
M ?_ #_I0#_P!D 6@ !@ ! SE=E871H97(
M<F5P;W)T:6YG#7-U<'!0<G1S(')E<&]R=&EN9R!W96%T:&5R(&-0;F1I=&E0
M;@UC86X@8F4@875T;VUA=&EC('=I=&@86X@56QT:6UE=&5R+4E)#6-A;B!M
M86YU86QL>0 @<&QA8V4@<W10<FUS(&]N(&UA< U\$;7)E8W1I;VX@1FEN9&EN
M9PU3=&T:6JN<R!C86X@<F5P;W)T(&E87)I;F=S#7-09G1W87)E('=I;&P@
M<VA0=R!I;G1E<G-E8W1I;VX P #. ! \$ \$@ " !@ 0 !
M &T @ 2 \$ 0 2 (& ! \$ /0 " ! (0 !
M 8 S@ < !P !)1 6X , 2P %H '@
M E0 '0 &0 \$!: !X)D !T !D !
M 6@ > ") = 9 0 %H '@ 240%N
M # \$L !: !X '4 !T !D ! 6@ >
M " ! = 9 0 %H '@ E (@ " (
M 0 'Q0P " _=VD C) \$*%3 A)@
M 1(" + , \$ ""X/@X^(S[
M" HL 0 ! 0\$! (_T \$M(4@0 (+ _.#XC @\$"BD! \$! 0\$ @
M #_0 2TN, X "D@ . !. (#X5?C&^NL)\0_ !@
M ?_ %':@#_P!+ ! 6@ > ! %U=H870@>6JU
M(&YE960@=&\@=7-E(&ET(, %P 0 0 !< @ D \$ P
M& !< ' \$ 7 / ^E &0 !: & 1, (
M #_?C&!^<)[_ "0 ?_ #_I0#_P!D 6@
M!P ! ! \$4UA;G5A;"!L;V-A=&E0;@U\$=6UB('!E<FUI;F%L+"!M87 L(%1.
M0R!A;F0@<F%D:6\ -0V]M<'5T97(L(%1.0R!A;F0@<F%D:6\ -075T;VUA=&EC
M(&Q08V%T:6JN<R!R97!0<G1I;F<-1U!3+"!004-#3TT@5\$Y#('=I=&@=F5R
M<VE0;F 5+C(@9FER;7=A<F4@86YD(')A9&E0#4=04RP@8V]M<'5T97(L(%1.
M0R!A;F0@<F%D:6\ -075T;VUA=&EC('=E871H97(@<F5P;W)T:6YG#55L=&EM
M971E<BU)22P@8V]M<'5T97(@86YD(')A9&E0#55L=&EM971E<BU)22P@5\$Y#
M(&%N9"!R861I;P # 1\$ \$ 8 0 (& ! \$.@ "
M ! (0 ! !X @ 8 \$ 0 !1 (\$@ ! \$
M' " !@ 0 ! #P @ 2 \$ 0 ! 1\$ ' D 0
M40%N # \$L !: !X (D !T !D !
M6@ > !A = 9 0 %H '@ >40%N #
M \$L !: !X - \$!T !D ! 6@ >
M !U = 9 0 %H '@ <40%N # \$L
M !: !X (4 !T !D ! 6@ > !M
M = 9 0 %H '@ L *0 " (0 'P "
M "0 8 J *P\$*#I0 H +0 0,
M " + , \$ ""X/@X^(S[" HL 0 ! 0\$!
M (_T \$*"[0 (+ _.#XC @\$"BD! \$! 0\$ @ #_0 0H5
M4 X "8@ . !. (#X5?C&^NL)\0_ "0 ?_ #_
MI0#_P!D 6@ ! \$A0=R!I="!W;W)K<P ,
M# 0 0 P @ D \$ P & P ' \$, / ^E
M &0 !: ' 1, (#_?C&!^<)[_ ! (?
M \$#_T #_P!D ! 6@ > ! !D)E86-0;B!T97AT(&90
M<FUA=" H;&]C871I;VX (&5X86UP;&4I#4)4("\$%1\$U-+GAX3B)\$1\$1-32YX
M>%<0+BXN8V]M;65N=' , -54D@9G)A;65S#75S92!5;G!R;W10('!0(' -E="!D
M:6=I('!A=&@-861D<F5S<R!T;R! !4%)3("AD;R!N;W0@8V]N;F5C="D-<'5T
M(&EN=&\@0T] , 5D524T4@;6JD92 H0V]N=B!0<B!+(&-0;6UA;F0I#4EG;FJR
M97 , @86QL(&%D9')E<W , @8G5T#4E\$+"! #42P@45-4+"! "14%#3TXL(\$U!24PL
M(%-+65=23BP@1\$9 .150@86YD(\$%04E, # 08 \$ 8 G (& !
M \$ (P " ! (0 ! H @ 8 \$ 0 !I (
M\$@ ! \$ & " !@ 0 ! # \$ @ 2 \$ 0 &
M 08 ' @ G40%N # \$L !: !X (T !T
M !D ! 6@ > I1 6X , 2P %H '@
M =0 '0 &0 \$!: !X (4 !T !D
M ! 6@ > "M = 9 0 %H '@ 8
M40%N # \$L !: !X ,4 !T !D !

M6@ > #, P (@ ! ? () ! @ # \$ R
M 0H/: " \ T !!0 (0 ____ \
M < P 0 (+@^#CXC/L("BP! \$! 0\$ @ #_0 2TLF!
M@L#\X/B," 0**0\$ 0\$! 0 " /_] !+2!T #_0): X
M \$X @ /A5^,;ZZPGR_ & !_ \ 4?JN /__ \$L \$!:
M !X \$)1FJR;6%T<R @6@ , "0 0 0 D @ D \$
M P & D ' \$) / ^E &0 !: (
M 1, (#_?C&!^<)[____ "0 ?__ #_I0#_P!D
M6@ "0 !]B0@:7,@<WEM8F]L('10(' -H;W<@#5!0<VET:6JN(')E
M<&]R=' , -1FEX960@3&%T+\$Q0;CH@(41\$34TN>'A.+T1\$1\$U-+GAX5R1C;VUM
M96YT<PU&:7AE9"! '<FED(-Q.B!;6%AN;EUC;VUM96YT<PU&:7AE9"! '<FED
M(-Q.B!;6%AN;GEY76-0;6UE;G1S#4U08FEL93H@0\$1\$2\$A-32]1\$1\$U-+GAX
M3B]\$1\$1-32YX>%=<0U-%+U-01"\Y,%\$D8V]M;65N=' , -0U-%(&E\$(&-0=7)\$S
M90U34\$0@:7,@<W!E960-42!I<R!Q=6%L:71Y(#\$@=&\@. ,]@ 0
M @ "8 @ 8 \$ 0 #0 (\$@ ! \$!@ #V !P)
M %\$!:@ P!+ 6@ > !%1 6X , 2P
M %H '@ L0 '0 &0 \$!: !X 'D !
MT !D ! 6@ > " ! = 9 0 %H
M '@ X0 '0 &0 \$!: !X #D !R !D
M " 6@ > U <@ 9 @ %H '@
M 30 '(&0 (!: !X .@ #< @ " \$!
M\04 0 ____ V-K . #D!"@\L -@ #L
M \$8 @ " ____ P !P # ! @N#X./B,^P@*+ \$
M 0\$! 0 " /_] !+2@(\$ " "P/S@^(P(! HI 0 ! 0\$! (____ T
M \$M+'@ . E(# @ 3@ " ^%7XQOKK"?+_P D ' ____ P
M _Z4 _\ 9 %H 0 A&;W)M871S(,
M " 0 0 @ @ D \$ P & @ ' \$ (/ ^E
M &0 !:) 1, (#_?C&!^<)[____ ! (?__
M \$#_T #_P!D ! 6@ > ! Y\$1&(\$E87)I;F=S#2%\$
M1\$U-+GAX3B]\$1\$1-32YX>%=<# P+S P,"]4D<03F]1+T1&(&-0;6UE;G1S
M#4)21R!I<R!B96%R:6YG(&1E9W)E97,@=')U90U. , %\$@:7,@<75A;&ET>3L@
M3B!I<R!N=6UB97(@;V8@:&ET<SL@42!I<R!Q=6%L:71Y(#\$@=&\@. U"<F]A
M9&-AW0-0\$1\$2\$A-32]M97-S86=E#4]B:F5C= U/0DI%0U0@0\$1\$2\$A-32]\$
M1\$U-+GAX3B]\$1\$1-32YX>%=<D0U-%+U-01"]#;VUM96YT<P , Y 0
M!@ P @ 8 \$ 0 "% (\$@ ! \$ " @ " !@ 0 !
M ! ! @ 2 \$ 0 ' (& ! \$, @ " ! (
M 0 ! 8 Y < " Q1 6X , 2P %H '@
M P0 '0 &0 \$!: !X '\$!T !D
M ! 6@ > #E = 9 0 %H '@ *
M40%N # \$L !: !X \$\$!T !D !
M6@ > =1 6X , 2P %H '@ R0 '0
M &0 \$!: !X 00 #X @ " \$!\04 0 ____
M_V-K /P \$!"A+ /0 \$ (\$9
M @ " ____ P !P # ! @N#X./B,^P@*+ \$ 0\$! 0 "
M /_] !+2R8\$ " "P/S@^(P(! HI 0 ! 0\$! (____ T \$M('0 .
M E(# @ 3@ " ^%7XQOKK"?+_P 8 ' ____ P !1_VX _\
M2P 0 %H '@ =&;W)M871S , !P 0 0
M < @ D \$ P & < ' \$ ' / ^E &0
M !: * 1, (#_?C&!^<)[____ "0 ?__ #_I0#_P!D
M 6@ "P ! OU=E871H97(-0\$1\$2\$A-32]\$1\$1\$U-+GAX
M3B]\$1\$1-32YX>%=?0U-%+U-01"]4,# W,R]2,# P+U=X4W1N#4-312!I<R!W
M:6YD(' -P965D#5-01"!I<R!W:6YD(' -P965D#51X>'@@:7,@=&5M< U2>'AX
M(&E\$(')A:6X0:6X0:' (-1'AX>"!I<R!\$97<@4'0-4'AX>"!I<R!087)T:6-I
M<&T:6JN(&EN+V1A>0U">'AX(\$)A<F\N(%!R97-S=7)E"@ , OP 0
M @ @ 8 \$ 0 "W (\$@ ! \$!@ " _!P)
M "%\$!:@ P!+ 6@ > #1 = 9
M 0 %H '@ 20 '0 &0 \$!: !X \$D !
MT !D ! 6@ > U = 9 0 %H
M '@ 30 '0 &0 \$!: !X #T !T !D
M ! 6@ > !U = 9 0 %H '@
M 30 '0 &0 \$!: !X 2 \$4 @ " \$!
M\04 0 ____ V-K 1@ \$<!"@^D 1 \$D
M \$6 * "@ ! 0 +
M \$@ !D @
M)P "X U
M / \$, @ "
M !*(%H 2P ! H \$: 0H1Y 54X @ " !P(#
M " 1(-#[Y_95"&@+. \$ 08 !P & 0H05 \$*\$" (!\$@T/E]E4(
M: LW 0 !!@ ' 8!"A', 0H+3 0 (+@^#CXC/L("BP! \$! 0\$ @
M #_0 0H0J! @L#\X/B," 0**0\$ 0\$! 0 " /_] !"A5X\$ "%
MP >K^'8(1? \L 0 0 ! (____ T \$*"<P0 (7 !ZL(Q@A%"CX! !
M \$ @ #_0 0H*3! 8UOP D 0 ! #_ \ /_P\$ "C6_
M 0 /_P_ P ^^?V50AH"SC[YPLX^^?V50AH]E4 !0 ^4#V50AH
M"S<(:/J^4#X*0E]E7[]?95^R4+-P 3P ' \$ \ "< @0 '
MR/BP"C^0_ ! (?__ #_I0#_P!D 9 !
M *BAC*2!C;W!Y<FEG:'0@,3DY-" @4W1E<&AE;B!38VAW87)M+"!7,T56
M10 , *@ 0 0 "H @ * \$ 0 & "H ' \$ J
M / ^E &0 !D "< @0 'R D ""@*!/_ ! (
M ?__ #_I0#_P!D 9 ! !W!A9V4@(R,0

M P ' ! ! ! P " H 0 ! 8 ! P < 0 <
M_Z4 9 &0 \$X @ /A5^,;ZPGR_\) !
M_\ / ^E / _ &0 !: \$ %5&ET;&4(P
M % ! ! ! 0 " " 0 # 8 ! 0 < 0 4 _Z4
M 9 %H \$! \$ P @ /S]^,8'YPGO_\ # @ ! _\
M 0 / _ 0 / _ &0 0 !: !X \$ [0F]D>2!497AT#5-E
M8V]N9"! ,979E; U4:&ER9"! ,979E; U&;W5R=&@3&5V96P-1FEF=&@3&5V
M96R0 P [! # " @ " ! @ 0 ! !D @ 2 \$ 0
M 8 (# @ ! \$! @ [! P % "E\$!; @ P ! +
M 6 @ > 0 U = 9 0 %H ' @ ,
M0 '(&0 (!: !X #5\$#; @ P \ #
M6 @ > M = 9 ! %H ' @ !1 3 @ &
M 8 0 " / _ ! / 4! @L#_</G0"9 &, \$ \$
M 0 " / _ ! +2BD\$ "DP HO_Q8*SP#J 0 ! 0\$! (!+2=0 _T \$M
M)P00\$ #0]G#Z8/[@ !: ! ! \$ @ # _ 0 " !I&#P T
M(0 < # & &) 0 0) 0 !8P @ I+ _TT*LP"S _\ "P
M_\ "17 / ^5 / _ &0 0 !D # (\$ _ '4&%G92 C(P
M# < \$ \$ # \$! @ ! P ! !P#_
MI0 !D \$ 6 @ 3 " _XWZ"@ES! ?; _P , #_
M_P _Z4 _\ 9 ! %H * 0 #M";V1Y(%1E>'0-
M4V5C;VYD(\$QE=F5L#51H:7)D(\$QE=F5L#490=7)T:"! ,979E; U&;69T:"! ,
M979E; # #L \$ \$ [(# \$! @ [! P %
M "@#_I0 !D 6 @ H 0 T _Z4 9
M 0 %H * \$, / ^E &0 (!: " @ ! #0#_
MI0 !D # 6 @ H 0 L _Z4 9 ! %H
M* \$!6 4P # , 0 " ## ! !4 50\$*
M#8 @ !- 4 @ % < ! "RU\ 0LN7 \$!53 @ " ('
M @ , \$ "DP HO_Q8*SP#J 0 ! 0\$! (!+23H _T \$M).0 @ :
M1 @ \ - "\$ ' W ! @ <F0 "4 6, (*2_] -"K,
ML _P / _ 92P#_E0#_P!D \$ 6 @ ! !U!A
M9V4 @ (R, P ' ! ! ! P P ! 8 ! P <
M 0 < _Z4 \$ 9 ! %H ! = 6 @ ! \$? _
M _ ! !; 7 \$ * \$ U !9 %X
M \$!53 @ " (' @ , \$ "DP HO_Q8*SP#J
M 0 ! 0\$! (!+23P _T \$M)LP @ :1 @ \ - "\$ ' W ! @
M ='4 "4 6, (*2_] -"K, L _P / _ # (A @ # _E0#_P!D
M \$ 6 @ ! !U!A9V4 @ (R / (P ' ! !
M!P P ! 8 ! P < 0 < _Z4 \$ 9 !
M %H !D 80 ! \$? _ ! !B
M8P\$*\$*0 ! @ &4 *CT @ \$! (N+6 ! _P
M 0!"0; 9P\$C#E(!"0@8 0H1X ! (\$ @ D "0 - @ V \$ @ 2 , "
M0 +0 &P 2 "T) \P#8 3L!(P) 1(\$@ (C B, #-0, U
M!\$8\$1 @ # B, (! 2+K &? _\ \$ 0KVY 2 :0
M , : @ # : P " : " ' "H * @ "6 F
M
M (H !M\X /!\ #P?P ^/\ / _\ # _ @ _T / _\
M 0 ! \$ 0 ! \$ 0 ! # _ 0 !D &0 9 \$! 0 . '# <5 \$
MSX < 6 / _ _P!9 21:) %HD6 @ 60 ! \$84 > /6 _WR
M #, *X4 # _SL 08H] @ %SMC.V, [8 _T 9 !D &0! 0\$ #APW
M%0 !-* ' %C _\ 60 &VAS: '-H < %D V=L
M9VQG; !, S, S, S, S %D ! < [8SMC.V (! 2+M9 #? _\ \$ 0KV
MT \$; P + < \$*\$10!"A'P 0H1' 3 @ " 0 " 0 # #
M " "0 0 # " "0 0 # " "0 0 # " "0
M 0 # #_I0 !D 6 @ 0 _Z4 9
M 0 %H \$ / ^E &0 (!: !
M #_I0 !D # 6 @ 0 _Z4 9 !
M %H \$ 1, (? (& ! \$ (\$ @ ! \$ ((\$ @ ! \$
M\$ @ ! \$ (# @ ! \$ (# @ ! \$ 40%N # \$L
M !: !X ! \$!T !D ! 6 @ > !
M < @ 9 @ %H ' @ 40-N # #P , !:
M !X \$!T !D \$ 6 @ > \$P @ ! \
M @ , 0 @ , 0 @ , 0 @ , 0 @ ,
M @ , 0 _Z4 9 %H * \$ / ^E
M &0 \$!: " @ ! #_I0 !D " 6 @ H
M 0 _Z4 9 P %H * \$ / ^E &0
M 0 !: " @ ! ! / _ 3 " 'P ! ! @ ! ! @ !
M ! ! @ ! ! ! ! @ ! ! ! @ ! ! @ ! ! @ !
M !D 9 4 !4 :4 9 0 &0 %
M 5 &E &0 (!D !0 %0 !I0 !D
M # 9 4 !4 :4 9 ! &0 %
M #, (? (\$ @ ! \$ (\$ @ ! \$ (\$ @ ! \$ (\$ @ ! \$
M\$ @ ! \$ (\$ @ ! \$ / ^E &0 !D
M #_I0 !D 9 _Z4 9
M &0 / ^E &0 !D #_
MI0 !D 9 0 ! \$ \$ @ @
M P # @ / > ? !4 %R:6 %L = %0 !D=E;F5V80 '8
M _\ . !4:6UE <R! .97 < @4F]M86X !X 4 .36]N;W1Y < &4 @
M4V]R=' , !Z ?7 ' > 0\$BZM0 !' _ \$ * ^ ! @ % @ '4 !0
M '< 2P 'D (@ 'L P \$ @ 2 "V @ (H _ ^' _X @ +Y D8#1P4H _P

```

M @ $@ 2 "V@ (H $ !D 0 ! 0$ ! )P\ 0 !
M ( &0&0 ! 0
M$P
M !2 8#N 3X/>0], (< M ],#WD M "' _J #D
M3 &8 !8 7P '[Y$/7H $ ! ( @ " &@ !L
M <0 &X !S <@ 'P %H 0X!#@%H 0 ??____\
3 "<0 =3/_^ 8GP #"ZW>[7P

```

end

48. QTH of APRS6.3

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
 Date: Wed, 11 Jan 1995 11:46:04 CST
 To: aprssig@tapr.org
 Message-ID: <0098A4D1.60FD99DF.30@INS.INFONET.NET>
 Rendered body type: text/plain

Have looked under 128.54.16.7 or ucsd.edu in cd /hamradio/packet/tcpip/incoming
 and cd /hamradio/packet/tcpip/incoming
 or rather cd /hamradio/packet/aprs and no newer version than aprs6.2.

Is there another site it is posted at? I need it for my poor MS-DOS
 friends.
 TNX
 73, Bill

49. Re: Davis Weather Monitor II

From: mmunster@qualcomm.com (Marvin Munster x5388)
 Date: Wed, 11 Jan 1995 11:37:16 -0800
 To: aprssig@tapr.org
 Message-ID: <ab39e2d82102100437be@[129.46.12.181]>
 Rendered body type: text/plain

Does anyone know how to interface the Davis Instrument Weather Monitor II
 to an APRS system. I don't think it should have data coming out of it much
 different than the Ultimeter II. I noticed in the docs that there was some
 reason that the Davis could not be used. Something about not being able to
 supply source code. Do we really have to go into the thing that deep or do
 we just need the output of the unit defined. I spoke with Davis this
 morning, and they didn't seem to have a problem with defining the outputs.
 In fact, there is a software designers kit and disk available. I think it
 is \$99, but maybe a couple of us could chip in if the input/output could be
 defined for the APRS.
 Just a thought.
 Marvin - WB6PKK
 mmunster@qualcomm.com

50. Re: [APRSSIG:72] QTH of APRS6.3

From: acourt@ncc.uky.edu
 Date: Wed, 11 Jan 95 14:41:52 EST
 To: aprssig@tapr.org
 Message-ID: <m0rS8xe-0001P5C@dptspd.sat.datapoint.com>
 Rendered body type: text/plain

Version 6.3b for MSDOS is available by anonymous ftp at 140.174.180.1.

It takes a while, as I think this is a slip link and is limited to 14.4K.

73

--

Allan Courtney KD4DBN // Lexington, Kentucky // acourt@ncc.uky.edu

51. Re: [APRSSIG:70] Ultimeter-II

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
 Date: Wed, 11 Jan 1995 14:45:17 -0500 (EST)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950111144156.19496B-100000@greatlakes.nadn.navy.mil>
 Rendered body type: text/plain

On Wed, 11 Jan 1995 ROBERTST@BENNING-EMH1.ARMY.MIL wrote:

```

>I hooked the TNC and Ultimeter up as stated and sure enough the Beacon
contains data
> from the Ultimeter. Unfortunately the info is just a string of numbers
> similar to *0007600000000 or something thereabouts. When I use the WX option
> of APRS it works fine so I can only assume that APRS decodes this info into
> meaningful data.

```

ANSWER: APRS decodes the raw data off the air! It doesnt have to be in the final APRS format. In order for APRS to know that the raw data is from an U-II, the remote TNC must have the WX symbol in its BText {_} and APRS will do the rest....

52. Re: [APRSSIG:73] Re:David Weather Monitor II

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 11 Jan 1995 14:50:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950111144749.19496C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I agree, If someone will just define for me what the data looks like, and what it means, then I will be happy to add it to APRS for decoding the DAVIS outputs. So far, no-one has figured it out. I dont have one, so I cant experiment. Should be simple to do. Hook it put to PROCOMM and record a file for a few minutes. I would hope it should be obvious from then. (Of course, APRS is stuck SIZE wise, and I have to go re-modularize the code to make more room, before I can add anything onther that 1 or 2 lines...)

53. Cheap \$25 GPS!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 11 Jan 1995 15:01:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950111145208.19496D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Not really.... But Today I am going around to the local YACHT clubs and BOAT yards and posting a sign reading something like this: OLD LORANS WANTED! Will pay up to \$25! etc....

If GPS is selling as hot as everyone says it is, then there should be lots of junk LORANS being scrapped. Most have NMEA output and are perfectly compatible with APRS. Why shell out \$450 for a GPS toy when you can have just as much fun wiht a LORAN doing the same thing!? Sure, LORAN is only going to be around till 1999, but by then, GPS will only cost \$25 hi hi... You can buy brand new LORAN units for \$150 on sale, so a used clunker should be worth about \$25 unless you really want one, then go ahead an offer \$50 hi hi.

A properly placed call to any of a number of trucking companies that are abandoning their LORAN trackers for GPS units should also find hundreds of units. A few months ago, an article in 73 mag wrote up such a cheap surplused LORAN and the guy was selling them for \$25. He had 100 of them...

JUST BE SURE THE UNIT OUTPUTS NMEA GLL and VTG.

de WB4APR

54. WB4APR de N4ULS

From: janderson@ram.net
Date: Wed, 11 Jan 95 15:36:29 EST
To: aprssig@tapr.org
Message-ID: <02088.15021591@RAMail>
Rendered body type: text/plain

Bob, can you post your email address here or send it to N4ULS@ram.net? I need to contact you directly on email.

Thanks,

Jack

55. WB4APR de N4ULS

From: janderson@ram.net
Date: Wed, 11 Jan 95 15:51:23 EST
To: aprssig@tapr.org
Message-ID: <02092.15021591@RAMail>
Rendered body type: text/plain

Bob, can you post your email address here or send it to N4ULS@ram.net? I need to contact you directly on email.

Thanks,

Jack

PS Whoops, N4ULS@ram.net isn't working. Use n4uls@ram.net or janderson@ram.net.

73

56. Freq?

From: Richard Matthews <Richard_Matthews@shsvsmtp.huntsville.sparta.com>
Date: Wed, 11 Jan 1995 15:26:33 -0600
To: aprs <aprssig@tapr.org>
Message-ID: <199501111526333310@shsvsmtp.huntsville.sparta.com>
Rendered body type: text/plain

I'm a newcomer to APRS and live in a rural area of Alabama. Should I look for a specific frequency for APRS activity or will it appear on local BS frequencies?

Also is there an easy way to change a PK-88 from KISS mode to command mode?

73 de WA4NWW@amsat.com

57. APRS telemetry system

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 11 Jan 1995 15:12:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950111150153.19496E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

TELEMETRY.txt 6.3 APRS TELEMETRY SYSTEM
 Using the Micro.Interface.Module (MIM)

NOTE: THIS INFORMATION IS PRELIMINARY, AND ALTHOUGH A PROTOTYPE IS WORKING FINE, N3MIM AND I ARE STILL FINE TUNING THE PROTOCOLS AND FINAL DESIGN
***** Maybe we will be finished by DAYTON??

Carl Wick, N3MIM, has developed a simple, yet powerful Micro.Interface Module that can be used as a single chip APRS telemetry system. Although the intent of his original design was to make a very simple, light-weight, throw-away module for experimental balloon flights, his design has now evolved into a very useful APRS packet tool. Using one of the single chip microprocessors, he has implemented a complete TNC (transmitter only) on a chip. This chip has four analog inputs, five digital bit inputs, a receive audio input (for proper CSMA operation) and outputs PTT and AX.25 audio. The only external components besides the sensors themselves, are a crystal and a transmitter. (As of today, he is adding a simple 100 mw xmtr too!). The chip even uses digital synthesis to generate the audio waveform! The chip pin-out follows:

Analog 2 --0		0-- Analog 1
Analog 3 --0	M.I.M	0-- Analog 0
Rcv input --0		0-- Xtal
reset --0	AX.25	0-- Xtal
Gnd --0		0-- 5 volts
Input bit 0 --0	Telemetry	0-- AX.25 out
input bit 1 --0		0-- AX.25 out
input bit 2 --0	Chip	0-- Input bit 5
input bit 3 --0		0-- Input bit 4

APRS TELEMETRY RECEIVING SYSTEM: Any telemetry system requires a table of equations and labels to make the values useable at the receiver site. The problem with most experimental telemetry systems, is that the receiver system must be tailored for every new application. In the case of a one-time balloon launch, (or any experiment assembled to meet a schedule) the equations are not usually available until just hours or minutes before launch. This means that it is next to impossible to distribute the equations and parameter definitions to a large number of tracking stations and to be able to have receiving telemetry software ready to go.

For this reason, APRS has been designed to serve as a general purpose telemetry tracking system for the M.I.M. Using APRS it is possible to transmit the telemetry equations, parameter definitions and channel units IN REAL TIME! Once any APRS station receives these parameter transmissions, it is then ready to receive and to display the real-time telemetry values in the proper engineering units. A sketch of the APRS telemetry display is shown below:

PRELIMINARY!!! APRS CODE NOT YET FINISHED!!!

CHANNEL	UNITS	SAMPLES									
Serial #		15	16	17	18	19	20	21	22	23	24
Time	HHmm	1236	1246	1256	1306	1317	1327	1337	1347	1357	1407
Battery	volts	12.6	12.6	12.6	12.5	12.5	12.4	12.3	12.3	12.2	12.2
BTemp	deg.F	85.3	83.2	81.5	80.6	80.1	79.8	79.7	78.4	77.3	76.0
AirTemp	deg.F	96.8	96.8	97.0	97.4	97.8	98.2	98.6	99.0	99.4	99.8
Pres	mBars	986	975	936	927	918	854	823	817	798	754
Camera	bit	.	.	clik	.	.	.	clik	.	.	.
Chute	bit	off	off	off	off	off	off	off	off	off	off
SunSens	bit	on	.	on	.	on	.	on	.	on	.
10mXmtr	bit	on	.	.	on	.	.	.	on	.	.
ATVxmtr	bit	high	high	high	.	.	.	.	high	high	high

Notice that the M.I.M module transmits a value for each of its four analog channels and each of its five digital bits once every sample time. The sample periodicity can be set from any value from 1 second to 30 minutes depending on the application. Each sample includes a unique serial number. In addition, not only can the parameter name, units and equations be specified for each of the analog channels, but the word to be associated with either the 0 or 1 value of each digital bit can also be specified.

To configure all APRS stations to properly decode the telemetry from the M.I.M module, the net control station (or any other designated station in the APRS network) needs to transmit the proper parameter definition packets. These packets are transmitted as APRS messages TO the CALLSIGN of the M.I.M module. If the M.I.M module is using the callsign of N3MIM, then the parameter definition station would send the following three messages:

```
To N3MIM:PARM.Battery,BTemp,AirTemp,Pres,Camra,Chute,SunSens,GndSens,10m,ATV
To N3MIM:UNIT.Volts,deg.F,deg.F,Mbar,Clik,OPEN!,1,on,on,high
To N3MIM:EQNS.0,2.6,0,0,.53,-32,3.439.49,-32,3,18,1,1,0,1,1,0
```

The PARM format specifies the name of each of the nine parameters. The UNITS format specifies what units are to be displayed, and for the digital bits, show what label is associated with the digital condition. The EQNS format has three coefficients for each of the analog channels, and either a 1 or a 0 for each of the five digital channels to indicate which state is associated with the indicated label. This permits the payload designer to use 1's or 0's as convenient with his circuitry without being forced to always use 0 for OFF and 1 to mean ON. The three values for each of the analog channels are simply the coefficients of a quadratic equation:

Final value = $A \cdot X^2 + B \cdot X + C$ Where X is the M.I.M transmitted value

FORMAL SPECIFICATION: The specific format for the PARM, UNIT, and EQNS packets are shown below:

PARM,P1,P2,P3,P4,B1,B2,B3,B4,B5 Where Pn and Bn are the parameter names

UNIT,U1,U2,U3,U4,L1,L2,L3,L4,L5 Where Un are the units for analog ports and Ln are the labels for the bits

EQNS,A1,B1,C1,A2,B2,C2,A3,B3,C3,A4,B4,C4,x,x,x,x,x Where the An,Bn,Cn are the coefficients for each of the analog channels, and the x's are either 1 or 0 depending on which state matches the indicated BIT label.

PRELIMINARY INFO ONLY. MAYBE WE WILL FINISH BY DAYTON!!!!

58. Multiple CONSOLES at EOC centers

```
From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 11 Jan 1995 17:17:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950111170742.22954A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain
```

We did a RACES drill last night at the county EOC. All I took was a laptop, and a special serial cable, and yet we put three different PC's in DIFFERENT rooms on the air. See the following text which has been added to README\OPS.txt:

RACES AND EMERGENCY OPERATIONS CENTERS: Dont overlook the fact, that a

handful of separate PC computers can ALL BE CONNECTED TO A SINGLE TNC AND RADIO! This fact can be used to create quite an impressive multi-station tactical communications system that will rival some 911 consoles! For now (im working on a slave mode in version 6.4) just designate one console as the APRS operator connected to the TNC in the normal fashion. Then connect all other consoles to just ground and RXD coming out of the TNC. This way ALL consoles see the tactical picture, and these SLAVE PC's are at the individual operator's disposal to zoom in, and hop from screen to screen to give them access to what ever info they need! Do not think that a big screen display is better. A single big screen is impressive, but actually useless. Only the person at the KEYBOARD of an APRS system can actually get any info from APRS. In our county, you need to be below the 8 mile scale to get an idea of what is going on at a crisis, and while you are zoomed in there, others need to be focusing on other parts of the county.

So just prepare your serial cable between the main APRS PC and the TNC to have several RCV only cables attached, and string them out throughout the EOC to any spare PC's in the building. That way, anyone at those PC's has INDEPENDENT access to all of the APRS info without bothering the APRS operator who is cursoring around like mad just trying to keep up with the traffic. Remember that these RCV only cables can be simply 2 conductor radio shack miniature zip cord. You can carry hundreds of feet of this stuff in the briefcase with your portable laptop!

NOTE, that only the APRS operator can introduce information into the APRS network (on the air) and that the slaves are just info access terminals to give other personnel access to that info. To make a true multiple console system, I need to define a SLAVE mode that does the following.

- 1) It turns off the automatic rejection of MY packets, so that all consoles can use the same EOC callsign, but still monitor what other consoles under the same call are doing.
- 2) I have to implement a RTS/CTS hardware handshaking BUSY signal, so that only one CONSOLE is sending to the TNC at a time.

Until I do these, however, the multiple RECEIVE console concept is a very powerful tool for allowing all of the EOC operators instant access to APRS displays.

P.S. The multiple RECEIVE consoles see what the main APRS op is putting into the system, because they see his DIGIPEATED packets. So they see what everyone else sees. If they dont see it, then the APRS op is NOT getting out...

59. Re: [APRSSIG:80] Freq?

From: dkelly@tomcat1.tbe.com (David Kelly)
Date: Wed, 11 Jan 95 16:23:25 -0600
To: aprssig@tapr.org
Message-ID: <9501112223.AA20034@tomcat1.tbe.com>
Rendered body type: text/plain

How rural in North Alabama? I believe 145.790 has been coordinated for APRS for the entire state. You might contact KE4EER @ K4BFT, he's the closest thing to an APRS evangelist you'll find in the area.

73, David N4HHE (also in North Alabama)

--

David Kelly, N4HHE, n4hhe@amsat.org, dkelly@nebula.tbe.com

Did you know that if you took all the economists in the world and lined them up end to end, they'd still point in the wrong direction?

60. Re: [APRSSIG:77] Cheap \$25 GPS!

From: Greg Jones <gjones@tenet.edu>
Date: Wed, 11 Jan 1995 16:37:02 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199501112237.QAA22043@Alice-Thurman.tenet.edu>
Rendered body type: text/plain

Robert,

If you or someone else can find a large qty of these units, we could probably work up some interest and do a mass buy through TAPR.

Greg

According to Robert Bruninga:

>

> Not really.... But Today I am going around to the local YACHT clubs and
> BOAT yards and posting a sign reading something like this: OLD LORANS

> WANTED! Will pay up to \$25! etc...
>
> If GPS is selling as hot as everyone says it is, then there should be
> lots of junk LORANs being scrapped. Most have NMEA output and are
> perfectly compatible with APRS. Why shell out \$450 for a GPS toy when
> you can have just as much fun with a LORAN doing the same thing!? Sure,
> LORAN is only going to be around till 1999, but by then, GPS will only
> cost \$25 hi hi... You can buy brand new LORAN units for \$150 on sale, so
> a used clunker should be worth about \$25 unless you really want one, then
> go ahead and offer \$50 hi hi.
>
> A properly placed call to any of a number of trucking companies that
> are abandoning their LORAN trackers for GPS units should also find
> hundreds of units. A few months ago, an article in 73 mag wrote up such
> a cheap surplused LORAN and the guy was selling them for \$25. He had 100
> of them...
>
> JUST BE SURE THE UNIT OUTPUTS NMEA GLL and VTG.
>
> de WB4APR
>
>

61. RE: [APRSSIG:84] Re: Cheap \$25 GPS!

From: "Todd Little, Pegasus" <little@nuts2u.enet.dec.com>
Date: Wed, 11 Jan 95 18:30:12 EST
To: aprssig@tapr.org
Message-ID: <9501112329.AA25485@us2rmc.zko.dec.com>
Rendered body type: text/plain

What's the coverage for LORAN? I was under the impression that there are large areas of the country not covered by it. Anyone have a map giving LORAN coverage?

73,
Todd
N9MWB

62. Re: [APRSSIG:61] Running APRS

From: Gregory.R.Laborde@jpl.nasa.gov Wed Jan 11 19:03:50 1995
Date: Wed, 11 Jan 1995 20:04:42 -0500
To: aprssig@tapr.org
Message-ID: <950111191559_6033741@aol.com>
Rendered body type: text/plain

Date: 95-01-09 18:54:25 EST
From: Gregory.R.Laborde@jpl.nasa.gov (Gregory R. LaBorde)
Sender: aprssig@tapr.org
Reply-to: aprssig@tapr.org
To: aprssig@tapr.org

<EDITED>

"Also, can APRS be run on an HP200LX (with a KPC-3)?"

Absolutely...several in this area doing that. Delete unnecessary maps and other files...

Dan N4WZR

63. Re: [APRSSIG:82] Multiple CONSOLES at EOC centers

From: "Robert G. Mahoney" <robertgm@romulus.ncsc.mil>
Date: Wed, 11 Jan 1995 20:33:19 -0500
To: aprssig@tapr.org
Message-ID: <199501120133.UAA26561@romulus.ncsc.mil>
Rendered body type: text/plain

Bob,

After talking to you today abt the EOC exercise I realized I'd forgotten one item. There were lots of bulletins posted last night. They were beginning to scroll off the screen when I hit the "B". During a real emergency it may be helpful to enable paging similar to positions and beacons. My apologies if it was just operator ignorance. BTW tnx for the hard work on APRS.

Bob wb8cxn

64. U.K. N.G.R. (fwd)

From: pete@bearnnet.demon.co.uk (Peter Baston)
Date: Thu, 12 Jan 1995 19:35:54 GMT
To: aprssig@tapr.org
Message-ID: <371@bearnnet.demon.co.uk>
Rendered body type: text/plain

I'll post the following again now Bob has joined the sig,
welcome Bob, by the way !

Forwarded message follows:

```
>
> Hi all !
>
> My first version of APRS was version 5.9cn, which I got
> from G0MAM, the RSGB's Emergency Communications Officer. This
> version displayed U.K. National Grid Reference as well as
> Lat/Long in the top left of the screen, only when the cursor is
> in the UK area.
>
> I then got hold of version 6.2b (the latest?) from the
> BBS. I note that this version no longer displays NGR.
>
> Does anybody know what happened to the NGR ? Was 5.9cn
> maybe a special version for the UK ?? I see no mention in the
> readme files.
>
> P.S Hi Keith, WU2Z, I used to be a neighbour of yours (East
> Brunswick) I think we may have spoken on the Oldbridge repeater
> once ?
>
> Pete GW0PJA / AA2DZ.
> --
> Pete Baston, Clwyd, North Wales, U.K.
>
```

```
--
Pete Baston, Clwyd, North Wales, U.K.
```

65. Re: [APRSSIG:86] Re: Running APRS

From: Gregory.R.Laborde@jpl.nasa.gov (Gregory R. LaBorde)
Date: Thu, 12 Jan 95 13:34:07 PST
To: aprssig@tapr.org
Message-ID: <9501122134.AB23051@kilroy.Jpl.Nasa.Gov>
Rendered body type: text/plain

Me>>"Also, can APRS be run on an HP200LX (with a KPC-3)?"

>Absolutely...several in this area doing that. Delete unnecessary maps and
>other files...

Cool! I am expecting one to arrive today. And I have an extra TNC to go
with it so no need to monkey with my main system. Now, where can I ftp the
latest APRS from, and how do I get maps of California as opposed to Idaho
and Vermont?

-Greg

```
--
Gregory R. LaBorde - KD6MSM          | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory             | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET     | Packet  : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive     | Phone   : (818) 393-1107
Pasadena, CA 91109                  |
```

66. Re: [APRSSIG:73] Re:Davis Weather Monitor II

From: Emmet2@aol.com
Date: Thu, 12 Jan 1995 17:37:22 -0500
To: aprssig@tapr.org
Message-ID: <950112172904_7066414@aol.com>
Rendered body type: text/plain

What is the advantage of the Davis Weather Monitor over the Ultimeter? Did
you compare the two, or did you already have the former before becoming
interested in APRS?

- Chip Griffin aka Granite

- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

67. APRS63B fatal error

From: Kent Larson <klarson@access.digex.net>
Date: Thu, 12 Jan 1995 22:56:01 -0500 (EST)
To: APRSSIG <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950112224900.19897A-100000@access3.digex.net>
Rendered body type: text/plain

Bob,

Moved APRS63b off my big machine to a 386 40 and am now getting -

"String space corrupt in module APRS63X at address 12F6:CE65

Hit any key to return to system"

Does this error tell me something about my system? Havn't heard anyone else having a problem. This is the computer we are planning on using at Winterfest so let me know ASAP if you think I have a system problem.

Also, one tablet is working great and Dan is working on the other one. I have a Vienna map made and will try to uuencode it in a message.

Dan, a couple of other APRS'rs and myself will be at the Richmond Frostfest this Sunday. You going to make it?

Kent

68. Re: [APRSSIG:62] Re: unning APRS63b

From: FredMuller@aol.com
Date: Fri, 13 Jan 1995 23:13:30 -0500
To: aprssig@tapr.org
Message-ID: <950113231328_373931@aol.com>
Rendered body type: text/plain

I found the same problem, and the fix is to unzip using pkunzip -d (this puts everything in the proper directories).
Fred Muller WA6LQL

69. FUNCTION of "RELAY,GATE,etc."

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Sun, 15 Jan 1995 23:18:23 CST
To: aprssig@tapr.org
Message-ID: <0098A856.C24442B0.7@INS.INFONET.NET>
Rendered body type: text/plain

I sure could use a detailed description of the functions of the various UNPROTO commands "RELAY,GATE,WIDE,ECHO" and the pros and cons of using each and under what circumstances.
Where is the latest version of MacAPRS to be found for ftp downloading?
73;Bill

70. Re: [APRSSIG:93] FUNCTION of "RELAY,GATE,etc."

From: Tim Hayes <thayes@grimaldi.rutgers.edu>
Date: Mon, 16 Jan 1995 14:31:16 -0500
To: aprssig@tapr.org
Message-ID: <199501161931.OAA24806@grimaldi.rutgers.edu>
Rendered body type: text/plain

>I sure could use a detailed description of the functions of the various
>UNPROTO commands "RELAY,GATE,WIDE,ECHO" and the pros and cons of using
>each and under what circumstances.

First I'll give a description of the four types of digipeaters and then some discussion on how you should and shouldn't use them...

****IMPORTANT**** Don't put more than one RELAY or ECHO in a row in your UNPROTO path. Don't put more than two of ***ANY*** type in a row ever.

WIDE = For VHF use. A WIDE is a digipeater covering a large geographic area (or at least a strategic one). A station shouldn't be a WIDE if it has a small coverage area, is not up most of the time, or provides coverage over the same area as another WIDE. Two wides with the same coverage area cause lots of collisions. Avoid setting

up a WIDE unless you know it won't hurt anything.

RELAY = For VHF use. A RELAY station is a digi that does not have a large enough coverage to warrant it being called a WIDE. Most stations set their alias to RELAY so that stations with poor coverage can digi through them to a WIDE.

ECHO = For HF use. The same as RELAY.

GATE = A gateway between HF and VHF. I think most gateways repeat the packet on both VHF and HF so they can act much like RELAY or ECHO, but they also transmit on the other band as well.

* IMPORTANT: *

As for how to use these, don't *EVER* put more than two of the same type in a row. If you do then you will cause a packet storm as the packets bounce back and forth between the two stations.

With RELAY and ECHO (especially ECHO) never use more than ONE in a row or you will just cause collisions. ECHO's and RELAY's can't hear each other most of the time and will transmit on top of each other causing needless interference! GATE's and WIDE's are assumed to have a large enough coverage circle that this isn't a problem.

Use ECHO sparingly or *NOT AT ALL*. ECHO can cause lots of problems on HF because of the way the signals propagate. Using two ECHO's in a row can clog up an HF frequency really fast.

Use call signs whenever practical. On VHF "WIDE,WIDE" will give you the best coverage. If you know the call of the closest wide (look at the map!!) use the call (ie: "WA2NPP,WIDE" instead of "WIDE,WIDE".) You probably want to leave the second WIDE alone so that "WA2NPP", or whoever, can digi through all the WIDE's it can reach.

If you can't hit a WIDE directly then go through a RELAY. Once you find one that works, try using it's callsign instead of "RELAY". (ie: start out with "RELAY,WIDE,WIDE" and then when you find a good relay to use switch to using the callsign "KB2ICI,WIDE,WIDE".)

For a VHF station try "WIDE,WIDE" or "WIDE,GATE" (if there is a GATE around)

For an HF station try "GATE,WIDE"

NEVER *NEVER* *NEVER* use "WIDE,WIDE,WIDE" unless you like causing problems for others. Your packet can bounce around for a minute or more in some areas of the country (like the NY metro area!)

NEVER *NEVER* *NEVER* use "ECHO, ECHO" unless you like causing the same problems on HF.

These are general rules. Once you become familiar with your operating channel then you can perhaps break some of these rules. If you do, please check every so often to make sure nothing has changed and that it is still ok to operate that way.

(I'm not an APRS guru, but I play one on TV!)

71. Re: [APRSSIG:94] Re: FUNCTION of "RELAY,GATE,etc."

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Mon, 16 Jan 1995 22:23:02 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9501162200.A23150-a100000@acme>
Rendered body type: text/plain

Another thing to remember on setting paths is that you can save multiple paths with the "D" operations "D"igipath sa"V"e command. It shows that you can save 13 different digi paths.

A good way of seeing who you should have in your digipath is to go to the "D"igipeaters screen. On version 6.2 and above, if you are hearing another station direct there will be a "*" to the left of that station's call. You can make any of those stations your first "hop".

As normal, I probably made this seem as clear as mud.

72. TNX

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Tue, 17 Jan 1995 18:28:00 CST
To: aprssig@tapr.org
Message-ID: <0098A9C0.85CD2502.196@INS.INFONET.NET>
Rendered body type: text/plain

TNX for those tt replied with vy good descriptions of the APRS "RELAY, WIDE,ECHO<GATEWAY" commands.
That was a big help!
73, Bill

73. Map makers

From: "Craig L. Lindsey" <cll4@Ra.MsState.Edu>
Date: Wed, 18 Jan 1995 16:44:18 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950118163902.7711A-100000@Ra.MsState.Edu>
Rendered body type: text/plain

Who created the MScentrl map? I have gotten a few people interested in APRS in the area north of here (Starkville). The interested people are in Northeastern MS, and they will be wanting a little better map for that area (acutally they will want A map..there's nothing but the basic map). I would like to get in touch with whoever made the mscentrl map and see if they would be interested in making a northeast MS map. From the way it looks right now, northeast and central MS may be picking up APRS activity soon.

Thanks for any info,
Craig

Craig Lindsey - KC5AUG | My politics are simple: Always go right. If
Internet: cll4@ra.msstate.edu| you go left, you can never go right, and if
Office Phone : (601)325-8553 | you go right, you never go wrong. -Grizzard
WWW page: <http://www2.msstate.edu/~cll4/>
Finger cll4@ra.msstate.edu for PGP public key.

74. Re: [APRSSIG:97] Map makers

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Thu, 19 Jan 1995 06:49:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9501190623.A14443-a100000@acme>
Rendered body type: text/plain

I think that MSCENTL.MAP was one that Bob (WB4APR) did using the USGS CD-ROM. The 8th line of the "Map" indicates that is from the 2,000,000 to 1 ROM, and WB4APR is the most prolific CD-ROM mapmaker.

Normally I'd volunteer, but I've committed to finishing off part of Ohio covered by the Wilmington Nat. Wx. Center prior to spring, and taken on Southern MI.

But, if you know someone who would like to make maps, I'd be more than happy to help get them started.

The Ohio Map Maker - John Baum - KB8JXO

75. Re: [APRSSIG:94] Re: FUNCTION of "RELAY,GATE,etc."

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 19 Jan 1995 17:36:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950119171959.1161H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well, with a spirt of growth over the last week, with 9 WIDES between central VA and NY city, plus lots of "hidden (personal)" wides, we are starting to hear some forever packets wirling around. I saw one guy with a SEVEN line BULLETIN going via digi1,WIDE,digi2,WIDE,WIDE,WIDE. WWhen I pointed out that he is generating the potential for OVER 4000 packets every 10 minutes, I convinced him that he could cover the same area from NYCity to VA with digi1,WIDE,digi2,digi3,digi4 and that no-one would ever hear more than 2. That is a 2000 to 1 reduction in QRM by using one's head....

I also saw something like digi1,WIDE,RELAY,WIDE. Now assuming that 10 APRS stations (all acting as RELAY of course) all digipeated the packet,

AT EACH OF THE 4 WIDES THAT HEARD THE digi1 packet, then we have 40 packets then ready to hit the remaining 8 WIDES that will now all hear the 40, and you have 320 packets PER PACKET From that station. THIS IS CRAZY! NEVER use RELAY in ANY position EXCEPT THE FIRST, and once you know who is digipeating you, WHY EVEN DO IT THEN?!

RELAY is only there for areas without permanent WIDES. Once you have identified high VHF sites, they should be WIDE if anything..

Much of these problems will go away if we can get the TNC writers to implement my WIDE-N algorithm. But until then, we gotta be smart. I agree with the other comments, that if there are 3 or more WIDES that can hear each other ANYWHERE, then NEVER send a W,W,W. (27 packets result).

AND FINALLY, lets be NICE to each other... Just because someone has W,W,W in his DIGI list on the D page, dont jump on him. He might be doing something special... But after holding your breath for 5 minutes, then tell him... hi hi Similarly, I see NO reason why anyone should be using ECHO on HF (unless they are in extremis or a special event). Even then, ECHO is probably useless. He is much better off picking a far away, but solid station and using him ONLY as a digi. AGAIN, though, ONLY FOR SPECIAL. I want to encourage everyone NOT TO DIGI in general on HF, because it distroys the statistics on the HEARD LOG. That HEARD page is a valuable resource for determining propogation. If someone digipeats, then nobody knows if the band is open, or just that someone is bouncing in via a different direction. I spect this will not be the last we will hear about digipeating, hi hi.... :)

76. QTH of MacAPRS 1.2.2 et al

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Thu, 19 Jan 1995 17:22:10 CST
To: aprssig@tapr.org
Message-ID: <0098AB49.A80A3F2B.35@INS.INFONET.NET>
Rendered body type: text/plain

I chkd 128.54.16.7
and its incoming subdirectory...the latest is 1.2.1, I've seen tt a version MacAPRS 1.2.2 is out.
Where can the latest versions be ftp-ed from?
73, Bill

77. APRS Traffic MilePosts

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 19 Jan 1995 18:30:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950119182643.1917B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

A week ago, I announced the APRS telemetry system based on the N3MIM single CHIP Micro Interface Module, which is a complete AX.25 8 channel telemetry TNC (transmit only) on a chip. The original intent of this MIM module was to make a match box sized throw-away PACKET balloon payload. Now consider an application much closer to home for the APRS commuter:

TRAFFIC monitoring MILE posts! This is a neat idea! Given that HAMS will be commuting with APRS moving Map displays, why not build a match box sized traffic SPEED detector (solar powered MIM module) that can be stuck on the side of a highway pole ? With a \$1.29 crystal MIC from radio shack, use DSP to figure out the speed of the traffic based on audio analysis! Beacon this SPEED once every two minutes at about 10 mW. The beacon will, of coure, include the LOCATION of the device. What the APRS commuter sees on his MAP is these MILE posts ahead of him showing traffic speeds! He can then decide on alternate routing!

We have plenty of room in the MIM to add this DSP (maybe), IS THERE ANYONE OUT THERE THAT IS INTO DSP THAT CAN DETERMINE THE ALGORITHM TO DETERMINE SPEED FROM THE AUDIO OF TRAFFIC????????? (or the amplitude fluctuations of a photo cell?) NO Doppler X band or road sensors please, This thing has to be autonomous and VERY small to be able to be SOLAR powered and able to be COVERTLY installed with out a lot of STATE HIGHWAY bureaucracy.

To support these MILEPOSTS, I am going to add the "m" character to the APRS symbols list. It will appear something like a SIGNPOST on the map, but instead of displaying a CALLSIGN, it will dispplay a VALUE. In this case, the sign will display "60" if the traffic is moving at 60 MPH... etc. This sign post symbol can be used by other STAND ALONE packet telemetry devices that need to announce certain conditions on a map. For example, Water or FLOOD levels....

78. Re: [APRSSIG:101] APRS Traffic MilePosts

From: janderson@ram.net
Date: Fri, 20 Jan 95 09:13:32 EST
To: aprssig@tapr.org
Message-ID: <02154.15021591@RAMail>
Rendered body type: text/plain

>(or the amplitude fluctuations of a photo cell?) NO Doppler X band
>or road sensors please, This thing has to be autonomous and VERY small
>to be able to be SOLAR powered and able to be COVERTLY installed with
>out a lot of STATE HIGHWAY bureaucracy.

Actually, Doppler X band may not be a bad place to start with this. I have a 10 GHz Gunnplexer that came from a motion detector. It runs on about 6 VDC and puts out a very clean audio tone from its detector diode when it sees a moving object. The frequency of the tone represents the difference of the fundamental gunnplexer frequency and the Doppler shifted frequency of the signal bouncing off the moving object. I connect this to the input of a Radio Shack self contained audio amplifier and listen to it with headphones. Granted, it is not as small as a condensor microphone, but the output signal would be much easier to work with. These Gunnplexers are sometimes available at hamfests, and contacting some local alarm companies may have good results too.

Jack
n4uls@ram.net

79. Re: [APRSSIG:102] Re: APRS Traffic MilePosts

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 20 Jan 1995 09:43:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950120093717.4915B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Yes, I have no real problem with the SIZE of the 10Ghz gunplexor as a traffic speed sensor, but I am concerned about the POWER consumed. If I remember corectly, we are talking about lots of MA. DO you recall? Of course, since you wil only be generating a traffic speed value once every N minutes, then can the Gplexor be turned on and off relatively shortly? Probably so, since drift is meaningless, since it is only the doppler diffenrence we are listening to...

But I though we would have to monitor continuously to get a smoooth average of the traffic speed. But with something as accurate as a doppler device, then maybe that wouldnt matter either.

You are certainly correct that it would only take a few lines of code int he MIM telemetry chip to determine the audio tone!!!

Although I am no longer an interstate commuter, if I was, I WOULD be working on this for my own self interest! hi hi. Of course those guys spend so much time in their cars, that they dont have time to play circuits! oh well...

80. RE>Audio detector mileposts

From: Richard Matthews <Richard_Matthews@shsvsmtp.huntsville.sparta.com>
Date: Fri, 20 Jan 1995 09:04:59 -0600
To: aprssig <aprssig@tapr.org>
Message-ID: <199501200904596734@shsvsmtp.huntsville.sparta.com>
Rendered body type: text/plain

Audio detection can be used to accurately measure speed. I was involved in a missile test range project a few years back where we used microphones spaced at a precise distance to record the speed of a missile going about 5000' per second. Seems to me you could do the same by detecting an audio pattern taken from pickup microphones that were located a known distance apart. Distance moved in some interval of time equals speed.

wa4nww, Richard

81. Re: [APRSSIG:103] Re: APRS Traffic MilePosts

From: janderson@ram.net
Date: Fri, 20 Jan 95 10:06:36 EST
To: aprssig@tapr.org
Message-ID: <02155.15021591@RAMail>
Rendered body type: text/plain

> Although I am no longer an interstate commuter, if I was, I WOULD be
>working on this for my own self interest! hi hi. Of course those guys
>spend so much time in their cars, that they dont have time to play
>circuits! oh well...

I will donate my Gunnplexer to anyone here in the MDC area who is serious about developing a prototype. I haven't used it much lately, and I'm really not qualified to write the microcode to make it work. If anyone is interested, let me know.

Jack
n4uls@ram.net

82. Re: [APRSSIG:100] QTH of MacAPRS 1.2.2 et al

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Fri, 20 Jan 1995 12:05:35 -0500
To: aprssig@tapr.org
Message-ID: <9501201707.AA12781@peabody.sct.ucarb.com>
Rendered body type: text/plain

>I chkd 128.54.16.7
>and its incoming subdirectory...the latest is 1.2.1, I've seen tt a
>version MacAPRS 1.2.2 is out.
>Where can the latest versions be ftp-ed from?
>73, Bill

Currently, 1.2.1 at UCSD is the latest on the Internet.. 1.2.5 should be up there on Monday... (Tuesday at the latest)

Do you have ARA (AppleTalk Remote Access) If so, you can dial in to my server and get updates even more often than they get put up at Rutgers..

Keith Sproul

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: akasbb1@peabody.sct.ucarb.com
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb2ear.nj.usa
Work: 908 563-5389	AppleLink: Sproul.K
Fax: 908 563-5035	Chairman ACG-NJ Mac Users Group
Home: 908 821-4828	Author of MacAPRS

83. UPDATES TO MacAPRS

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Fri, 20 Jan 1995 11:32:24 CST
To: aprssig@tapr.org
Message-ID: <0098ABE1.F61C3E1A.209@INS.INFONET.NET>
Rendered body type: text/plain

TNX for the info Keith. I wish I had APPLE REMOTE ACCESS but don't so will wait 'til updates show up at ucsd.edu in cd /hamradio/packet/tcpip/incoming subdirectory.

73
Bill

84. Re: [APRSSIG:103] Re: APRS Traffic MilePosts

From: jcw@kd4dts.radio.org (John C. Wren)
Date: Fri, 20 Jan 1995 17:00:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <m0rVR02-0007SpC@kd4dts.radio.org>
Rendered body type: text/plain

How do you intend to handle multiple targets, and not having that blow your average? Or the doppler shift created in the window of a faster vehicle passing a slower vehicle? (I assume your talking about pointing the 'plexor into traffic, and not across...)

Seems that using using something that takes advantage of a vehicle detuning a tuned circuit or somesuch might work better...

>
> Yes, I have no real problem with the SIZE of the 10Ghz gunplexor as a
> traffic speed sensor, but I am concerned about the POWER consumed. If I
> remember corectly, we are talking about lots of MA. DO you recall? Of
> course, since you wil only be generating a traffic speed value once every

> N minutes, then can the Gplexor be turned on and off relatively shortly?
> Probably so, since drift is meaningless, since it is only the doppler
> difference we are listening to...
> But I though we would have to monitor continuously to get a smoooth
> average of the traffic speed. But with something as accurate as a
> doppler device, then maybe that wouldnt matter either.
> You are certainly correct that it would only take a few lines of code
> into the MIM telemetry chip to determine the audio tone!!!
> Although I am no longer an interstate commuter, if I was, I WOULD be
> working on this for my own self interest! hi hi. Of course those guys
> spend so much time in their cars, that they dont have time to play
> circuits! oh well...
>
>

85. Balloon launch

From: Richard Matthews <Richard_Matthews@shsvsmtplib.huntsville.sparta.com>
Date: Fri, 20 Jan 1995 16:26:40 -0600
To: aprssig <aprssig@tapr.org>
Message-ID: <199501201626407942@shsvsmtplib.huntsville.sparta.com>
Rendered body type: text/plain

The following has just been released by the ARRL

Balloon launch January 21

A balloon carrying Amateur Radio is planned for launch January 21
from Boone, Iowa, by a group calling itself the Iowa Balloon
Scientists.

Payloads will include a transmitter sending global positioning
information on 446.000 with transmissions at bursts of 9600 baud
once per second;

A packet digipeater on 145.550 (-0.600 split), running approximately
one watt and switched on and off at 15 minute intervals;

A 144/440 MHz crossband voice repeater (listen on 437.250 (plus or
minus) FM. There may be some temperature drift. The uplink
frequency is uncertain at this time and will be provided on the
packet beacon. Since this is the first flight for this payload,
there may be less than optimum operating conditions.

The packet digipeater and voice crossband repeater will alternate at
15 minute intervals, with changes planned for 00, 15, 30, and 45
minutes after the hour.

Interested amateurs are advised to monitor beacons for details on
other payloads and operating schedules.

The launch is planned for 1500 UTC. An HF coordination net will
meet on 7.155 MHz LSB beginning at 1430 UTC with N0AN as net control
station.

Information from Barry Buelow, WA0RJT.

Will this balloon be track by the APRS system? If so what plans are being made
for tracking?

wa4nww, Richard

86. Re: [APRSSIG:108] Re: APRS Traffic MilePosts

From: janderson@ram.net
Date: Fri, 20 Jan 95 21:53:56 EST
To: aprssig@tapr.org
Message-ID: <02160.15021591@RAMail>
Rendered body type: text/plain

>How do you intend to handle multiple targets, and not having that blow
>your average? Or the doppler shift created in the window of a faster
>vehicle passing a slower vehicle? (I assume your talking about pointing
>the 'plexor into traffic, and not across...)
>

>Seems that using something that takes advantage of a vehicle detuning
>a tuned circuit or somesuch might work better...

Maybe something could be done with laser diodes and detectors. I doubt that
even the most sophisticated DSP could make sense of the audio generated by a
four lane interstate. A Gunplexer pointed at one lane of traffic will

generate a strong set of signals from the traffic in that lane, and some weaker singles from the traffic in adjacent lanes.

Laser detection would be more precise, but we'd have to figure out how the pros do it.

Jack
n4uls@ram.net

87. Re: [APRSSIG:110] Re: APRS Traffic MilePosts

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 23 Jan 1995 09:42:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950123093443.4717C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well, This mornings thoughts on the Traffic Mile posts for vehicle speed detection and placement on the APRS moving map display, has flipped over to the Gunnplexor DOppler systems. I scanned a few mags, however, and cannot find any surplus or hobby electronics stores that are selling cheap motion detector gunplexors. If anyone knows of a place... Lemme know.

Yes, unfortunately, the inbound/outbound monitoring is a pain. Any one instrument, will only pick up one direction. So now you only have one marker on the map. for only one direction. The graphics that I have implemented allows a 3 digit numeral on the signpost. For example 55E would mean that this is an eastbound sensor and that the traffic is doing about 55. Actually, since COMMON CONGESTION points are RARELY symmetrical on both sides of the highway, this is not that much of a problem. The best place to put a detector (to give you advance warning at a decision point) going in in the morning will almost never be the same place where you will need another data point coming home.

Again, If anyone knows of a reproducible source of Gunn diode front ends, lemme know.

88. Re: [APRSSIG:111] Re: APRS Traffic MilePosts

From: janderson@ram.net
Date: Mon, 23 Jan 95 12:52:41 EST
To: aprssig@tapr.org
Message-ID: <02167.15021591@RAMail>
Rendered body type: text/plain

>Again, If anyone knows of a reproducible source of Gunn diode front ends,
>lemme know.

You might want to check with AMRAD. A while back they were hot and heavy into the motion detector variety and may know of a source. They were selling for about \$15. I once brought a bunch of test equipment to a tuning part they had. Dave Rogers (N4JGQ) got mine for me.

Jack
n4uls@ram.net

89. Re: [APRSSIG:111] Re: APRS Traffic MilePosts

From: janderson@ram.net
Date: Mon, 23 Jan 95 12:54:31 EST
To: aprssig@tapr.org
Message-ID: <02168.15021591@RAMail>
Rendered body type: text/plain

>Well, This mornings thoughts on the Traffic Mile posts for vehicle speed
>detection and placement on the APRS moving map display, has flipped over
>to the Gunnplexor DOppler systems. I scanned a few mags, however, and
>cannot find any surplus or hobby electronics stores that are selling cheap
>motion detector gunplexors. If anyone knows of a place... Lemme know.

Any thoughts on using laser diodes and detectors? They would be much more selective than the Gunnplexers...

Jack
n4uls@ram.net

90. Re: APRS Traffic MilePosts

From: Charles Burnett <burnett@col.hp.com>
Date: Mon, 23 Jan 95 9:14:03 MST
To: aprssig@tapr.org
Message-ID: <199501231613.AA108667623@hp.com>

Rendered body type: text/plain

> Maybe something could be done with laser diodes and detectors. I doubt that
> even the most sophisticated DSP could make sense of the audio generated by a
> four lane interstate. A Gunnplexer pointed at one lane of traffic will
> generate a strong set of signals from the traffic in that lane, and some
> weaker singles from the traffic in adjacent lanes.
>
> Laser detection would be more precise, but we'd have to figure out how the
> pros do it.

The pros have done this, so it's only a matter of finding out how.

A source for the pros is...the California Department of Transportation.
Check out the WWW page available for traffic conditions in the San Diego
area. They give information such as average vehicle speed in each lane for
the major freeways in the area. Really cool stuff. Address is:

<http://www.scubed.com:8001/caltrans/sd/sd-transnet.html>

Now if we just had high-speed internet connections in our cars....hi hi.

Charles

--

Charles Burnett	Internet: burnett@col.hp.com
Hewlett-Packard Co.	Voicemail: (719) 590-2000
Network Test Division	Voice: (719) 531-4230
P.O. Box 7050	Fax: (719) 531-4540
Colorado Springs, CO 80933-7050	

91. Re: [APRSSIG:113] Re: APRS Traffic MilePosts

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 25 Jan 1995 14:48:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950125144730.22307B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Receiving a lazer diode would be far beyond our capability I would
think. The beauty of a GUNN oscillator is that it is its own LO so just
DC goes in and audio doppler comes out. DOnno how you would get doppler
info from optical frequencies. Without some very expensive stuff....

92. MacAPRS 1.2.6

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Thu, 26 Jan 1995 10:24:06 -0500
To: ablock@nubis.rutgers.edu, dalpert@merle.acns.nwu.edu, daxenos@bu.edu,
"David P. Worrall" <70214.2530@CompuServe.COM>, Emmet2@aol.com,
heyu@aol.com, jan@archimedes.chinalake.navy.mil,
kb2ear@kb2ear.overleaf.com, rbarris@quicksilver.com,
sdimse@umbio.med.miami.edu (Steven S. Dimse), skou@inel.gov,
thayes@hardees.rutgers.edu, tstader@aol.com, wolft@dbisna.com,
wpmichel@srp.gov, ka6eyh@muncey.com, wannamaker@macnet.vpharm.com,
kc6rol@amsat.org, 72170.30@compuserve.com, delta2@infi.net,
castonj@ireq.hydro.qc.ca, lipson@ctobbs.com, rewing@mitre.org,
DwainM7367@aol.com, "Joe Moell" <joemoell@cup.portal.com>,
gpotter@collabra.com, 74736.3171@compuserve.com,
Richard H Inacker <inacker@pogo.den.mmc.com>, Sam_Lipson@Berlex.Com,
GregNel123@aol.com, ken@spacetime.mv.com,
philkeys@olympus.net (Phil Keys), Dick Mead <mead@ucs.usc.edu>,
rtm@Newton.apple.com (Bob Martin), DrewT@aol.com, KE4GNN@aol.com,
maryniak@ocean.rutgers.edu, cikedah@hinc.hawaii.gov,
Sam_Lipson@Berlex.Com, aprssig@tapr.org
Message-ID: <9501261525.AA13545@peabody.sct.ucarb.com>
Rendered body type: text/plain

MacAPRS 1.2.6 is now up at ftp.ucsd.edu

Currently it is in /hamradio/packet/tcpip/incoming.
However it may get moved to /hamradio/packet/aprs.

In the future, you need to check both places for the most recent version.
The INCOMING directory is where I am allowed to put it, then eventually, it
will get moved to the APRS directory..

Take a look at the FEB 95 issue of 73 Magazine Homeing In column. It has a
good article about the Macintosh version of APRS. It also shows a preview
of the new map files I am working on. These are maps based on the 1:100,000
scale USGS CD-ROMs and show the STREET level!!!

The JAN 95 issue of 73 Magazine has a good article on the PC version.

I will be at the Wheaton Hamfest (Chicago IL) this weekend giving talks about APRS, Skywarn, and Ballooning. If you are going to be there, please look me up.

New features in 1.2.6

- * Automatic Station Time out

This allows you to 'automatically' delete stations that have not been seen for a specified amount of time (in Hours).

- * Message Acknowledgments.

When you receive a message, it IMMEDIATELY response with the ACK. This fixes the problem of receiving two messages back-to-back and only acknowledging the last one.

- * VHF/HF recognition.

If you have a DSP-2232 or a PK-900, The STATION LIST will show you which radio-port each station came in on. It shows Port ONE in RED and Port TWO in BLUE. This has proven to be VERY useful in showing band activity, etc.

This feature is being expanded to also support KAM units, but KAM port recognition is not finished yet.

- * Some of the WEATHER logging/display has been cleaned up.

- * The Statistics window has some new features.

- * In BOTH the Weather Chart window and the STATISTICS CHART window, if you hold down the OPTION key and click in a chart, it will show you the averages and maximums.

- * Automatic Startup

The Automatic startup features have been increased to include TNC input and Weather input.

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: akasbb1@peabody.sct.ucarb.com
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb2ear.nj.usa
Work: 908 563-5389	AppleLink: Sproul.K
Fax: 908 563-5035	Chairman ACG-NJ Mac Users Group
Home: 908 821-4828	Author of MacAPRS

93. MacAPRS

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Thu, 26 Jan 1995 12:39:27 CST
To: aprssig@tapr.org
Message-ID: <0098B0A2.523C79D4.123@INS.INFONET.NET>
Rendered body type: text/plain

I suggest, with permission from TAPR, that all updates to MacAPRS and the DOS versions all be posted to the new TAPR ftp site in addition to other places.
73,
Bill

94. NTBP #6

From: Bob_Winingham@acd.org (Bob Winingham)
Date: 26 Jan 1995 22:23:29 GMT
To: aprssig@tapr.org
Message-ID: <61373.110608985@acd.org>
Rendered body type: text/plain
Subj: NTBP #6 ANNOUNCEMENT The North Texas balloon project

Orginal post on AMSAT-BB by Doug KG50A

The North Texas balloon project will launch it's sixth high altitude balloon experiment carrying amateur radio payloads on the 4th of

February, 1995. The payload carries a variety radios and instruments that can be easily used by any amateur with a Technicians license or above.

The launch will be from Cleburn or Cliffton, Texas at approximately 8:00 to 8:30 AM. In the event of inclement weather, the launch will be delayed to the next day, and then to the next Saturday (the 11th). There will be a pre-launch net at 8:30 PM on the Ft.Worth 146.76 repeater the evening before the launch. The morning of launch there will be an HF net on 7.155 MHz +/- QRM. The Net control station will probably be W5IU.

Approximately two hours after launch, the balloon is expected to reach an altitude of 100,000 to 105,000 feet before burst. At this altitude the area of visibility will be about 400 miles in any direction for a total 800 miles communications range. In past missions, there have been QSO's between Corpus Christi, TX and Salina, Kansas.

The following is a list of the available experiments onboard:

Crossband FM Voice Repeater:

There will be a crossband FM repeater open to all. The uplink frequency will be 147.580 MHz and the Downlink will be on 445.850 MHz.

Packet Telemetry on 144.290 MHz:

This receive only packed information will be the data downlink of the mission. The packet format is the common 1200 baud AFSK found in all TNC's. The data will be presented in an easy to read format and no conversions will be required.

GPS:

Precise longitude, latitude and altitude data will be provided by a donated Rockwell NavCore V GPS receiver. The following data will be measured and can be seen on the 144.290 MHz packet downlink:

* UTC day and time	* Longitude	* Latitude
* Altitude	* Bearing	* Velocity
* Velocity up		

Telemetry

There will be onboard 12 bit, 8 channel Analog to Digital converter. Seven of the eight channels are used to measure the following:

* Inside Temperature	* Outside Temperature
* Barometric Altitude	* Main Battery Voltage
* ATV Battery Voltage	* Alkaline Test Battery Voltage
* NiCad Test Battery Voltage	

ATV

There will be a live, full motion, Amateur Television camera and 10 Watt transmitter onboard. The downlink frequency will be 439.250 MHz. This frequency was chosen to exactly correspond to Cable channel # 60. With an outdoor TV antenna (or other 440 MHz antenna) and the TV tuned to Cable channel 60, it is anticipated that an acceptable pictures can be obtained.

The camera will be remotely pointed via ground command to any of 256 possible positions.

QSL's can be had through KG50A via the Callbook address.

----- -End of cross posting -----

It would be nice if a ground station could retransmit the location in APRS format via the Crossband FM Voice Repeater. This would help get APRS moving in Dallas.
Bob KC5EJK

95. Re: [APRSSIG:115] Re: APRS Traffic MilePosts

From: janderson@ram.net
Date: Fri, 27 Jan 95 07:58:30 EST
To: aprssig@tapr.org
Message-ID: <02193.15021591@RAMail>
Rendered body type: text/plain

>Receiving a lazer diode would be far beyond our capability I would
>think. THE beauty of a GUNN oscillator is that it is its own LO so just
>DC goes in and audio doppler comes out. DONno how you would get doppler
>info from optical frequencies. Without some very expensive stuff....

I don't know how it's done, but there are a number of kits and plenty of
information on how do set up lightwave communications systems with lasers.

Seems if the laser diode is modulated with a signal, then a detector used to
receive the reflected signal the two could be compared.

Perhaps the diode could be pulsed at a known rate, then the pulses recovered
by a detector, and the frequency of the pulses compared.

It's only advantage over Gunnplexers is the increased selectivity. If aimed
right at one lane, you will probably have only one set of signals to work
with.

Jack

n4uls@ram.net

96. How MacAPRS

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Sat, 28 Jan 1995 16:29:32 CST
To: aprssig@tapr.org
Message-ID: <0098B254.CBED7603.33@INS.INFONET.NET>
Rendered body type: text/plain

I hv downloaded the 1.2.6 version of MacAPRS. It has a few more enhancements.
1. How do I use or access the "enable deleted" feature I see it in the menu
as an item but how do I mark or select a station/object to be deleted and at what interval?
2. How do I "ping" in the Mac version?
73
BTW TNX for the update!

97. APRS Via FTP

From: paul@ke6et.clark.net (Paul B. Schou)
Date: Sun, 29 Jan 95 12:11:47 EST
To: aprssig@tapr.org
Message-ID: <cm0oZc1w165w@ke6et.clark.net>
Rendered body type: text/plain

The latest APRSxxxx.ZIP file will be available via anonymous ftp at
ftp.clark.net in the pub/pauls directory.

The ftp service will start o/a Feb 1, 1995 when the ARN BBS changes
software. The latest version will be posted ASAP after Bob gives it
to us.

Hillsmere Shores - Annapolis, MD USA - Sailing Capital of the World
Packet: ke6et@ke6et.md.usa.noam -- COSYSOP ARN BBS (410) 280-2503

98. Re: [APRSSIG:121] APRS Via FTP

From: Greg Jones <gjones@tenet.edu>
Date: Sun, 29 Jan 1995 13:39:42 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199501291939.NAA15660@Alice-Thurman.tenet.edu>
Rendered body type: text/plain

There is a FTP upload area as part of this SIG.....please feel free to
upload this type of software to that area....just let Keith know so he can
move it around if necessary.

ftp.tapr.org, anonymous login, /tapr/SIG/aprssig

Cheers - Greg, WD5IVD

According to Paul B. Schou:

>
> The latest APRSxxxx.ZIP file will be available via anonymous ftp at
> ftp.clark.net in the pub/pauls directory.
>
> The ftp service will start o/a Feb 1, 1995 when the ARN BBS changes
> software. The latest version will be posted ASAP after Bob gives it
> to us.
>

>
> Hillsmere Shores - Annapolis, MD USA - Sailing Capital of the World
> Packet: ke6et@ke6et.md.usa.noam -- COSYSOP ARN BBS (410) 280-2503
>
>

99. How about some more labels

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 29 Jan 1995 20:02:45 -0500 (EST)
To: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Cc: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9501292045.A5308-d101000@acme>
Rendered body type: text/plain

Downloaded APRSBETA from ARN BBS and running it on main system with the ULII on Comm 2 - no problems so far.

I am trying something different with the maps I am making for the folks up in MI. I'm using the small square symbol to show the location of smaller towns at the 16 mi range, then putting the name in at 8 mi. I figure this beat using a ton of points trying to draw the outline of the towns off of outdated maps.

This leads to the problem where I might be running out of "labels" on maps with a lot of small towns. Would it be possible to pump up the number of labels allowable in some future version ?

BTW - I'll be taking the Thursday before Dayton off to track everyone coming thru town. Stop by if ya get a chance and I'll buy ya a cup of coffee.

OHMAPS02.Zip is available for DL from both ARN BBS and APRS OHIO BBS if you haven't gotten a copy so far.

73 - John

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249

Packet address KB8JX0@W8CQK.#CMH.OH.USA

The 137th most knowledgable person about A.P.R.S.

[Attachment: lanq.map; application/octet-stream; 5,342 bytes]

100. Re: [APRSSIG:123] How about some more labels

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 30 Jan 1995 09:53:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950130095210.18584F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I notice that you have the U-II. Please let me know ASAP if it is working. Mine is showing a constant direction of 292 degrees and a constant temp of -56 degrees. Maybe I need to reset the U-II and it is NOT a problem with APRS. I cant find a bug in APRS and I didnt make any changes there, but mine is NOT working with APRSBETA....

101. Re: [APRSSIG:122] Re: APRS Via FTP

From: paul@ke6et.clark.net (Paul B. Schou)
Date: Sun, 29 Jan 1995 15:56:06 EDT
To: aprssig@tapr.org
Message-ID: <950129.155606.550.rnr.w165w@ke6et.clark.net>
Rendered body type: text/plain

aprssig@tapr.org writes:

> There is a FTP upload area as part of this SIG.....please feel free to
> upload this type of software to that area....just let Keith know so he can
> move it around if necessary.

>
> ftp.tapr.org, anonymous login, /tapr/SIG/aprssig
>

The ARN BBS has been the principal distributor for APRS software since Bob started writing it. I don't mind at all putting it up on TAPR also whenever Bob releases an update.

--

Hillsmere Shores - Annapolis, MD USA - Sailing Capital of the World

Packet: ke6et@ke6et.md.usa.noam -- COSYSOP ARN BBS (410) 280-2503

102. Re: [APRSSIG:122] Re: APRS Via FTP

From: paul@ke6et.clark.net (Paul B. Schou)
Date: Mon, 30 Jan 1995 12:50:40 EDT
To: aprssig@tapr.org
Message-ID: <950130.125040.6D2.rnr.w165w@ke6et.clark.net>
Rendered body type: text/plain

aprssig@tapr.org writes:

```
> There is a FTP upload area as part of this SIG....please feel free to
> upload this type of software to that area....just let Keith know so he can
> move it around if necessary.
>
> ftp.tapr.org, anonymous login, /tapr/SIG/aprssig
>
> Cheers - Greg, WD5IVD
>
```

Sure will, starting Feb 1 or 2.

--

Hillsmere Shores - Annapolis, MD USA - Sailing Capital of the World
Packet: ke6et@ke6et.md.usa.noam -- COSYSOP ARN BBS (410) 280-2503

103. Re: [APRSSIG:124] Re: How about some more labels

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Mon, 30 Jan 1995 20:50:08 -0500 (EST)
To: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9501302006.A29409-a100000@acme>
Rendered body type: text/plain

Yes I am using the ULII and it is working fine with APRSBETA. It is updating and beaconing out properly. I have not yet put Beta on the 8088 laptop with the LCD CGA screen. (That's why I use few points on my maps.) I did get one crash when it was doing a screen redraw yesterday. The following represents the screen at the time of crash:

```
***
LM,PM: 10      12
a,I,J,K,fdx,LDx: 0  48  1  73  0  0
X,Y,X1,Y1 134.6432  348.6307 -229.1724 -269.9749
A$ Q
c$
E$$in loop
000PP! ERR number 5      Hit ENTER to return to DOS?
```

I was in VGA Mode at the time.
I hope this helps.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

104. Wheaton Hamfest APRS Conference

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Tue, 31 Jan 1995 13:44:34 -0500
To: aprssig@tapr.org, ablock@nubis.rutgers.edu, dalpert@merle.acns.nwu.edu, daxenos@bu.edu, "David P. Worral" <70214.2530@CompuServe.COM>, Emmet2@aol.com, heyu@aol.com, jan@archimedes.chinalake.navy.mil, kb2ear@kb2ear.overleaf.com, rbarris@quicksilver.com, sdimse@umbio.med.miami.edu (Steven S. Dimse), skou@inel.gov, thayes@hardees.rutgers.edu, tstader@aol.com, wolft@dbisna.com, wpmichel@srp.gov, ka6eyh@muncy.com, wannamaker@macnet.vpharm.com, kc6rol@amsat.org, 72170.30@compuserve.com, delta2@infi.net, castonj@ireq.hydro.qc.ca, lipson@ctobbs.com, rewing@mitre.org, DwainM7367@aol.com, "Joe Moell" <joemoell@cup.portal.com>, gpotter@collabra.com, 74736.3171@compuserve.com, Richard H Inacker <inacker@pogo.den.mmc.com>, Sam_Lipson@Berlex.Com, GregNel123@aol.com, ken@spacetime.mv.com, philkeys@olympus.net (Phil Keys), Dick Mead <mead@ucs.usc.edu>, rtm@Newton.apple.com (Bob Martin), DrewT@aol.com, KE4GNN@aol.com, maryniak@ocean.rutgers.edu, cikedah@hinc.hawaii.gov, Sam_Lipson@Berlex.Com, smarks@nr.infi.net
Message-ID: <9501311842.AA05859@peabody.sct.ucarb.com>
Rendered body type: text/plain

APRS Meetings at Wheaton Hamfest Chicago, IL
Jan 29, 1995

The Wheaton Hamfest sponsored an APRS/Balloon/Skywarn series of presentations this past weekend. This Hamfest was in Villa Park, ILL a northern suburb of Chicago close to O'Hair airport.

Among the people giving these presentations where:

KA9NHL, David Chesser
N9LCI, Ed Rodgers
N9LTD, David Mullenix
WU2Z, Keith Sproul

The topics presented where:

- * Introduction to APRS (N9LCI)
- * APRS and Skywarn/Weather (WU2Z)
- * APRS and Ballooning (N9LTD & WU2Z)

Although we had somewhat of a small room, we had lots of interest and Standing-Room-Only for most of the day.

During the Skywarn/Weather discussions, we had a lot of good input from weather people, discussing weather alarms and automated ways to get weather information. I also had some good discussions off-line with some Skywarn people about what types of information they wanted and when. As a result of these discussions, I have now implemented the Weather Alarm capabilities in the Macintosh version of APRS (Version 1.3.0 which should be out later this week).

David Mullenix (N9LTD) gave a very good presentation about Ballooning in general. This was followed by computer play-backs of the GPS data from three of the balloon flights that they had done this past summer.

=====
PACCOMM INTRODUCES THE PICO PACKET.

(Note: This is being done from memory and may not be exact)

Paccomm introduced the newest and tiniest TNC! This is a little black box smaller than a pack of cigarettes, that has several different options. In its normal configuration, it will be about the same price as the Tiny-2, and it will have several add-on options.

Add On Options:

- * Second Serial Port for hooking up a GPS receiver!!!!!!
- * More Memory (up to a meg or so) for mail-box type operations

This unit is VERY HOT, and should be available by Dayton!!

(IMHO) THIS THING IS AN APRS PERSONS DREAM COME TRUE!!!!

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: akasbb1@peabody.sct.ucarb.com
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb2ear.nj.usa
Work: 908 563-5389	AppleLink: Sproul.K
Fax: 908 563-5035	Chairman ACG-NJ Mac Users Group
Home: 908 821-4828	Author of MacAPRS

105. Re: [APRSSIG:128]

From: Steve Piltz <sfp@wk0c01g3.abrfc.noaa.gov>
Date: Tue, 31 Jan 95 13:59:34 CST
To: aprssig@tapr.org
Message-ID: <m0rZ0kY-0000azC@dptspd.sat.datapoint.com>
Rendered body type: text/plain

Keith,

I have briefly taken a look at APRS63.B, and can imagine several SKYWARN applications. I have given the software to 2 emergency management directors in the area.

Here at Tulsa, we have a TEXNET node in the NWS office that is automatically fed SKYWARN information, including an ASCII file that can be used to construct a radar image. The system works great, but lacks the ability to autofoward the warning messages from the server. If this could be done, then everyone in the area on the frequency could receive the warning at once, which would be a great service to the area civil defense agencies.

Any thoughts on how APRS could handle being automatically fed data, and then rebroadcasting it to all?

--
from: Steve Piltz KA9MLL
Warning Coordination Meteorologist
National Weather Service
10159 East 11th St., Suite 300
Tulsa, Oklahoma 74128-3050
sfp@awips5.abrfc.noaa.gov

February 1995

Original source file: aprssig.9502

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1995-02/TAPR-APRS_1995-02.txt

1. Re: [APRSSIG:129] Re:

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 3 Feb 1995 13:06:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950203125420.13266F@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Concerning APRS automatically forwarding NWS bulletin info, ITS ALREADY DONE! Take a look at the NWSPARSE.bas program. I wrote it to parse incoming NWS bulletins on a COMM port and to output TO A TNC on the other COMM port all of the things that might be of interest. It automatically grabs and makes POSITION reports of the following things:

Tropical storms, hurricanes, 4, 8, 16, and 24 hour forecast positions, and anything else that it can find associated with a posit.

This program is in SOURCE code in QUICK BASIC so that ANYONE can add to it to parse anything else that can be extracted. My initial attempt was just to get it going and to show what it could be made to do. I did it for the SKYWARN guys in FLorida, clearwater, KR4US at the EOC.

It is a stand alone program that DOES NOTHING ELSE. In fact, it can share a single COMM port by bringing in NWS data on RXD and outputting to the TNC on TXD.

If anyone is going to make MODS to the program (I hope they do!) then lets coordinate so that we dont overlap our efforts. As you add additional parsing structure or otehrwise mod the code, be sure to keep track of your mods so that you can tell me. For each of you taht is making mods to this code, be sure to give it a NEW NAME and distribute it that way, so that we can all keep track of the evolution. If you keep good notes on the MODS and make it siimple for me to understand, then I will add your MODS to the distro copy...

By writing NWSPARSE.bas, I was able to take a four page NWS bulletin and extract almost all of the useful information and output it as about 6 APRS packets (position reports of the present and future posits). The first thing I would like someone to add, is to take the circles of 34, or 60 or 100 knot winds and generate APRS circles POSITS to show on the MAP!

etc.....

2. TELEMTRY and v6.5

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 3 Feb 1995 13:35:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950203132613.14196B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

OK, its done (or will be by the time you see this I hope). Version 6.5 is out after a brief BETA test. The major change was LOTS of internal moving around to make room for more code so that I could add the following:

- 1) TELEMTRY system (see TELEMTRY.txt)
 - 2) Finer resoulution text on the maps (and all other pages too)
 - 3) Uses EGA/VGA screen paging so that the MAP does NOT have to be redrawn when switching between screens! Should make 286's much more friendly!
 - 4) A new CAMAPS02.ZIP has been posted
 - 5) Even if you are not in-to the TELEMTRY, take a look at the 1/4 cubic inch 2m transmitter for \$99 from AGRELLO Engineering. Will make a VERY compact stand alone tracker. He will stock 145.79 XTALS, call him!
 - 6) Can't wait to get my hands on a PICO-TNC from PACCOMM. It is very TINY too.
 - 7) All this effort on 6.5 has delayed my progress on the single chip APRS MIC-ENCODER. But I had to make room in APRS for the new compressed APRS decoding so that I can now proceed to finish the xmission of the new compressed format... hi hi
- Enuff fo now...

3. APRS & USGS Data Files

From: csetzer@rmii.com (Craig Setzer)
Date: Fri, 3 Feb 1995 17:49:21 -0700 (MST)

To: aprssig@tapr.org
Message-ID: <m0raYgj-00046KC@rmii.com>
Rendered body type: text/plain

Greetings,

I have downloaded some USGS DLG files from their ftp site. They came in three formats, .STD, .OPT, and .GRA. I have tried to use the MAPFIX program from the APRS6.2 software zip but the program crashes with an ERROR 15.

My question is, "Does anyone have any experience using these files with aprs software? If so, would you email me. I am trying to create more detailed maps for Colorado.

Thanks in advance,

Craig Setzer
csetzer@rainbow.rmii.com

4. Updates?

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Sat, 04 Feb 1995 13:37:15 CST
To: aprssig@tapr.org
Message-ID: <0098B7BC.E34547C3.154@INS.INFONET.NET>
Rendered body type: text/plain

Anymore updates to the MacAPRS software? I thought I saw ver 1.3.0 mentioned.

I looked on 128.54.16.7 "incoming" latest there is 1.2.6.

5. Re: [APRSSIG:132] APRS & USGS Data Files

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sat, 4 Feb 1995 19:02:14 -0500 (EST)
To: Craig Setzer <csetzer@rmii.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9502041911.A23379-b100000@acme>
Rendered body type: text/plain

The Mapfix program uses the OPT files, and requires the XTRACT.EXE program to get the needed information from the files for the 1:2,000,000 files. To use the 1:100,000 files, you will need to run the infomation thru either WB4APR's 100toGRF.bas or W7KKE's CONV100.bas (I've had better luck with CONV100.bas).

The first time I tried making maps this way, it took a couple of days to figure out how to do it. (The docs always makes it seem easier than it is, just like the DF functions...hi...hi.)

I tried this route for map making a couple of times, but found the results were O.K., but not real impressive. It takes a lot of time to go thru and get the points down (now your allowed 3500 points, I remeber when I was scolded for using almost a 1000 points, my how times change.. ;-)).

Keep trying, go over the CD-ROM.TXT, MAPS.TXT, and README.100 file for hints and tips, and good luck,

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

6. Re: [APRSSIG:133] Updates?

From: Tim Hayes <thayes@hardees.rutgers.edu>
Date: Sat, 04 Feb 1995 22:59:46 -0500
To: aprssig@tapr.org
Message-ID: <199502050359.WAA02953@hardees.rutgers.edu>
Rendered body type: text/plain

>Anymore updates to the MacAPRS software? I thought I saw ver 1.3.0
>mentioned.
>I looked on 128.54.16.7 "incoming" latest there is 1.2.6.

I think Keith plans on releasing 1.3.0 on monday morning. A couple of us are beta-ing it right now.

Cool new feature: the "Weather List" window- gives you quick access to all rcvd wx data.

7. Re: [APRSSIG:131] TELEMTRY and v6.5

From: "Craig L. Lindsey" <cll4@Ra.MsState.Edu>
Date: Sat, 4 Feb 1995 23:58:08 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950204235614.888A-100000@Ra.MsState.Edu>
Rendered body type: text/plain

On Fri, 3 Feb 1995, Robert Bruninga wrote:

> OK, its done (or will be by the time you see this I hope). Version 6.5
> is out after a brief BETA test. The major change was LOTS of internal
> moving around to make room for more code so that I could add the following:

I haven't been able to find this yet. Where is it?

Thanks,
Craig

Craig Lindsey - KC5AUG | My politics are simple: Always go right. If
Internet: cll4@ra.msstate.edu| you go left, you can never go right, and if
Office Phone : (601)325-8553 | you go right, you never go wrong. -Grizzard
WWW page: <http://www2.msstate.edu/~cll4/>
Finger cll4@ra.msstate.edu for PGP public key.

8. Re: [APRSSIG:136] Re: TELEMTRY and v6.5

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 5 Feb 1995 11:20:43 -0500 (EST)
To: "Craig L. Lindsey" <cll4@Ra.MsState.Edu>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9502051134.A20691-a100000@acme>
Rendered body type: text/plain

On Sun, 5 Feb 1995, Craig L. Lindsey wrote:

> I haven't been able to find this yet. Where is it?

I pick up my copy from the ARN BBS in Md Saturday morning (410-280-2503)
and have posted copies on my LL BBS.

There are three "flavors" APRS65.Zip, the full version (1385K), 62to65.zip
(568K) and 63Bto65.zip (344K). I don't know if it has managed to hit the "net"
but if so it would be at @muncey.com ip 140.174.180.1 in Public\APRS.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

9. MacAPRS 1.3.0 Is up on ftp.ucsd.edu

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Mon, 6 Feb 1995 08:47:37 -0500
To: ablock@nubis.rutgers.edu, dalpert@merle.acns.nwu.edu, daxenos@bu.edu,
"David P. Worrall" <70214.2530@CompuServe.COM>, Emmet2@aol.com,
heyu@aol.com, jan@archimedes.chinalake.navy.mil,
kb2ear@kb2ear.overleaf.com,
sdimse@newssun.med.miami.edu (Steven S. Dimse), skou@inel.gov,
thayes@hardees.rutgers.edu, tstader@aol.com, wolft@dbisna.com,
wpmichel@srp.gov, ka6eyh@muncey.com, wannamaker@macnet.vpharm.com,
kc6rol@amsat.org, 72170.30@CompuServe.COM, delta2@infi.net,
castonj@ireq.hydro.qc.ca, lipson@ctobbs.com, rewing@mitre.org,
DwainM7367@aol.com, "Joe Moell" <joemoell@cup.portal.com>,
gpotter@collabra.com, 74736.3171@CompuServe.COM,
Richard H Inacker <rinacker@omni.voicenet.com>, Sam_Lipson@Berlex.Com,
GregNel123@aol.com, ken@spacetime.mv.com,
philkeys@olympus.net (Phil Keys), Dick Mead <mead@skat.usc.edu>,
rtm@Newton.apple.com (Bob Martin), DrewT@aol.com, KE4GNN@aol.com,
maryniak@ocean.rutgers.edu, cikedah@hinc.hawaii.gov,
Sam_Lipson@Berlex.Com, smarks@nr.infi.net, aprssig@tapr.org
Message-ID: <9502061349.AA12458@peabody.sct.ucarb.com>
Rendered body type: text/plain

MacAPRS 1.3.0 is now up on ftp.ucsd.edu.

Most of the new features of 1.3.0 involve weather. These include:

- * High Wind Alarm
- * High and Low Temperature Alarms
- * High DELTA TEMPERATURE Alarm

* Weather Station List. This is a window that displays ONLY stations that are weather related AND it shows all of the known weather information about each station. It also shows the last time the WEATHER information was reported.

Weather Alarms:

If you have a PEET BROS Ultimeter II, it will alarm for LOCAL alarm conditions, and it will automatically send out the WX packet immediately. It will also give you alarms if any OTHER stations report weather conditions that exceed your settings. If a station reports a condition that exceeds your alarm limits, it will be displayed as a RED circle ICON with WX in the center. (instead of the normal blue circle). If the Weather alarm condition goes away, the icon will change back to blue.

The DELTA TEMPERATURE Alarm detects the CHANGE in temperature over time. The recommended value is 10 degrees in 10 minutes. If the program sees a change in temperature that is GREATER than this, it will alarm.

Other new features...

* Dead Reckoning.

If a station reports a course and speed, the program will display (via BLUE DOTS) where the station WOULD be at the a later time. This is done on the minute, and ONLY on the currently active map window. Dead Reckoning will change/improve in the future, this is a first pass at getting this information displayed.

* Circle/Line/Triangle/Box

The PC version has supported a station type that can actually displays a shape. The Macintosh version now supports this.

- 0 - Circle
- 1 - Line
- 2 - Line
- 3 - Triangle
- 4 - Box

This is station type 'l' (Lowercase L) the information following the StaionType character describes the type/size/color of the shape.

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: ksproul@noc.rutgers.edu
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb2ear.nj.usa
Home: 908 821-4828	
	Chairman ACG-NJ Mac Users Group
Work: 908 563-5389 (till 2/17)	Author of MacAPRS

NOTE: As of 2/17/95 my E-Mail address changes to:

ksproul@noc.rutgers.edu

10. Re: [APRSSIG:132] APRS & USGS Data Files

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 6 Feb 1995 09:58:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950206095141.22681B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Glad to hear that the USGS data is available on the Internet. Be sure to use the GRAphics format files. Hummh... There is no such error as ERROR-15 in QBasic????? Tell me more.

I was just using MAPFIXER last night to make a map of E. Kentucky and North PA, and had no problems. Be sure these .GRA files are from the 2,000,000 to one DLG data base.

Even if they are from a different database, as long as they are .GRA files, they should work....

When APRS asks you what FEATURE type (WB,RD,ST,etc) just hit RD for roads. Then when it asks you for the path INCLUDING THE s0#_ that means for you to include the path to the file and to include the first part of the DLG file name all the way up to the Underline character. Then MAPFIX adds the ...RD.GRF to complete the file name. For example your two responses will be RD and \Qbasic\MAPS\S06_ and that will result in MAPFIX loading the file named \QBASIC\MAPS\S06_RD.GRF

Hope that helps....

11. Re: [APRSSIG:134] Re: APRS & USGS Data Files

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 6 Feb 1995 10:11:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950206100736.22681E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

In his REPLY about USGS maps, KB8JXW correctly points out that the 100,000-1 maps are in the .OPT (optional) format. That is the reason for the CONV100.bas program written by W7KKE to convert those map files into the .GRA format used by MAPFIXER.bas. Other notes:

MAPFIXER is just a newer MAPFIX that used the finer VGA text. Use MAPFIXER from now on, unless you only have a CGA or OLD EGA PC, then you will need to stay with MAPFIX.

To RE-CAP, MAPFIXER only operates directly on .GRA formatted DLG files...

12. Re: [APRSSIG:136] Re: TELEMTRY and v6.5

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 6 Feb 1995 10:12:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950206101211.22681F@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

First APRS postings are always on 410 280-2503.

13. Re: [APRSSIG:138] MacAPRS 1.3.0 Is up on ftp.ucsd.edu

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 6 Feb 1995 10:20:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950206101902.22681H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

You will also need to add a RANGE to your WX alarms. You dont want CANADIAN stations tripping off the 32 degree alarm in South Florida all the time. The PC version has a settable RANGE function in its WX alarm menu. I think I had defaults of something like 128 miles for VHF and 1024 miles for HF, dont remeber exactly...

14. Re: [APRSSIG:131] TELEMTRY and v6.5

From: csheel@violin.aix.calpoly.edu
Date: Mon, 6 Feb 1995 11:56:39 -0800
To: aprssig@tapr.org
Message-ID: <9502061956.AA71281@violin.aix.calpoly.edu>
Rendered body type: text/plain

Does anyone have the number for AGRELL0 Engineering?

Thanks

15. Realtime playback

From: Bob_Winingham@acd.org (Bob Winingham)
Date: 06 Feb 1995 14:02:53 GMT
To: aprssig@tapr.org
Message-ID: <3644915678.26925272@acd.org>
Rendered body type: text/plain

Realtime playback mode.

I am planning to make a real time demo using MacARPS by feeding a APRS log file into the computer modem port normally used by the packet TNC.

I want to used only one computer so I plan to have one port of a 4 port I/O card as the output and jumper that to the Mac modem port.

I need a 20 or 30 lines sample MacAPRS formatted log file that has position and some sample weather data.

When I use the sample log files from the IBM version of APRS and the "Open APRS data" menu command I only see DX stations plotted on the MAP. The two playback formats do not seem to be compatible.

Please E-Mail a sample MacAPRS text log file.

Thanks
73
Bob KC5EJK Dallas

16. Autoforwarding NWS Bulletins

From: Steve Piltz <sfp@wk0c01g3.abrfc.noaa.gov>
Date: Mon, 6 Feb 95 16:00:24 CST
To: aprssig@tapr.org
Cc: sfp@wk0c01g3.abrfc.noaa.gov
Message-ID: <m0rbblUm-00015vC@dptspd.sat.datapoint.com>
Rendered body type: text/plain

Robert,

I apparently didnot get NWSPARSE.BAS with my version of APRS63B.zip, although I did see the ability to plot obsevatons. The application I am thinking of utilizes the autoforwarding and WIDE feature of APRS, but does not have to plot anything, at least initially. I am curious about just passing the NWS products intact, and having them available to many folks at once.

Will passing the entire product intact cause problems (ie channel loading, buffer/storage sizes etc.)?

--

from: Steve Piltz, WCM
National Weather Service
10159 East 11th St., Suite 300
Tulsa, Oklahoma 74128-3050
sfp@awips5.abrfc.noaa.gov

17. Re: [APRSSIG:145] Autoforwarding NWS Bulletins

From: csetzer@rmii.com (Craig Setzer)
Date: Mon, 6 Feb 1995 15:53:22 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <m0rbcJ8-0004MnC@rmii.com>
Rendered body type: text/plain

Steve Piltz wrote:

> I apparently didnot get NWSPARSE.BAS with my version of APRS63B.zip, although
> I did see the ability to plot obsevatons. The application I am thinking of
> utilizes the autoforwarding and WIDE feature of APRS, but does not have to
> plot anything, at least initially. I am curious about just passing the
> NWS products intact, and having them available to many folks at once.
>
> Will passing the entire product intact cause problems (ie channel loading,
> buffer/storage sizes etc.)?
>

Steve, here in Colorado the Denver WFO includes a series of LAT/LON locations for the weather hazard in question at the end of the statements. I was wondering 1) if all WFOs will have LAT/LON data at the end of the statements/warnings and 2) if that info can be used by the APRS software to also plot the weather hazzard in question? (This is more of a question for the APRS builders/designers)

Craig

Craig Setzer

Internet: csetzer@rmii.com
HAM Radio: KB0MXQ

--You'll find me in the bear's cage...

18. MacAPRS 1.3.1

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Tue, 7 Feb 1995 08:08:38 -0500
To: ablock@nubis.rutgers.edu, dalpert@merle.acns.nwu.edu, daxenos@bu.edu,
"David P. Worrall" <70214.2530@CompuServe.COM>, Emmet2@aol.com,
heyu@aol.com, jan@archimedes.chinalake.navy.mil,
kb2ear@kb2ear.overleaf.com,
sdimse@newssun.med.miami.edu (Steven S. Dimse), skou@inel.gov,
thayes@hardees.rutgers.edu, tstader@aol.com, wolft@dbisna.com,
wpmichel@srp.gov, ka6eyh@muncey.com, wannamaker@macnet.vpharm.com,
kc6rol@amsat.org, 72170.30@CompuServe.COM, delta2@infi.net,
castonj@ireq.hydro.qc.ca, lipson@ctobbs.com, rewing@mitre.org,
DwainM7367@aol.com, "Joe Moell" <jmoell@cup.portal.com>,
gpotter@collabra.com, 74736.3171@CompuServe.COM,
Richard H Inacker <rinacker@omni.voicenet.com>, Sam_Lipson@Berlex.Com,
GregNel123@aol.com, ken@spacetime.mv.com,
philkeys@olympus.net (Phil Keys), Dick Mead <mead@skat.usc.edu>,
rtm@Newton.apple.com (Bob Martin), DrewT@aol.com, KE4GNN@aol.com,
maryniak@ocean.rutgers.edu, cikedah@hinc.hawaii.gov,
Sam_Lipson@Berlex.Com, smarks@nr.infi.net, aprssig@tapr.org
Message-ID: <9502071305.AA13153@peabody.sct.ucarb.com>
Rendered body type: text/plain

There was a very minor bug in 1.3.0 that was due to the change in the
Position output.. This did NOT interfere with the operation of the program.

The bug was that the STATION SETTINGS DIALOG BOX would not let you change
your station settings. This has been fixed. 1.3.1 is now up on:

ftp.ucsd.edu /hamradio/packet/tcpip/incoming.

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: ksproul@noc.rutgers.edu
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb2ear.nj.usa
Home: 908 821-4828	
	Chairman ACG-NJ Mac Users Group
Work: 908 563-5389 (till 2/17)	Author of MacAPRS

NOTE: As of 2/17/95 my E-Mail address changes to:

ksproul@noc.rutgers.edu

19. Re: [APRSSIG:143] Re: TELEMTRY and v6.5

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 7 Feb 1995 11:34:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950207113300.6642B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

the number is 518-381-1058

They have a 1-800 number but I cant find it. When you call them, how bout
telling us all the 1-800 #. TNX.

On Mon, 6 Feb 1995 csheel@violin.aix.calpoly.edu wrote:

> Does anyone have the number for AGRELLO Engineering?
>
> Thanks
>

20. Re: [APRSSIG:146] Re: Autoforwarding NWS Bulletins

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 7 Feb 1995 11:44:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950207113819.6642C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Two stations were talking about trasnmitting NWS bulletins intact in
their original VERBOSE format via APRS WIDE digipeaters. THIS cannot
work, for two reasons:

- 1) APRS only saves the latest SINGLE line per station BEACONS
and only permits a maximum of a 9 line bulletin from any one
station.
- 2) The NWS bulletins that I have seen are quite WORDY and would just
congest the network.

In our area they are transmitting the bulletins on 163.65 MHz using
straight ASCII at 1200 baud. Most TNC's can be set to ASCII mode and

receive these text bulletins directly. Why waste amateur freqs to retransmit something that is already being transmitted at several hundred watts from a great location? BUT I AM TOLD THIS IS EXPERIMENTAL. DO OTHER AREAS GET VHF NWS DATA BROADCASTS??? TOO??? If not, then how do you get these bulletins?

21. Re: [APRSSIG:149] Re: Autoforwarding NWS Bulletins

From: John Chapman <jwc@col.hp.com>
Date: Tue, 7 Feb 95 10:00:24 MST
To: aprssig@tapr.org
Message-ID: <199502071700.AA0812542792@mssjwc.col.hp.com>
Rendered body type: text/plain

>
> T
> 2) The NWS bulletins that I have seen are quite WORDY and would just
> congest the network.
> In our area they are transmitting the bulletins on 163.65 MHz using
> straight ASCII at 1200 baud. Most TNC's can be set to ASCII mode and
> receive these text bulletins directly. Why waste amateur freqs to
> retransmit something that is already being transmitted at several hundred
> watts from a great location? BUT I AM TOLD THIS IS EXPERIMENTAL. DO
> OTHER AREAS GET VHF NWS DATA BROADCASTS??? TOO??? If not, then how do
> you get these bulletins?
>
>
Not xmitted in this area (COLO). We get selected NWS bulletins off
"The Wire" and xmitt them into our ARES/RACES "Cluster Nodes"
John, NØKIC

22. Re: [APRSSIG:146] Re: Autoforwarding NWS Bulletins

From: Steve Piltz <sfp@wk0c01g3.abrfc.noaa.gov>
Date: Tue, 7 Feb 95 11:03:52 CST
To: aprssig@tapr.org
Message-ID: <m0rbtLW-0001dRC@dptspd.sat.datapoint.com>
Rendered body type: text/plain

Craig,

The AWIPS era warning generation software, used at Denver and Norman, do that and should be easily used by APRS. As AWIPS gets deployed, more offices will have that in their warnings, but AWIPS deployment will be gradual over many years.

By the way, didnt I used to see you in the background in St. Louis on TV2 with Dave Murray years ago?

--
from: Steve Piltz, WCM
National Weather Service
10159 East 11th St., Suite 300
Tulsa, Oklahoma 74128-3050
sfp@awips5.abrfc.noaa.gov

23. Re: [APRSSIG:149] Re: Autoforwarding NWS Bulletins

From: kirk@neptune.gsfc.nasa.gov (Robert Kirk)
Date: Tue, 07 Feb 1995 12:17:31 -0500
To: aprssig@tapr.org
Message-ID: <9502071720.AA27071@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 10:49 AM 2/7/95 -0600, Robert Bruninga wrote:
>

[...]

>In our area they are transmitting the bulletins on 163.65 MHz using
>straight ASCII at 1200 baud. Most TNC's can be set to ASCII mode and
>receive these text bulletins directly. Why waste amateur freqs to
>retransmit something that is already being transmitted at several hundred
>watts from a great location? BUT I AM TOLD THIS IS EXPERIMENTAL. DO
>OTHER AREAS GET VHF NWS DATA BROADCASTS??? TOO??? If not, then how do
>you get these bulletins?

This is "experimental" and is in the Wash DC area only. At 1200 baud, you must listen and store all day as the raw data come in, and then you can call software to plot the appropriate maps. A local Maryland radio store has written a

sophisticated plot package for the data, or you can get a simpler package free from NWS. Note that this means you have to tie up one radio/TNC/computer full time. The other problem is that the commercial weather services such as Accuweather and more, who make the maps for your evening TV news are kicking like mad that the gov't is giving away free data that they must pay for. (They don't pay for the data but for dedicated high speed lines & computers at the NWS.) The Weather Service will try to expand the service, but may not be allowed to in view of the opposition. A good article treating this appeared in a recent Baltimore Sun - the source of my information. I did look over the commercial software and they did do a high quality job, but it still seems to be in a beta version.

(By the way, Bob, I can hear the packets @ 163.65 but they're not making it through my TNC; are you sure it's straight ascii?)

Bob Kirk
N30ZB

24. Re: [APRSSIG:149] Re: Autoforwarding NWS Bulletins

From: Steve Piltz <sfp@wk0c01g3.abrfc.noaa.gov>
Date: Tue, 7 Feb 95 11:24:48 CST
To: aprssig@tapr.org
Message-ID: <m0rbtfg-0001eaC@dptspd.sat.datapoint.com>
Rendered body type: text/plain

There are a few experimental text transmissions from NWS offices in the country. Our packet transmissions here is also experimental in nature. The only official way to receive text info direct from the NWS is via a satellite downlink that costs the user \$130/month. This cost is more than many civil defense agencies can spend, so locally, we are looking for other means. I am aware of several groups in the country using ASCII transmissions, and they work well, but their range is limited. Our office covers about 125 mile radius around it. I have been kicking around ideas about how to marry the wide coverage of packet, with the direct nature of an ASCII broadcast.

There is one possibility I can think of. Our warnings contain coding that indicates the type of warning, the county affected and the expiration time. >From this a beacon message could be constructed. Any thoughts on this concept?

Thanks for all the input.

--

from: Steve Piltz / KA9MLL
Warning Coordination Meteorologist
National Weather Service
10159 East 11th St., Suite 300
Tulsa, Oklahoma 74128-3050
sfp@awips5.abrfc.noaa.gov

25. TINY-TINY Balloon transmitters

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 7 Feb 1995 17:27:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950207172132.16211A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Agrello Engineering has agreed (and has already ordered) 100 XTALs on the APRS frequency of 145.79 for their 0.25 cubic inch 500 mw Two meter transmitter. I just talked to him again, and he is also willing to stock the 144.34 MHz Balloon frequency IF THERE IS ENOUGH DEMAND.

I remember 144.34 as the balloon frequency 2 years ago when we launched our last balloon.. The purpose of this message is to ask all of you out there to CONFIRM that this is a STANDARD (or maybe just POPULAR) Balloon frequency. Lemme know if you agree.

If there is enough demand, then the crystals sotcked will be
145.79 APRS
144.34 Ballooon
146.565 Fox Hunters (Im' doing this one from memory, may not be correct)

THere 800 number is 1-800-588-4300. Ooops, make that THEIR, not THERE.

26. Re: [APRSSIG:143] Re: TELEMTRY and v6.5

From: George Vincent Chapek <chapeg@rpi.edu>
Date: Tue, 7 Feb 1995 17:49:42 -0500
To: aprssig@tapr.org

Message-ID: <199502072249.RAA15522@alum01.its.rpi.edu>
Rendered body type: text/plain
Agrelo Engineering 518 381-1057 Voice 518 381-1058 Fax

27. Re: [APRSSIG:152] Re: Autoforwarding NWS Bulletins

From: janderson@ram.net
Date: Tue, 07 Feb 95 18:48:25 EST
To: aprssig@tapr.org
Message-ID: <02253.15021591@RAMail>
Rendered body type: text/plain

>(By the way, Bob, I can hear the packets @ 163.65 but they're not making it
>through my TNC; are you sure it's straight ascii?)
>
>Bob Kirk
>N30ZB

I was under the impression that this data is compressed and is decompressed
on the fly by the Data Engine component of the software. I too have tried to
decode it with a TNC and had no luck. I had to fiddle with the TNC to get
some data coming through, then it was garbage. I doubt they are using any
kind of AX.25.

Jack
n4uls@ram.net

28. Re: [APRSSIG:154] TINY-TINY Balloon transmitters

From: akasbbl@peabody.sct.ucarb.com (Keith Sproul)
Date: Wed, 8 Feb 1995 07:48:03 -0500
To: aprssig@tapr.org
Cc: daveka9nh1@aol.com
Message-ID: <9502081250.AA07242@peabody.sct.ucarb.com>
Rendered body type: text/plain

>Agrello ENgineering has agreed (and has already ordered) 100 XTALs on the
>APRS frequency of 145.79 for their 0.25 cubic inch 500 mw Two meter
>transmitter. I just talked to him again, and he is also willing to stock
>the 144.34 MHz Balloon frequency IF THERE IS ENOUGH DEMAND.
>
> I remember 144.34 as the balloon frequency 2 years ago when we
>launched our last balloon.. The purpose of this message is to ask all of
>you out there to CONFIRM that this is a STANDARD (or maybe just POPULAR)
>Balloon frequency. Lemme know if you agree.
>
>If there is enough demand, then the cystals sotcked will be
>145.79 APRS
>144.34 Balloon
>146.565 Fox Hunters (Im' doing this one from memory, may not be correct)
>
>There 800 number is 1-800-588-4300. Ooops, make that THEIR, not THERE.

I feel it would be better to put the BALLOONS on 145.79 because then more
people would be able to see what is going on..

On the other hand, if the freq was too busy in an area, it might also cause
problems.. I would like to hear other peoples comments too..

Keith Sproul

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: ksproul@noc.rutgers.edu
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb2ear.nj.usa
Home: 908 821-4828	
	Chairman ACG-NJ Mac Users Group
Work: 908 563-5389 (till 2/17)	Author of MacAPRS

NOTE: As of 2/17/95 my E-Mail address changes to:

ksproul@noc.rutgers.edu

29. Join

From: Kent Larson <klarson@access.digex.net>
Date: Thu, 9 Feb 1995 08:11:19 -0500 (EST)
To: APRSSIG <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950209080947.21675A-100000@access1.digex.net>

Rendered body type: text/plain

I forget what I put in the body of the message to join this SIG. Any help would be appreciated.

Thanks

30. BAYPAC/BAYCOM TNC with APRS?

From: isham@jeremy.ecs.umass.edu
Date: Thu, 09 Feb 95 14:59:57 -0500
To: aprssig@tapr.org
Message-ID: <9502092000.AA26613@jeremy.ecs.umass.edu>
Rendered body type: text/plain

I recently purchased a BAYPAC TNC and wondered if anyone has had any luck getting these to work with APRS. If so, what did you select for baud rate and TNC type (AEA, KAM, TAPR, etc)?

Sorry if this is a real silly question, but I was hoping to take an educated guess before trying a brute force attack of all the possibilities.

John, N1QLM

31. Re: [APRSSIG:159] BAYPAC/BAYCOM TNC with APRS?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 9 Feb 1995 15:16:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950209151529.7963A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

FORget the BAYCOM. it is NOT a TNC. it is a modem and your PC becomes the TNC through software.

APRS talks to TNC's. Sorry

32. Re: [APRSSIG:159] BAYPAC/BAYCOM TNC with APRS?

From: akasbb1@peabody.sct.ucarb.com (Keith Sproul)
Date: Thu, 9 Feb 1995 15:20:23 -0500
To: aprssig@tapr.org
Message-ID: <9502092023.AA14569@peabody.sct.ucarb.com>
Rendered body type: text/plain

>I recently purchased a BAYPAC TNC and wondered if anyone has had any luck
>getting these to work with APRS. If so, what did you select for baud rate
>and TNC type (AEA, KAM, TAPR, etc)?
>
>Sorry if this is a real silly question, but I was hoping to take an educated
>guess before trying a brute force attack of all the possibilities.
>
>John, N1QLM

The APRS programs (Both PC & Mac) Expect the data formats coming from TAPR/TNC-2 compatible TNCs. The Baycom modem only speaks KISS which APRS does not support.

I have considered doing KISS support in the Macintosh version, but due to the complexity of this and the higher priorities of other things, have not gotten to it yet..

Keith Sproul

Keith Sproul	Amateur Radio: WU2Z
698 Magnolia Road	Internet: ksproul@noc.rutgers.edu
North Brunswick, NJ 08902-2647	Packet Radio: wu2z@kb2ear.nj.usa
Home: 908 821-4828	
	Chairman ACG-NJ Mac Users Group
Work: 908 563-5389 (till 2/17)	Author of MacAPRS

NOTE: As of 2/17/95 my E-Mail address changes to:

ksproul@noc.rutgers.edu

33. subscribing again

From: Kent Larson <klarson@access.digex.net>
Date: Sat, 11 Feb 1995 12:20:21 -0500 (EST)

To: APRSSIG <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950211121949.9721A-100000@access1.digex.net>
Rendered body type: text/plain
subscribe

34. DOCS

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Sat, 11 Feb 1995 15:11:23 CST
To: aprssig@tapr.org
Message-ID: <0098BD4A.32CEA8D8.47@INS.INFONET.NET>
Rendered body type: text/plain

The following comment was extracted from a msg sent to me
by a friend after he tried the APRS program on a DOS machine.

"...He's going to have to come up with better introductory
documentation before I pay that much for this program.
So it's been interesting but not very promising for me."

I can imagine how the authors feel abt documentation. It is
so-o-o-o "unproductive". The time spent writing docs cud be
put to much better use wrkg on more features in the program!

However, my friend does have a point and I thought I'd pass along
his remarks.
73, Bill

35. Re: [APRSSIG:163] DOCS

From: mxdp!twade@mxdp.afsv.af.mil (Tom Wade)
Date: Sat, 11 Feb 95 20:17:31 CST
To: aprssig@tapr.org
Message-ID: <9502120217.AA19956@mxdp.afsv.af.mil>
Rendered body type: text/plain

I have experienced the same thing here. I thing the most of the program
but the docs are most confusing.

Tom - N9CDQ

36. (no subject)

From: "Hovland,D Amn 27CS/SCSD" <HOVLANDD@cs27.cannon.af.mil>
Date: Mon, 13 Feb 95 08:52:00 mst
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2F3F1E1B@cs27.cannon.af.mil>
Rendered body type: text/plain
subscribe

37. Re: [APRSSIG:163] DOCS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 13 Feb 1995 11:26:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950213110237.29683B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Comments regarding documentation:

I get comments from people saying that the problem with APRS is that
it is poorly documented. They want me to write a HOW TO document to make
it easy for a neophyte to get on line.

One of the reason that I have not done this, is because the last
thing APRS needs is another .TXT file that NO ONE will read! There are
over 2 dozen APRS readme files covering every subject. APRS is one of
the most documented programs you can find.

On the distribution disk you get README.NOW. THAT IS WHERE TO BEGIN!

README.NOW Tells you how to unzip APRS and start the program

README.1st Then provides the overall "WELCOME NEW USER" and provides
an INDEX to all of the other readme files.

APRS.DOC Provides the overall view and mission of APRS

HELP.TXT Provides detail information on EVERY one of the 120+

commands and functions in APRS.

Further files then focus on particular applications:

```
GPS.txt - For interfacing your GPS
WX.txt  - For weather reporting
DF.txt  - For Direction Finding
HF.txt  - For HF tracking
etc...etc....etc...
```

If anyone can tell me a better way (other than just adding MORE text) to get people to RTFM, I would like to know! Seriously, I have sat down several times to write a simplified summary (cookbook) for new users, but it always comes out the same.... There is just too much that needs explaining and too much background.... What I end up with is just referring to the appropriate README files, and then I have not simplified it at all, but just added more words! Someone sent me a 10 page step-by-step "press this key, then move the cursor, then press this key...." type instruction manual which was his solution. To me, it was so detailed and involved with the minutiae that in my opinion no-one would ever get all the way through it... And all it does is ADD to the README's!

If someone could tell me what they think is missing or how to present it better than the README.NOW and then README.1st scenario, then I would really like to hear it and to do it...

Please do not take this as a FLAME, if I sound frustrated, its because I have NOT been able to figure out how to make it any easier. I have had literally DOZENS of people say that they are going to re-write the DOCS into a more user friendly manual. EVERYONE of them has ultimately come back and said that after they got started, and then learned more and more of APRS capabilities, that their simplification got too complicated and they abandoned their efforts.

My last attempt at fixing this problem was to add the INDEX.txt file. All it does is say SEE README.1st! (which contains the list of all files and a one-line summary of their contents...

38. MAPS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 13 Feb 1995 11:45:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950213113717.29683D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I have spent the last week breaking apart the standard APRS distro of maps into an EAST and WEST version. This is so I can provide users with more maps appropriate to their area. But this E/W distribution still only contains the maps that I have put together. They do NOT contain the very detailed MAP subsystems from OHIO, MISSOURI. And as I need more room, many of the CALIF, ALASKA and TEXAS maps will also be removed. THis weekend I finished off TEXAS to the 2,000,000 scale and so the following list shows all of the MAP systems currently available:

MAPLIST.E, W, AK, CA, MN, MO, IA, OH, TX

Following the guidelines in XTRAMAPS.txt these map sub-systems should be very easy to integrate into your system...

39. Re: [APRSSIG:166] Re: DOCS

From: Lance Halle <lanceh@crl.com>
Date: Mon, 13 Feb 1995 16:46:05 -0800 (PST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950213163405.23954A-100000@crl8.crl.com>
Rendered body type: text/plain

Here is a suggestion from a new (but successful) APRS user. All those individual files are a bit intimidating at first. To the newcommer, those file names don't mean much. Once you get going, it's not bad to look for the file you want, BUT i think it would be better to combine them into one large (manual) with the "index.txt" as the table of contents, and a first (chapter) dealing with getting started.

That first chapter should be just enough to get on line for someone who doesn't want to read the entire manual first. You could footnote it with <numbers_in_brackets> that would refer the new user to the aproprate "chapter" for more info on that topic.

Another advantage of one large DOC is you can use one of the many fine file browsing utilities like Verne Buerge's LIST to search for a particular key word. This is the way I do it.... If I want info on UNPROTO, I do a "Find" on that word, and it locates all the info there is dealing with that subject almost as fast as I can hit the keys.

I'd suspect that someone would be willing to put the files together for you, and take a first cut at making it look like a single doc. Then you could put that out to your beta testers or willing people for fine tuning and proof reading..... I've seen other packages done that way. I'd sure be willing to contribute my part.

Lance Halle KC7FVX in North Phoenix, Az

40. DOCS

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Mon, 13 Feb 1995 21:20:53 CST
To: aprssig@tapr.org
Message-ID: <0098BF10.25B2C44B.197@INS.INFONET.NET>
Rendered body type: text/plain

I sent a copy of Bob's remarks to my MS-DOS platform friend for what it is worth.
NO...Bob I don't take it as a flame at all!!!!!! I comiserate (sp?) with you on writing DOCS and making them so any "idiot" can understand them. Hi
My problem is I am ignoramt of MS-DOS so it is difficult for me to try to help my clone equipped friends with their gear.
Keep up the good work and TNX.

41. Re: [APRSSIG:166] Re: DOCS

From: pjdardis@awod.com (Paul Dardis)
Date: Tue, 14 Feb 95 17:21:43 EST
To: aprssig@tapr.org
Message-ID: <9502142221.AA09350@sumter.awod.com>
Rendered body type: text/plain

Thank You Robert! This is the most simplified yet....N4PGN "PJ"
>
>On the distribution disk you get README.NOW. THAT IS WHERE TO BEGIN!
>
>README.NOW Tells you how to unzip APRS and start the program
>
>README.1st Then provides the overall "WELCOME NEW USER" and provides
> an INDEX to all of the other readme files.
>
>APRS.DOC Provides the overall view and mission of APRS
>
>HELP.TXT Provides detail information on EVERY one of the 120+
> commands and functions in APRS.
>
>Further files then focus on particular applications:
>
> GPS.txt - For interfacing your GPS
> WX.txt - For weather reporting
> DF.txt - For Direction Finding
> HF.txt - For HF tracking
> etc...etc....etc...
>
>This is all that was needed.

73 Paul

42. Documentaion for APRS

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Tue, 14 Feb 1995 21:00:57 -0500 (EST)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9502142157.A26896-d101000@acme>
Rendered body type: text/plain

There is no "real" first time step by step user guide in the docs so I wrote one and posted on my BBS in the same directory where the program is located, and have "attached" it to this message.

I developed this to help others avoid the same mistake that I had, as well as the problems that others ran into on getting the program going.

Bob is right, in that writing documentaion for the program is hard. It is an ever growing and changing beast. I don't think that there is a single person out there who knows about all of the hidden treasures in the

program, (Including WB4APR).

For my own use, I printed out all the docs that I found to effect my operations and put them in a 3 ring binder (Hey Bob, how about a 70 char. wide line instead of 80 for use who print them out, this way we won't have to reformat them to keep from punching holes in text). The first thing I do when a new version arrives, is look to see what is new in the readme's, then I print out the new ones for the binders.

There is a lot of information there, and it is scattered (like PHG tables in the DF section). You would be surprised how much you can learn by just scanning the files. BUT, until the program stops evolving (fat chance) or someone steps up to either write the docs, our prints a "DUMMY'S GUIDE TO" let us muddle thru.

I think that the best idea would be to have users who are knowledgeable in the different aspects of the program, write a guide to that part of the program. Face it, we are all genius's in our own little areas, so lets share that knowledge with the rest of the world.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249

Packet address KB8JX0@W8CQK.#CMH.OH.USA

The 137th most knowledgeable person about A.P.R.S.

[Attachment: aprshint.txt; application/octet-stream; 4,930 bytes]

43. Re: [APRSSIG:167] MAPS

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Tue, 14 Feb 1995 21:17:29 -0500 (EST)
To: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9502142124.A26896-b100000@acme>
Rendered body type: text/plain

On Mon, 13 Feb 1995, Robert Bruninga wrote:

> I have spent the last week breaking apart the standard APRS distro of
> maps into an EAST and WEST version. This is so I can provide users with
> more maps appropriate to their area. But this E/W distribution still
> only contains the maps that I have put together. They do NOT contain the
> very detailed MAP subsystems from OHIO, MISSOURI. And as I need more
> room, many of the CALIF, ALASKA and TEXAS maps will also be removed.
> This weekend I finished off TEXAS to the 2,000,000 scale and so the
> following list shows all of the MAP systems currently available:
>
> MAPLIST.E, W, AK, CA, MN, MO, IA, OH, TX
>

Hey Bob, my Maplist.MI is getting close to being done to, so that will give ya something else to worry about. Look for it toward the end of Feb.

Is there a central depository for the maps or are we still needing to contact the different Map Co-ordinators to find out where they are hiding them?

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249

Packet address KB8JX0@W8CQK.#CMH.OH.USA

The 137th most knowledgeable person about A.P.R.S.

44. Re: [APRSSIG:166] Re: DOCS

From: Emmet2@aol.com
Date: Wed, 15 Feb 1995 01:20:15 -0500
To: aprssig@tapr.org
Message-ID: <950215004735_21880241@aol.com>
Rendered body type: text/plain

Bob, you are doing a fine job. Please keep in mind that you can't please everyone all the time. There are always those who think that there is a better way to do it, but most of the ideas just don't pan out as being worthwhile.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

45. Re: [APRSSIG:170] Re: DOCS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 15 Feb 1995 14:03:44 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.950215135752.21837B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Taking some of the comments to heart about the README files, I have implemented a simple change which will be in 6.5a whenever I get it finished:

Renamed the README.NOW file to INSTALL.txt

On APRS distro disks, README.NOW was the ONLY file other than the ZIP file, so it was pretty obvious what it was. But since many folks get APRS via modem, I can see, that README.NOW did NOT stand out as the starting point among the dozens of other README files... Hope this helps...

Mmore to expect in 6.5... SPeeded up map drawing by 30% based on some suggestions by N5ZXD in Lubbock TX.

Added JUST MOBILES, JUST WEATHER to the JUST command so you can select ALL symbols of those groups vice individual symbols. DOn't forget that JUST works on the P-list also...

46. Internet Location of APRS files

From: WMN3@aol.com
Date: Wed, 15 Feb 1995 18:02:28 -0500
To: aprssig@tapr.org
Message-ID: <950215180039_22541845@aol.com>
Rendered body type: text/plain

Here we go again! Where can a "fresh" copy of DOS based APRS be found?

Cheers, Bill Neal

P.S. I found the MAC stuff in ucsc.edu!

47. Re: [APRSSIG:174] Re: DOCS

From: K2ADJ@aol.com
Date: Fri, 17 Feb 1995 18:05:32 -0500
To: aprssig@tapr.org
Message-ID: <950217175721_24757042@aol.com>
Rendered body type: text/plain

Hi Bob,

Many thanks for the recent addition of the Just One changes in 65a that I had suggested and like it very much..

Just upgraded to 65a against your suggestion to hold off due to the loss of the GREEN paint can for the WIDE digi displayed stars... I picked up 64to 65A.zip from Boyds (w2hob) system but would NOT explode.. Had to get the full package.. That worked. ...

To: there must be a better way, Dept. There must be a better way for you to make changes in the CFGxxx.APR so that we can modify the ones we have WITHOUT going through the whole initialization process again as though it was a first time installation. 65A now involves many many blank lines at the bottom and that is all I could find different from CFG63.APR.....- or maybe I am not upgrading properly?

By the way Bob, watch your mailbox on Monday for a plain white envelope, there is a surprise in it.. My only regret is that it can't be put into a "file" so that it can be spread around to everyone..

73 de Rod - K2ADJ

48. Version 6.5b

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 17 Feb 1995 17:45:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950217173100.18025A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well, its out. It was a major re-arrangement of maps and maplists. APRS is now distributed as an East, Central and West coast version. All versions get most all of the 64 mile CD rom maps of everywhere USA, but all smaller maps are grouped into Emaps01.zip, Cmaps01.zip and Wmaps01.zip. If you unzip one of these three unique mapfiles, then they will contain their own MAPLIST.EAS, CEN and WES that has both the USA and the regional MAPS enabled. They also contain a MAPLIST.APR that is identical to the .EAS, CEN, or WES maplist, so that when the file is unzipped, the new maplist.APR will overwrite the original one (based only on USA maps) and

you will be ready to go. If you want to zoom into maps in a different region, then you use the FILES-CHANGE MAPLIST command and temporarily load up the MAPLIST that you need. Here are the changes in the APRS65B.exe:

- * Fixed the 6.5a bug that prevented WIDE digis from showing up green
- * Added Lighthouse and Buoy symbols (the letters L and N)
- * Added Medium and really SLOW replay modes
- * Fixed Dew point probs on Manual WX reports
- * Fixed streets on a disk interface to include 2 digit SSID's
- * Turned off remaining BBEPs with BEEPS OFF comand
- * Fixed crash bug with aircraft (-7 SSID) crashing if going north!
- * MAPLIST.xxx is displayed on the CONTROL PANEL
- * HIGH res VGA text mode is saved in config file
- * New maps for TEXAS, East texas, South texas, Tulsa OKlahoma, E.KY

Got a new volunteer MAP maker in Texas (N5JXS in Houston) and N5ZXD in Lubbock.
SK

49. Maps from glis

From: mxdp!twade@mxdp.afsv.af.mil (Tom Wade)
Date: Mon, 20 Feb 95 11:24:34 CST
To: aprssig@tapr.org
Message-ID: <9502201724.AA02007@mxdp.afsv.af.mil>
Rendered body type: text/plain

Has anyone been able to ftp to edcftp.cr.usgs.gov and get map data for their area? If you telnet to glis.cr.usgs.gov it tells you what you need to get for your area. If I read this correctly, I can get the data this way instead of buying a cdrom with the data. Thanks

Tom

50. TAPR.ORG Location Change

From: Greg Jones <gjones@tenet.edu>
Date: Mon, 20 Feb 1995 15:23:15 -0600 (CST)
To: tapr-bb@tapr.org (TAPR-BB mailing), bbssig@tapr.org (BBS SIG mailing),
netsig@tapr.org (NETSIG mailing), dsp-93@tapr.org (DSP-93 Build),
hfsig@tapr.org (HF SIG mailing), aprssig@tapr.org
Message-ID: <199502202123.PAA09624@Joyce-Perkins.tenet.edu>
Rendered body type: text/plain

TAPR.ORG has been relocated and has a new numeric IP address of:

204.96.214.85

DNS servers should have been updated starting yesterday.....but just in case yours is a little slow, you can use the numeric IP until things get fully updated.

The new location allows for a faster connection into Internet which should help the site in the long run.

Thanks to Lee, N5LYT, for his continued help and effort on the TAPR.ORG site.

Cheers - Greg

51. APRS6.5C fixes HSP mode

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 20 Feb 1995 18:46:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950220184044.22427C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well after releasing 6.5b I got a call from someone having problems with HSP mode. Turns out, when I revamped the code starting with 6.5, the toggling time that APRS was looking at the GPS unit via the HSP interface was cut severely. Although it sorta worked on my system with a GPS at 9600 baud, at 4800 baud, it would only work about 10% or less of the time! Soooooooo

Version 6.5c fixes the HSP problem that has been there since 6.5. Other changes include:

Made MAPS-PLOTS such as DF and POWER plots overlay the map vice blank screen.

You can now hook-KILL on the map screen...

So, if you got 65b, but dont do HSP mode, then keep it, but do NOT further distribute it.

52. VK-trip with APRS & EYEBALL ???

From: AA8JK@aol.com
Date: Tue, 21 Feb 1995 10:04:11 -0500
To: aprssig@tapr.org
Message-ID: <950221100407_27858965@aol.com>
Rendered body type: text/plain

Hello,

Starting on 3 MAR 95, I will be radio active in Brisbane, Queensland, Australia for a "Ham Holiday Down Under".

I will be try to be active on APRS freqs on 30 and 20 meters as VK4SID. This operation can only be a part-time effort due to the ARRL DX contest (my wife likes to contest) and some IOTA work. Some sun and fun may also get in the way of ham radio operations. Please QSL to my home call, AA8JK.

After I get back from Down Under, I will need to firm up the date for the 1995 APRS EYEBALL for this year's Dayton Hamvention. I have booked my clubhouse for both Friday and Saturday. I may be able to get a large room in the downtown area of Dayton for our EYEBALL, but I need to know which night we would want. Looking at both the clubhouse and this new location, the downtown location would fit our needs better.

Please let me know which night you think would be best. Some folks say Friday is best due to the fact many people leave Dayton after Saturday afternoon. I will need your input on this one!

73,

Steve Caesar AA8JK/VK4SID
Andrea Caesar KB8LBQ/VK4JAK

AA8JK@AOL.COM

53. Weather data and Unix

From: <ROBERTST@BENNING-EMH1.ARMY.MIL>
Date: Tue, 21 Feb 95 11:53:03 EST
To: <aprssig@tapr.org>
Message-ID: <199502211651.KAA24173@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

We get our NWS weather bulletins via a Unix machine. One port of the Unix machine is also hooked up to our local 145.79 APRS freq. What we're trying to do is find a way to automate receiving the NWS weather bulletins, parsing the data, and then outputting the APRS formatted data via the 145.79 port on the unix machine. This needs to be totally automated and all done on the Unix machine to preclude human intervention. Any suggestions/ideas.

Thanks,
Tom
NL7ZL

54. Re: [APRSSIG:180] APRS6.5C fixes HSP mode

From: mmunster@qualcomm.com (Marvin Munster x5388)
Date: Tue, 21 Feb 1995 11:34:54 -0800
To: aprssig@tapr.org
Message-ID: <ab6ff0b4590210040654@[129.46.12.181]>
Rendered body type: text/plain

>Version 6.5c fixes the HSP problem that has been there since 6.5.
>Other changes include:

So, where is this new version available?
Thanks.
Marvin - WB6PKK

55. RE: [APRSSIG:178] Maps from glis

From: "Todd Little, Pegasus" <little@nuts2u.enet.dec.com>
Date: Tue, 21 Feb 95 15:32:13 EST
To: aprssig@tapr.org
Message-ID: <9502212030.AA18183@us2rmc.zko.dec.com>

Rendered body type: text/plain

Hi Tom,

>Has anyone been able to ftp to edcftp.cr.usgs.gov and get map data for
>their area? If you telnet to glis.cr.usgs.gov it tells you what you need
>to get for your area. If I read this correctly, I can get the data this
>way instead of buying a cdrom with the data. Thanks

I can get to that site, but I'm not sure what I'm looking for. I can't telnet
from my location, so I can't get to glis.cr.usgs.gov to get directions.
Can you pass along any directions you find?

Thanks,
Todd
N9MWB

56. RE: [APRSSIG:182] Weather data and Unix

From: "Todd Little, Pegasus" <little@nuts2u.enet.dec.com>
Date: Tue, 21 Feb 95 15:38:57 EST
To: aprssig@tapr.org
Message-ID: <9502212038.AA18877@us2rmc.zko.dec.com>
Rendered body type: text/plain

>We get our NWS weather bulletins via a Unix machine. One port of the

Is this something the NWS in your area is providing or something on
the Internet?

73,
Todd
N9MWB

57. Re: [APRSSIG:182] Weather data and Unix

From: csetzer@rmii.com (Craig Setzer)
Date: Tue, 21 Feb 1995 13:57:52 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <m0rhlea-0003s9C@rmii.com>
Rendered body type: text/plain

Tom wrote:

>

> We get our NWS weather bulletins via a Unix machine. One port of the
> Unix machine is also hooked up to our local 145.79 APRS freq. What
> we're trying to do is find a way to automate receiving the NWS
> weather bulletins, parsing the data, and then outputting the APRS
> formatted data via the 145.79 port on the unix machine. This needs
> to be totally automated and all done on the Unix machine to preclude
> human intervention. Any suggestions/ideas.
>

Tom,

We are doing that here in Colorado Springs. We get the weather data
via the NOAA Weather Wire Service off of satellite and run a simple
shell script program to look for headers of products we want. Once
we have one we use a simple modem program to communicate to the TNC
and send the info to our ARES packet cluster for others to view.

We will be upgrading the service to be more specific by adding
labels for routine weather or severe and extra data weather.
Presently we just send all area specific weather with the appropriate
subject lines, e.g. SPCL WX STMT de COS, TORNADO WARNG de PUB, and
so on.

If I can be of more help, let me know.

Craig

Craig Setzer

Internet: csetzer@rmii.com
HAM Radio: KB0MXQ

--You'll find me in the bear's cage...

58. [APRSSIG:185] RE: Weather data and Unix

From: <ROBERTST@BENNING-EMH1.ARMY.MIL>
Date: Tue, 21 Feb 95 16:22:00 EST
To: <aprssig@tapr.org>
Message-ID: <199502212120.PAA29363@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

This is something the weather service is providing to one of our universities.

73,
Tom

59. MacAPRS

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Wed, 22 Feb 1995 10:43:31 CST
To: aprssig@tapr.org
Message-ID: <0098C5C9.99C711A1.100@INS.INFONET.NET>
Rendered body type: text/plain

I got version 1.3.3 and when I run it I get a triangle icon with "DF" in the center. I am unable to find out why or what I am doing to cause this. Ideas?
73, Bill

60. Re: [APRSSIG:184] RE: Maps from glis

From: mxdp!twade@mxdp.afsv.af.mil (Tom Wade)
Date: Wed, 22 Feb 95 20:03:34 CST
To: aprssig@tapr.org
Message-ID: <9502230203.AA09205@mxdp.afsv.af.mil>
Rendered body type: text/plain

Ok, I finally got in today - FTP to edcftp.cr.usgs.gov using anonymous for login and your email address for password. Change directory to /pub/data/DLG/100k From there you will find directories A-Z. Change to the directory letter that your town starts with. Say San Antonio will be under S. Then under the S directory will be the actual towns listed. Change directory to the that town. Then you will have two more directories, hydrography and transportation. The files under those two directories will be the data. I have not tried to extract the data for use with the map making programs under APRS. If anyone has done it with these files, please let me know. For those that have telnet access, you can telnet to glis.cr.usgs.gov and get alot more detailed information.

Tom
N9CDQ ex DA1WT
Laughlin AFB, TX

61. Re: [APRSSIG:181] VK-trip with APRS & EYEBALL ???

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 23 Feb 1995 14:43:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950223144227.24075A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I vote for Friday (but this is an un informed vote)
oh, this is in response to the DAYTON message: What night for an eyeball?

62. Re: [APRSSIG:182] Weather data and Unix

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 23 Feb 1995 14:50:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950223144730.24075C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I dont understand how the PORT on your UNIX box is "connected" to 145.79. I presume a TNC.... But what software?

Anyway, if you can make the NWS bulletins flow out of a serial port on the UNIX box, then get an old PC running my NWSPARSE.BAS program. It will scann the NWS bulletins, and build APRS OBJECTS and BEACONS automatically and send them via a TNC onto the APRS frequency. All un-attended. The NWSPARSE.bas program is distributed as source code, so you can add whatever additional bulletin parsing you need...
/ex

63. Re: aprs registration

From: pbcarlin@ix.netcom.com (Paul Carlin)
Date: Thu, 23 Feb 1995 12:22:47 -0800

To: aprssig@tapr.org
Message-ID: <199502232022.MAA17119@ix3.ix.netcom.com>
Rendered body type: text/plain

Hello I hope you are the author of APRS for thr pc. I want to register but most of the readme files I have are garbled. Please leave me a note here of via phone # for me to call you. thanks Paul Carlin ke6nvu
PS if you are not the right fellow please disregard and thanks any way for trouble.. paul

64. APRS Mouse!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 23 Feb 1995 15:29:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950223152037.24075E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well, its done! My first attempt at adding a mouse to APRS. It allows you to move the cursor and HOOK with the left button, or ZOOM with the right button on both the MAPS and the P/L lists. My implementation DOES NOT use any mouse driver, nor require a WINDOWS environment. It reads the raw data from a MICROSOFT SERIAL mouse on COM1 or COM2. (or maybe 3/4 if you are using the same interrupts). Except for the fact that APRS is now over 410K, this means you can plug a MOUSE into an old 8088 laptop, but of course it does use up a serial port. If your mouse is not MICROSOFT or does not use COM ports, then it won't work. Knocks out many nice laptops.

I did it this way for simplicity and because I am too old to figure out what a MOUSE DRIVER does and how it does it. Serial ports, like packets, I can figure out...

If you have a mouse that YOU can explain to me where I can PEEK for the X,Y values and for the button status, then send it to me. Although I dont like WINDOWS, this mouse with APRS is kinda neat...

Get APRS version 6.6...
(Annapolis BBS 410 280-2503)

65. Re: [APRSSIG:191] Re: Weather data and Unix

From: dkelly@tomcat1.tbe.com (David Kelly)
Date: Thu, 23 Feb 95 14:37:34 -0600
To: aprssig@tapr.org
Message-ID: <9502232037.AA17109@tomcat1.tbe.com>
Rendered body type: text/plain

> Anyway, if you can make the NWS bulletins flow out of a serial port on
> the UNIX box, then get an old PC running my NWSPARSE.BAS program. It
> will scann the NWS bulletins, and build APRS OBJECTS and BEACONS
> automatically and send them via a TNC onto the APRS frequency. All
> un-attended. The NWSPARSE.bas program is distributed as source code, so
> you can add whatever additional bulletin parsing you need...

Furthermore, there are freebie BASIC interpreters for Unix that might eliminate the old PC. On the other hand, native Unix utilities are very good at manipulating text & binary data files. There is an awfully lot to be said in favor of the link's maintainer creating the translation themselves. On the other hand it would be foolish not to study Bob's NWSPARSE.BAS to see what can be learned.

73,

--

David Kelly N4HHE, n4hhe@amsat.org, dkelly@nebula.tbe.com

The human mind ordinarily operates at only ten percent of its capacity
-- the rest is overhead for the operating system.

66. Re: [APRSSIG:194] Re: Weather data and Unix

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 23 Feb 1995 15:55:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950223155001.25757B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I agree, it doesnt mtter what language or what box does the NWS parsing, as long as you take the data and make APRS OBJECTS out of them. I did this because one group wanted to just spit the NWS bulletins out onto the APRS frequency (250 packet message lines)! I lookd at the four pages of bulletins and determined that all that was needed was 6 APRS OBJECTS.

- 1) was the Tropical storm location cse and speed
- 2,3,4 were the 4 8 and 12 hour forecast positions...

5,6 were APRS CIRCLE objects that marked the radius of 30 kt and 50 Kt winds.
That was it! That was also why I wanted everyone to look at the source code and try to adopt it to their circumstances. A single object on the screen is worth over 40 lines of text in this example....

Have fun. I think there is tremendous potential here....

67. Re: [APRSSIG:193] APRS Mouse!

From: kirk@neptune.gsfc.nasa.gov (Robert Kirk)
Date: Thu, 23 Feb 1995 16:11:57 -0500
To: aprssig@tapr.org
Message-ID: <9502232114.AA13116@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 02:44 PM 2/23/95 -0600, Robert Bruninga wrote:
>Well, its done! My first attempt at adding a mouse to APRS. It allows
>you to move the cursor and HOOK with the left button, or ZOOM with the
>right button on both the MAPS and the P/L lists. My implementation DOES
>NOT use any mouse driver, nor require a WINDOWS environment. It reads
>the raw data from a MICROSOFT SERIAL mouse on COM1 or COM2. (or maybe 3/4
>if you are using the same interrupts). Except for the fact that APRS is
>now over 410K, this means you can plug a MOUSE into an old 8088 laptop,
[...]

A plea:

I sometimes run APRS in a GPS mode on an HP Palmtop, which is an 8088.
For a few hundred bucks you have a good portable computer that's smaller
than most TNC's, with full functionality if a tad slow redrawing maps. Anyway,
it's only got two megs to partition between memory & ramdisk. It can run
the full blown APRS but I worry that new bells & whistles are narrowing the
margin. I guess it's always possible to run early, smaller versions but that's
not realistically very practical. It would be nice to have a self-stripping
function
in APRS so it could slim itself down by dumping some non-vital functions
(like mouse or whatever). Or a companion "Lite" version.

Bob Kirk
N30ZB

68. Re: [APRSSIG:190] Re: VK-trip with APRS & EYEBALL ???

From: Greg Jones <gjones@tenet.edu>
Date: Thu, 23 Feb 1995 16:39:46 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199502232239.QAA16027@Alice-Thurman.tenet.edu>
Rendered body type: text/plain

There is a Friday evening dinner/keynote TAPR sponsored event...information
in the last PSR and more to be posted on tape-bb in the next month.

There will probably be a APRS SIG meeting that evening as well if Keith
wants it and he is there ?

greg

According to Robert Bruninga:
>
> I vote for Friday (but this is an un informed vote)
> oh, this is in response to the DAYTON message: What night for an eyeball?
>
>

69. Re: [APRSSIG:197] Re: VK-trip with APRS & EYEBALL ???

From: Keith Sproul <ksproul@old-hercules.rutgers.edu>
Date: Thu, 23 Feb 95 18:39:02 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.793582742.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

I will be there, and at whatever other APRS functions get planned...

Keith

Keith Sproul	WU2Z
Student Housing Network Administrator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work

70. New E-Mail Address

From: Keith Sproul <ksproul@noc.rutgers.edu>
 Date: Thu, 23 Feb 95 18:56:44 EST
 To: ksproul@old-hercules.rutgers.edu
 Message-ID: <CMM-RU.1.4.793583804.ksproul@old-hercules.rutgers.edu>
 Rendered body type: text/plain

Some of you are aware of this, but many are not.. As of this past Monday, I have started working at Rutgers University. Along with this new job, I have better internet access and a new E-Mail account.

Please start using my new E-Mail address:

ksproul@noc.rutgers.edu

73, Keith Sproul, WU2Z

Keith Sproul	WU2Z
Student Housing Network Administrator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

71. Re: [APRSSIG:193] APRS Mouse!

From: Lance Halle <lanceh@crl.com>
 Date: Thu, 23 Feb 1995 16:26:03 -0800 (PST)
 To: aprssig@tapr.org
 Cc: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950223162254.2486A-100000@crl.crl.com>
 Rendered body type: text/plain

> MICROSOFT or does not use COM ports, then it won't work. Knocks out many
 > nice laptops.
 > I did it this way for simplicity and because I am too old to figure
 > out what a MOUSE DRIVER does and how it does it. Serial ports, like
 > packets, I can figure out...

Awwww... no bus mice.. I'll see what I can find out about
 accessing the driver and send it to ya....

> dont like WINDOWS, this mouse with APRS is kinda neat...

You know what they say about mice.... They cause brain damage!
 Just look a the people that use them... <grin>

Lance Halle KC7FVX in North Phoenix, Az.

72. Re: [APRSSIG:190] Re: VK-trip with APRS & EYEBALL ???

From: rfowler@mindspring.com (Ralph Fowler)
 Date: Thu, 23 Feb 1995 22:30:39 -0600
 To: aprssig@tapr.org
 Message-ID: <199502240328.WAA10497@dylan.mindspring.com>
 Rendered body type: text/plain

Being an ATV enthusiast, I vote for whatever night the ATV forum at the
 Holiday Inn is *NOT* on.
 I'd like to go to both meetings.

73. Re: [APRSSIG:201] Re: VK-trip with APRS & EYEBALL ???

From: Greg Jones <gjones@tenet.edu>
 Date: Thu, 23 Feb 1995 23:30:19 -0600 (CST)
 To: aprssig@tapr.org
 Message-ID: <199502240530.XAA18897@Joyce-Perkins.tenet.edu>
 Rendered body type: text/plain

Keith will be meeting with John Ackermann and myself at the St Louis meeting
 and we will be firming up the various SIG meetings during dayton.

Greg

According to Ralph Fowler:

>
 > Being an ATV enthusiast, I vote for whatever night the ATV forum at the
 > Holiday Inn is *NOT* on.
 > I'd like to go to both meetings.
 >

>

74. Re: [APRSSIG:199] New E-Mail ...

From: StuartS499@aol.com
Date: Fri, 24 Feb 1995 08:01:35 -0500
To: aprssig@tapr.org
Message-ID: <950224080134_30996377@aol.com>
Rendered body type: text/plain

GOOD LUCK WITH THE NEW JOB.
PLEASE DON'T FORGET ABOUT MY MAC PLUS.
73
STU

75. [APRSSIG:193] APRS Mouse!

From: "Young, Gregory" <GYoung@ubmede.buffalo.edu>
Date: Fri, 24 Feb 95 11:04:00 PST
To: aprssig@tapr.org
Message-ID: <2F4E2E0C@ubmed.buffalo.edu>
Rendered body type: text/plain

Hi Bob:
Great news on version 6.6! One quick question, which I feel may benefit others, so I am posting this to the sig.. will aprs support other weather devices, specifically the Heath Weather Station? This has a standard rs-232 interface..
I am working with others in WNY state, and Southern Ontario, in conjunction with the NWS office, to use aprs to provide data to supplement voice Skywarn activity. We have quite a few units using the Heath Weather Station. There would be a sig. delay for those remotes to now attempt to convert over to the Ultimeter2, not to mention sig. costs...
73, see you at dayton, hopefully, Greg
PS Friday night sounds good, as long as it doesn't conflict with tapr...

76. Re: [APRSSIG:204] APRS Mouse!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 24 Feb 1995 16:50:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950224164506.8341B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I could add parsing of the HEATH, but it is out of production, right?
cant get it anywhere, right?

Couple that fact with the fact that most HOME WX STATIONS do NOT give a true WX picture because they are not mounted HIGH, in the clear, etc etc. Also the Heath must be interrogated, meaning that the PC running APRS must be on all the time. Many HAMS turn off their PC in sever WX conditions.

The real advantage of APRS WX nets will be the STAND-ALONE-WX unit properly located at a repeater site interfaced to a compatible TNC (PACCOM) on battery back up power. The HEATH will never be used in that situation. So in summary, I can do it, but it is WAY down on the priority list. Argue with me if I have overlooked something... hi hi

77. APRS bulletins

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 24 Feb 1995 17:08:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950224165749.8341G-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Since I should not and therefor cannot post a packet Bulletin announcing things such as the new MOUSE mods, i suspect that there are lots of folks out there that are NOT on the internet that would llike to know.

If you see something here that you think other packeteers in your area would like to know about, you might consider sending out a bulletin in your area.

On my local BBS, I only see a bulletin to APRS @ USA very rarely. But since people call me frequently, I know that there are APRS events going on that others might find interesting. Just got a call from a CALIF bunch that is getting 8 GPS and 8 TNC's and 8 RADIOS donated to them for some kind of Police charity event... And there are lots of balloons under construction (i think)....

78. Re: [APRSSIG:190] Re: VK-trip with APRS & EYEBALL ???

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>
Date: Sat, 25 Feb 1995 04:24:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9502250454.A26314-6100000@acme>
Rendered body type: text/plain

Eyeball - Friday is my vote - but either day is OK.

79. Re: [APRSSIG:181] VK-trip with APRS & EYEBALL ???

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sat, 25 Feb 1995 08:20:37 -0500 (EST)
To: AA8JK@aol.com
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9502250834.A9765-8100000@acme>
Rendered body type: text/plain

I vote for Friday Night for the eyeball Q50.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

80. registration

From: Paul Katz <PAUL8@delphi.com>
Date: Sat, 25 Feb 1995 21:41:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01HNNHC8IAIRM90N925@delphi.com>
Rendered body type: text/plain

Is is possible to register aprs on internet?

Paul -N1LRT

`[1;33;41mPaul-Boston visit us we need your money I mean historic Bstn
`[1;33;44mHappy Sailing; Another Day Above Ground

`[1;31;41mRainbow V 1.12.5 for Delphi - Registered

81. Lack of Color on APRS

From: dlm@infi.net (D. L. McMillin)
Date: Sun, 26 Feb 1995 14:11:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <m0rioNG-00006MC@infi.net>
Rendered body type: text/plain

I'm running APRS06c on an AT&T pc6300 with a CGA color monitor but I only get black and white. It is quite difficult to evaluate this way. Any one know where the color went? Thanks, 73 Dan W4DGE dlm@nr.infi.net

82. Video Modes

From: WMN3@aol.com
Date: Sun, 26 Feb 1995 15:00:48 -0500
To: aprssig@tapr.org
Message-ID: <950226150046_32899524@aol.com>
Rendered body type: text/plain

Hello,

I've been having a problem with all of the APRS programs. It seems that the picture is cut-off top and bottom.

By playing with my "modes" program that came with the monitor and video card, it seems that my monitor will NOT work with modes 58 and 6a.

Yes, I did check the "F7" function in APRS (ver 6.6) and that was no help.

Any suggestions, please! I'd like to demo the software for an Emergency Services group, but can't with current set-up.

Thanks, Bill aka N0NSA

83. Re: [APRSSIG:211] Video Modes

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>
Date: Sun, 26 Feb 1995 14:18:47 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <9502261418.aa27329@comix.Santa-Cruz.Ca.US>
Rendered body type: text/plain

> I've been having a problem with all of the APRS programs. It seems that the
> picture is cut-off top and bottom.
>
> By playing with my "modes" program that came with the monitor and video card,
> it seems that my monitor will NOT work with modes 58 and 6a.

Due to lack of information, I have to guess (in order of likelihood).

1. You need to adjust the vertical size knob on the monitor.
2. You are in 640x400 graphics mode instead of 640x480.
3. You have one of those cursed VGA cards (old WD or Paradise) that save their setting in NVRAM on the card and that will not return to reality until you blindly type the magic incantation. Try:
MODE C080

Mode 58 is 132x30 text and 1188x480-16 dots. None of my Trident, SMC, or Tseng 4000 manuals show a mode 6a. I don't think 58 is a suitable mode for APRS. Try mode 12.

--
Jeff Liebermann Box 272 1540 Jackson Ave Ben Lomond CA 95005
408.336.2558 voice wb6ssy@ki6eh.#nocal.ca.usa wb6ssy.ampr.org [44.4.18.10]
408.699.0483 digital_pager 73557.2074 cis [don't]
jeffl@comix.santa-cruz.ca.us scruc.ucsc.edu!comix!jeffl

84. Re: [APRSSIG:210] Lack of Color on APRS

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>
Date: Sun, 26 Feb 1995 14:27:49 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <9502261427.aa27347@comix.Santa-Cruz.Ca.US>
Rendered body type: text/plain

> I'm running APRS506c on an AT&T pc6300 with a CGA color monitor but I only
> get black and white. It is quite difficult to evaluate this way. Any one
> know where the color went? Thanks, 73 Dan W4DGE dlm@nr.infi.net

The AT&T/Olivetti 6300 runs a CGA emulator with exactly two graphics modes. 320x200-4colors and 640x200-1color. The stock AT&T 6300 mono video will do 640x400-1color. With the DEB (display enhancement board) you can do 640x400-16colors. However, using a CGA card and monitor, 640x200-1 is the best resolution. If APRS were to run in the 320x200-4 mode, then the graphics would be disgustingly coarse.

--
Jeff Liebermann Box 272 1540 Jackson Ave Ben Lomond CA 95005
408.336.2558 voice wb6ssy@ki6eh.#nocal.ca.usa wb6ssy.ampr.org [44.4.18.10]
408.699.0483 digital_pager 73557.2074 cis [don't]
jeffl@comix.santa-cruz.ca.us scruc.ucsc.edu!comix!jeffl

85. Re: [APRSSIG:211] Video Modes

From: RRR0SS@delphi.com
Date: Sun, 26 Feb 1995 18:23:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01HNIJKOES9E91WXH1@delphi.com>
Rendered body type: text/plain

I have misplaced the address for the USGS maps info in the internet.
can someone please forward the info to me.

Thanks :-)
de N7RBP

86. Re: [APRSSIG:214] Re: Video Modes

From: mxdp!twade@mxdp.afsv.af.mil (Tom Wade)
Date: Sun, 26 Feb 95 21:46:29 CST
To: aprssig@tapr.org
Message-ID: <9502270346.AA01325@mxdp.afsv.af.mil>
Rendered body type: text/plain

Telnet to glis.cr.usgs.gov (152.61.192.54) This site will tell you what you need to d/l or order on cdrom for your area. You will then ftp to edcftp.cr.usgs.gov /pub/data/DLG/100K for the data.

Tom - N9CDQ

87. Mail Archives available on ftp.tapr.org

From: Greg Jones <gjones@tenet.edu>
Date: Mon, 27 Feb 1995 00:37:43 -0600 (CST)

To: netsig@tapr.org (NETSIG mailing), bbssig@tapr.org (BBS SIG mailing),
aprssig@tapr.org, hfsig@tapr.org (HF SIG mailing)
Message-ID: <199502270637.AAA15814@Alice-Thurman.tenet.edu>
Rendered body type: text/plain

Mail Archives for the various mail groups are now available on both
listserv@tapr.org and via ftp.tapr.org

The mail archives on the listserv is updated daily.
The mail archives in the ftp area is updated weekly.

88. Re: [APRSSIG:210] Lack of Color on APRS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 27 Feb 1995 10:56:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950227105554.15388D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 26 Feb 1995, D. L. McMillin wrote:

> I'm running APRS506c on an AT&T pc6300 with a CGA color monitor but I only
> get black and white. It is quite difficult to evaluate this way. Any one
> know where the color went? Thanks, 73 Dan W4DGE dlm@nr.infi.net
>

CGA cannot do color in the HIGH RES mode. APRS only uses the HIGH-RES mode.
Sorry.

89. Re: [APRSSIG:211] Video Modes

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 27 Feb 1995 11:02:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950227110021.15388F@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 26 Feb 1995 WMN3@aol.com wrote:

> I've been having a problem with all of the APRS programs. It seems that the
> picture is cut-off top and bottom.
>
> By playing with my "modes" program that came with the monitor and video card,
> it seems that my monitor will NOT work with modes 58 and 6a.
>

Im not familiar with "modes 58 and 6a."
APRS works with all STANDARD CGA,EGA and VGA screens. It operates 640x200
in CGA and minimum EGA systems, and uses 640x350 in normal EGA and VGA.

90. Aircraft & Ground Team use in AZ

From: WMN3@aol.com
Date: Mon, 27 Feb 1995 12:51:18 -0500
To: aprssig@tapr.org
Message-ID: <950227125115_33750383@aol.com>
Rendered body type: text/plain

I'm looking for contact with anyone in CAP that has been using APRS.

I have a Mountain Search & Rescue Exercise coming up in Texas soon and would
like to see how APRS works for that. And would love any kind of direction
from anyone.

Cheers, Bill Neal aka
n0nsa@ki5mr.ampr.org
n0nsa@kf5mg.#dfw.tx.usa.noam

P.S. The video prob is still there...

March 1995

Original source file: aprssig.9503

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1995-03/TAPR-APRS_1995-03.txt

1. request a step by step map procedure, please.

From: stewart@kepler.IFA.Hawaii.Edu (Christopher Stewart)
Date: Thu, 2 Mar 95 10:18:34 HST
To: aprssig@tapr.org
Message-ID: <9503022018.AA07364@kepler.ifa.hawaii.edu>
Rendered body type: text/plain

I got the files for a map from the edcftp.cr.usgs.gov in the 100k directory. When I tried to follow the directions is the aprs text files, it did not work at all. It seems it did not like the files. I ran the dd function on the files as suggested on the server too. Can anyone give me a step by step instruction to get a completed map? I know, I am supposed to be able to figure it out but frankly I truly don't have the time to mess with it for days at a time. Too many bills need to be paid first. Thanks for any assistance. CHris/ah6gg

2. Version 6.6

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 3 Mar 1995 17:41:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950303173241.10272B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well, Im going to Disney world so 6.6 is here to stay, at least until mid March. So get comfortable with it. Lemme know any bugs. Known bugs that I want to fix in the next version:

- 1) the zoom prompt for mouse has the box in the wrong place in 43 line mode
- 2) Once you have a PHG, you cannot get rid of it! (always been there)

I like the mouse so much, I still hope someone has the raw data on where the mouse drivers keep the XY position and the button status. Then I can handle all mice. N2IPH sent me a complete development system for mice interfaceing, but again, it calls routines that in turn call routines that call the mouse driver. This seems like a LOT of overhead compared to the 20 lines of code that it took me to directly access the microsoft mouse. Surely this info is available somewhere...

Things in the pipeline: The MIM telemetry module
The APRS mic encoder/GPS interface
Phone-line support for dial in APRS access
Doppler Speed detectors for commuter traffic
alerts along the highway. See
TELEMETRY.txt

See ya!

3. Ultimeter II

From: ROBERTST@BENNING-EMH1.ARMY.MIL
Date: Fri, 3 Mar 1995 20:59:44 -0600
Message-ID: <199503040259.UAA04881@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

My apologies to Bob. I meant to send this to the APRSSIG.

73,

Tom

*** Forwarding note from ROBERTST--BEN1 03/03/95 21:55 ***
To: APRS --CMSNAMES

From:
Subject: Ultimeter II
We're trying to use the ultimeter II in the stand alone mode at a remote site with the rain guage. We want to monitor the data in APRS. Everything works fine except for the rain data. The packet sent by the Ultimeter contains the rain data but APRS doesn't decode it. Again APRS only decodes the wind and temp. I have the WX authorization code for APRSand everything works fine when the Ultimeter is hooked up to the computer running APRS. Alas this doesn't help us measure the rain at remote sites. Does anyone know of a way to use the APRS/Ultimeter combo in the unattended mode at a remote site and be able to decode the rain data in APRS? Have I overlooked something or can't it be done?
Thanks,
Tom

4. Help on aprs for amiga computer

From: Cline <rcline@u.washington.edu>
 Date: Sat, 4 Mar 1995 00:22:53 -0800 (PST)
 To: SIG GROUP APRS <aprssig@tapr.org>
 Message-ID: <Pine.ULT.3.91a.950304002024.27317B-100000@hardy.u.washington.edu>
 Rendered body type: text/plain

Has anyone ported APRS to the Amiga computer? I am interested in the hardware and software interface. Thanks Bob N7CVW Seattle.

5. PacComm's PicoPacket info wanted

From: Cline <rcline@u.washington.edu>
 Date: Sat, 4 Mar 1995 00:30:38 -0800 (PST)
 To: SIG GROUP APRS <aprssig@tapr.org>
 Message-ID: <Pine.ULT.3.91a.950304002722.27317C-100000@hardy.u.washington.edu>
 Rendered body type: text/plain

Does anyone have any info on this new product and info on mating it with a Magellen Meridian? Thanks Bob N7CVW.

6. APRS'ing in Australia

From: DDOBBINS@aol.com
 Date: Sun, 5 Mar 1995 04:09:18 -0500
 To: aprssig@tapr.org
 Message-ID: <950305040223_39682996@aol.com>
 Rendered body type: text/plain

2-15: Hi Bob de Dave, WH6YC, from enr down under. Have tailored a 6.4a disk with Australia, and did a map of area I'm visiting in Brisbane. Hope it takes off here. Just a short visit, total of 9 days inport. Wish me luck. Back to Hawaii after this, and will call you upon return. 73, Dave.

2-21: Hello again from the international dateline, junction of grid squares @J90xa, @I99xx, AJ00aa, AI09xx. We stopped for a swim call. Fun. Listening for APRS HF packets, may be copying some on 21096., but nothing else. Sure wish I could have come up on HF to xmit loc, but no amateur radio comms allowed while underway. Finally got to stringing HF wire ant at home, no copy on 10151 LSB, but heard some unk trfc on 14096.3, and made brief connect with AZ station. Upon return will re-string ant to higher up, about 50', between two coconut trees. Hope that works and maybe then will be within HF range. Also am ordering the Ultimeter II WX station for install at work, need validation number and I'll send \$14 to you ASAP. In port in a couple days, try to logon then and send this. 73, Dave.

7. Re: [APRSSIG:221] Version 6.6

From: Dennis Gabler <dennis@microware.com>
 Date: Mon, 6 Mar 1995 07:33:01 -0600 (CST)
 To: aprssig@tapr.org
 Message-ID: <9503061333.AA01014@wahz>
 Rendered body type: text/plain

>

>I like the mouse so much, I still hope someone has the raw data on where
 >the mouse drivers keep the XY position and the button status. Then I can
 >handle all mice. N2IPH sent me a complete development system for mice
 >interfaceing, but again, it calls routines that in turn call routines
 >that call the mouse driver. This seems like a LOT of overhead compared
 >to the 20 lines of code that it took me to directly access the microsoft
 >mouse. Surely this info is available somewhere...
 >

Let me know what it is you are looking for and I'll see what I can dig up. Are you using INT33 for your mouse calls? Or do you want to get the raw seething data from the mouse (delta mickies)? Reply by e-mail and let me know what you have in mind.

73's Dennis - KB5HVN
 dennis@microware.com

8. Re: [APRSSIG:221] Version 6.6

From: John Maca <jmaca@phoenix.phoenix.net>
 Date: Mon, 6 Mar 1995 10:39:53 -0600 (CST)
 To: aprssig@tapr.org
 Message-ID: <Pine.3.89.9503061023.A3585-0100000@phoenix.phoenix.net>
 Rendered body type: text/plain

I've looked for ver. 6.6 on ftp.ucsd.edu but couldn't find it...

Can anyone tell me where version 6.6 can be found?

Thanks

John
AB5SS

9. Re: [APRSSIG:221] Version 6.6

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Mon, 6 Mar 1995 08:56:23 -0800
To: aprssig@tapr.org
Message-ID: <199503061656.IAA20359@kilroy.jpl.nasa.gov>
Rendered body type: text/plain

Question about files of the form "65AT066.ZIP":

You just 'pkunzip -d' then in the APRS directory, and they replace whatever needs to be replaced, right?

-Greg

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

10. Re: [APRSSIG:228] Re: Version 6.6

From: janderson@ram.net
Date: Mon, 06 Mar 95 12:15:07 EST
To: aprssig@tapr.org
Message-ID: <15021591.0968@ram.net>
Rendered body type: text/plain

>You just 'pkunzip -d' then in the APRS directory, and they replace whatever
>needs to be replaced, right?

Right. Move the update zipfile into your existing APRS directory, PKUNZIP it with the -d option and overwrite the duplicate filenames. I have found that it is sometimes a good idea NOT to let it overwrite your MAPLIST.APR file if you have customized it to encompass special maps in your area.

Jack
n4uls@ram.net

11. Re: [APRSSIG:227] Re: Version 6.6

From: kinahan@ws007-fddi.bytex.network.com (Tom Kinahan @ws007)
Date: Mon, 6 Mar 95 12:34:38 EST
To: aprssig@tapr.org
Message-ID: <9503061734.AA27320@ws007-fddi>
Rendered body type: text/plain

I found APRS ver 6.6 on muncey.com (140.174.180.1) in public/aprs.

- Tom Kinahan N1CPE kinahan@bytex.netwok.com

>I've looked for ver. 6.6 on ftp.ucsd.edu but couldn't find it...

>

>Can anyone tell me where version 6.6 can be found?

>

>Thanks

>

>John

>AB5SS

12. Gateway operation Questions

From: kinahan@ws007-fddi.bytex.network.com (Tom Kinahan @ws007)
Date: Mon, 6 Mar 95 12:46:21 EST
To: aprssig@tapr.org
Message-ID: <9503061746.AA27346@ws007-fddi>
Rendered body type: text/plain

I've found that I can operate a gateway with APRS and my KAM onto the local 2m APRS frequency. All the HF posits are fine, but the standard is that people

use the path ...GATE,WIDE as the standard path to get your packets onto local VHF nets. That's great.

Nobody in my area runs a WIDE digipeater (yet). My VHF range is limited.

As a result, all those gatewayed packets will only get seen by stations that see my gateway directly (not many).

Is there some way for me to get Hf posits sent to VHF via a path that will be seen? Perhaps make my mode VHF and hooking and sending HF posits as my own onto the local VHF net?

Thanks!

- Tom Kinahan N1CPE kinahan@bytex.network.com

13. Re: [APRSSIG:228] Re: Version...

From: K2ADJ@aol.com
Date: Mon, 6 Mar 1995 16:44:14 -0500
To: aprssig@tapr.org
Message-ID: <950306164229_41040583@aol.com>
Rendered body type: text/plain

Anytime you upgrade either with the upgrade package or with a new full package is to use the command

```
pkunzip -dn (filename) c:\aprs
```

Then it will automatically upgrade or replace any files that are new in your APRS directory.. There is one glitch and that is the main APRS program.. The new program will be something like APRS66.EXE, here is where you will need to make some adjustment somewhere, hi.

the arguments for the PKUNZIP -dn are "d" to put files in proper sub-directories and "n" replace only the newer files from the package.

73 de Rod

14. Re: [APRSSIG:229] Re: Version...

From: K2ADJ@aol.com
Date: Mon, 6 Mar 1995 22:21:00 -0500
To: aprssig@tapr.org
Message-ID: <950306222056_41443276@aol.com>
Rendered body type: text/plain

Jack, you are correct about the overwriting the MAPLIST.APR but there is a way to bring up APRS using your specially tailored maplist by using a different suffix.. Using that, when you use PKUNZIP -dn (filename)..etc. it will load in Bob Bruninga's new maplist and yours stays intact.. Then you can review his new version to see what changes have been made.

73 de Rod

15. Re: [APRSSIG:233] Re: Version...

From: janderson@ram.net
Date: Mon, 06 Mar 95 23:53:24 EST
To: aprssig@tapr.org
Message-ID: <15021591.0974@ram.net>
Rendered body type: text/plain

>Jack, you are correct about the overwriting the MAPLIST.APR but there is a
>way to bring up APRS using your specially tailored maplist by using a
>different suffix.. Using that, when you use PKUNZIP -dn (filename)..etc. it
>will load in Bob Bruninga's new maplist and yours stays intact.. Then you ca
>review his new version to see what changes have been made.

Good point, thanks! I've never used the -n option.

Jack

16. Re: [APRSSIG:234] Re: Version...

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Tue, 7 Mar 1995 08:40:48 -0800
To: aprssig@tapr.org
Message-ID: <199503071640.IAA17698@kilroy.jpl.nasa.gov>
Rendered body type: text/plain

>>Using that, when you use PKUNZIP -dn (filename)..etc. it
>>will load in Bob Bruninga's new maplist and yours stays intact.. Then you ca
>>review his new version to see what changes have been made.

I am not sure I understand. the -dn is going to check the files and find out that the MAPLIST.APR contained in the ZIP is newer, and will then pull it out, right? Will it not then overwrite your current MAPLIST.APR?

-Greg

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

17. Re: [APRSSIG:222] Ultimeter II

From: ChicagoWx@aol.com
Date: Tue, 7 Mar 1995 15:56:47 -0500
To: aprssig@tapr.org
Message-ID: <950307155646_42193188@aol.com>
Rendered body type: text/plain

How does everyone like the Ultimeter II?

I have several thousands dollars wrapped up in weather computers, but none that APRS supports, I would buy the Ultimeter II, but in my book its really inexpensive, is it any good?

Ron

18. Re: [APRSSIG:236] Re: Ultimeter II

From: janderson@ram.net
Date: Tue, 07 Mar 95 18:28:23 EST
To: aprssig@tapr.org
Message-ID: <15021591.097b@ram.net>
Rendered body type: text/plain

>How does everyone like the Ultimeter II?

>I have several thousands dollars wrapped up in weather computers, but none
>that APRS supports, I would buy the Ultimeter II, but in my book its really
>inexpensive, is it any good?
>Ron

I've had one for a couple of months and just interfaced it to APRS last week. I like it a lot - it's a good, basic weather station. I plan to get a rainfall unit for it shortly. I wish it could measure barometric pressure and relative humidity though.

Jack
n4uls@ram.net

19. Hooking, etc

From: Jess Girard <girard@panix.com>
Date: Tue, 7 Mar 1995 18:32:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950307182825.1234A-100000@panix.com>
Rendered body type: text/plain

I've been using the DOS version of APRS for a few weeks. I'm still not sure, however, how to do one thing which ought to be simple.

If I'm looking at another APRS station about 20 miles away, what's the command to find out bearing and distance to that station from mine? There must be such a command, but I can't figure it out. Friends say they know how, but thus far none has remembered when I asked.

Can someone please explain? Thanks in advance!

Jess Girard nd1l tcp/ip nd1l@n1cit.ampr.org (POP server)
Internet girard@panix.com or girardj@delphi.com

20. Re: [APRSSIG:238] Hooking, etc

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Tue, 7 Mar 1995 15:40:46 -0800
To: aprssig@tapr.org
Message-ID: <199503072340.PAA14903@ix2.ix.netcom.com>
Rendered body type: text/plain

You wrote:

```
>
>I've been using the DOS version of APRS for a few weeks. I'm still not
>sure, however, how to do one thing which ought to be simple.
>
>If I'm looking at another APRS station about 20 miles away, what's the
>command to find out bearing and distance to that station from mine?
There
>must be such a command, but I can't figure it out. Friends say they
know
>how, but thus far none has remembered when I asked.
>
>Can someone please explain? Thanks in advance!
>
>Jess Girard      nd1l      tcp/ip  nd1l@n1cit.ampr.org (POP server)
>                        Internet girard@panix.com or
girardj@delphi.com
>
>
Jess - move cursor over your home and hit HOME to center on you. Now
move cursor to object of interest and do MAP/PLOTS/RANGE RINGS and
you'll get the bearing and range in the box in the top left corner...I
give you this info off the top of my head, so I hope I got the menu path
right, but this should help.
Dan
```

```
--
-----
dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!
-----
```

21. Re: [APRSSIG:237] Re: Ultimeater II

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Tue, 7 Mar 1995 16:35:12 -0800
To: aprssig@tapr.org
Message-ID: <199503080035.QAA28257@kilroy.jpl.nasa.gov>
Rendered body type: text/plain

>I wish it could measure barometric pressure
>and relative humidity though.

It can't? I have a Kantronics KTU, and I was thinking that Davis makes
pressure and RH modules that it would work with. I *thought* that the UMII
did, and it would be the same modules...

-Greg

```
--
Gregory R. LaBorde - KD6MSM      | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory        | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET | Packet  : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive | Phone   : (818) 393-1107
Pasadena, CA 91109              |
```

22. Re: [APRSSIG:237] Re: Ultimeater II

From: schiers@ibm.net
Date: Tue, 07 Mar 95 18:04:35
To: aprssig@tapr.org
Message-ID: <9503080205.AA0279@localhost>
Rendered body type: text/plain

I have been using one for going on two years. I have no complaints and it
interfaces beautifully with aprs. Like others, I would love to have
barometric pressure, but that is my only reservation, and for the price,
it isn't much of a reservation at all.

Robert "hasan" Schiers N0AN
RR 2, BOX 71, Ames, IA 50010

23. Re: [APRSSIG:235] Re: Version...

From: jgarrett@world.std.com (John Garrett)
Date: Tue, 07 Mar 1995 19:39:16 -0500
To: aprssig@tapr.org
Message-ID: <qoFNlmpA4IJ3065yn@World.std.com>

Rendered body type: text/plain

```
" >>Using that, when you use PKUNZIP -dn (filename)..etc. it
">>will load in Bob Bruninga's new maplist and yours stays intact.. Then you ca
">>review his new version to see what changes have been made.
"
" I am not sure I understand. the -dn is going to check the files and find
" out that the MAPLIST.APR contained in the ZIP is newer, and will then pull
" it out, right? Will it not then overwrite your current MAPLIST.APR?
"
"-Greg
"
```

Greg:

Pkunzip will see the older version and ask if you want to overwrite it. As a matter of fact, it will give you the option to overwrite anything it finds, so you don't have to go through it for each file. Good luck!
John
WN9T

24. Re: [APRSSIG:235] Re: Version...

From: K2ADJ@aol.com
Date: Tue, 7 Mar 1995 22:12:35 -0500
To: aprssig@tapr.org
Message-ID: <950307221233_42626154@aol.com>
Rendered body type: text/plain

Using the PKUNZIP -dn arguments will overwrite your outdated files with new ones INCLUDING the maplist.xxx files..

Now, if you have a maplist that is tailored by yourself and you do not want it to be over written by new files, then rename the maplist.xxx to something like maplist.adj, using the last three letters of your callsign (adj being mine). Then when you use the PKUNZIP -dn it will not overwrite your tailored copy.. You can look at the new ones along with the new maps in the package and update your maplist.. Now, another thing, in the config##.apr file, the 3rd line is the name of the maplist, you want to change that so it is YOUR maplist that you want to run.

On my system I take the maplist.eas and rename it maplist.adj, in my config.apr file, I call upon maplist.adj when booting up so that the right maplist is called upon.

Now, when I upgrade, I don't loose any work that I have done and end up with the latest info from Bob.

Hope that this answers our question. 73 de Rod

25. Re: [APRSSIG:240] Re: Ultimeter II

From: janderson@ram.net
Date: Tue, 07 Mar 95 22:48:41 EST
To: aprssig@tapr.org
Message-ID: <15021591.0983@ram.net>
Rendered body type: text/plain

```
>It can't? I have a Kantronics KTU, and I was thinking that Davis makes
>pressure and RH modules that it would work with. I *thought* that the UMII
>did, and it would be the same modules...
>
>-Greg
```

There's nothing in the doc for the unit I have to add these options. The only vacant connector right now is the one for the rain gauge.

Jack

26. none

From: techman@ace.com (Techman)
Date: Tue, 7 Mar 95 22:07:38 EST
To: aprssig@tapr.org
Message-ID: <9503072207.0.UUL1.3#25274@ace.com>
Rendered body type: text/plain

[Empty message body]

27. Range Rings/Bearing

From: Jess Girard <girard@panix.com>
Date: Thu, 9 Mar 1995 14:41:45 -0500 (EST)
To: aprssig@tapr.org
Cc: dvelez@ix.netcom.com
Message-ID: <Pine.SUN.3.91.950309143817.9423A-100000@panix.com>
Rendered body type: text/plain

Dave:

It worked fine, The Map - Plot - RangeRings system works fine. I found a few commands in the Map/Plot subsystem I'd never tried before. Cool!

Thanks so much for your help.

Jess

nd1l@nd1l.ampr.org (nd1l@n1cit.ampr.org when I'm running APRS)
girard@panix.com girardj@delphi.com et al

28. Re: [APRSSIG:236] Re: Ultimeter II

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Thu, 9 Mar 1995 20:33:08 -0500 (EST)
To: ChicagoWx@aol.com
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9503092004.A25965-a100000@acme>
Rendered body type: text/plain

On Tue, 7 Mar 1995 ChicagoWx@aol.com wrote:

> How does everyone like the Ultimeter II?

I have had a ULT II up and running sense last May. The only problem that I have had has been one time when I had to reset it due to a close lightening strike.

> I have several thousands dollars wrapped up in weather computers, but none
> that APRS supports, I would buy the Ultimeter II, but in my book its really
> inexpensive, is it any good?

Maybe you your idea of inexpensive is different than mine. But then it's a matter of how much bang you want for your buck. The wx instrumnets are pretty much standard equipment, the wall mount has enough features to act as a good standalone unit, I didn't think much of the optional software, and it interfaces with APRS - what else could a ham want.

The Ohio Mapmaker - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JXO@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

29. info

From: techman@ace.com (Techman)
Date: Fri, 10 Mar 95 02:35:22 EST
To: aprssig@tapr.org
Message-ID: <9503100235.0.UUL1.3#25274@ace.com>
Rendered body type: text/plain

subscribe

30. GPS Receiver Recommendations?

From: <JCOSTER@WVNM.WVNET.EDU>
Date: Fri, 10 Mar 1995 07:58:37 EST
To: <aprssig@TAPR.ORG>
Message-ID: <199503101302.HAA19122@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

I've been running APRS for several weeks, both on HF and VHF. Would like to get going with a GPS interfaced now. I haven't seen any real discussion here about the pros and cons of the various GPS units. Other than being sure that there is an NMEA output on the unit, what should I look for? Any to avoid for this intended use? Thanks.
Jack, WF8X. Morgantown, West Virginia.

31. Re: [APRSSIG:249] GPS Receive...

From: Bwimmers@aol.com
Date: Fri, 10 Mar 1995 11:52:07 -0500
To: aprssig@tapr.org
Message-ID: <950310101729_45248936@aol.com>
Rendered body type: text/plain

The low end Garmins seem to work real well, the GPS-45 is a very good unit. Price is around \$399.00 (But shop around for best price.) I have been using the GPS-50 (no longer made) and a couple others around here are using the GPS-75. We have had no problem with them while in use as APRS standalone trackers.

Other units include the Magelan Meridians. New units do include the RMC string, but I understand they can sent to the factory and reprogrammed with the RMC string. (RMC is the string put out by the GPS and includes course, speed, & bearing).

One point on the marine Garmin, they quit working above 90 knots, so if plan to use them areomobile, these won't work.

Hope this helps,

73

Bernie KC4YMP

32. Re: [APRSSIG:249] GPS Receive...

From: N9VJQ@aol.com
Date: Fri, 10 Mar 1995 12:37:17 -0500
To: aprssig@tapr.org
Message-ID: <950310103556_45262055@aol.com>
Rendered body type: text/plain

You wrote:

I've been running APRS for several weeks, both on HF and VHF. Would like to get going with a GPS interfaced now. I haven't seen any real discussion here about the pros and cons of the various GPS units. Other than being sure that there is an NMEA output on the unit, what should I look for? Any to avoid for this intended use? Thanks.
Jack, WF8X. Morgantown, West Virginia.

I don't have a GPS, but our knowledgeable people say the Garmin 45 is a good inexpensive unit.

73's

Barry n9vjq
n9vjq@aol.com

33. Re: [APRSSIG:250] Re: GPS Receive...

From: jgarrett@world.std.com (John Garrett)
Date: Fri, 10 Mar 1995 17:05:21 -0500
To: aprssig@tapr.org
Message-ID: <XqC01mPA4w9N065yn@World.std.com>
Rendered body type: text/plain

" The low end Garmins seem to work real well, the GPS-45 is a very good unit.
" Price is around \$399.00 (But shop around for best price.) I have been using

GPS 45's are now \$299 in the Boston area, at E&B Marine [which has stores all over, I believe]. They work very well!!

John
WN9T

34. Re: [APRSSIG:252] Re: GPS Rec...

From: ChicagoWx@aol.com
Date: Sat, 11 Mar 1995 15:33:20 -0500
To: aprssig@tapr.org
Message-ID: <950311153317_46398812@aol.com>
Rendered body type: text/plain

I would like the phone number for E&B to see if the \$299 price is still available on the GPS-45, that is a good price...

Ron

35. Mapfixer.bas

From: stewart@kepler.IFA.Hawaii.Edu (Christopher Stewart)
Date: Sat, 11 Mar 95 15:45:10 HST
To: aprssig@tapr.org
Message-ID: <9503120145.AA01709@kepler.ifa.hawaii.edu>
Rendered body type: text/plain

Well no one answered my previous question on converting the usgs maps 1:1000000 so after many days finally (I hope) found it to work. Now my problem is the mapfix program. At the place where you give the alt-u command to import the rd*.grf files nothing happens on the screen. So far as I can tell, the program doesn't even access the disk drive to get the file. Any assistance

with this would be realllllly appretiated. Tnx Chris/AH6GG.

36. RE: [APRSSIG:254] Mapfixer.bas

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
Date: Sat, 11 Mar 1995 23:54:43 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <950311235443.6e3e@CRPL.CEDAR-RAPIDS.LIB.IA.US>
Rendered body type: text/plain

What did you do to get the 1:100,000 to work; I keep getting an out of string space error that just drives me nuts. I've seen Mac APRS just insert the DLD ----oops--- DLG CDR0M and 5 minutes later there's the map

37. Re: [APRSSIG:253] Re: GPS Rec...

From: Jess Girard <girard@panix.com>
Date: Sun, 12 Mar 1995 11:11:24 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950312110914.5239A-100000@panix.com>
Rendered body type: text/plain

On Sat, 11 Mar 1995 ChicagoWx@aol.com wrote:

> I would like the phone number for E&B to see if the \$299 price is still
> available on the GPS-45, that is a good price...

One of my friends purchased one three days ago at E&B in Darien, CT. I would be quite surprised to find the offer suddenly withdrawn. E&B is a supplier of boating accessories; this is the time one would expect such toys to be in large supply in view of the upcoming boating season.

Jess Girard
nd11

38. Re: Mouse

From: rberger@metronet.com (Randy Berger)
Date: Sun, 12 Mar 1995 12:15:53 -0600
To: aprssig@tapr.org
Message-ID: <199503121711.AA01900@metronet.com>
Rendered body type: text/plain

Has any experience problems with APRS Ver. 6.6 using a mouse on a P5 system.

My mouse
is connect to COM port 2 and works eratically when moved (i.e. the screen will move very fast and sometimes zoom in/out while moving the mouse). All other software on my machine works just fine with the mouse (Windows/APP's/Games). I have tried both not loading the mouse driver as suggested and also with it loaded... same results each time.

Randy
WA0D

>

=====
Randy Berger (WA0D) E-Mail: rberger@metronet.com
=====

39. Re: [APRSSIG:255] RE: Mapfixer.bas

From: Emmet2@aol.com
Date: Sun, 12 Mar 1995 12:57:18 -0500
To: aprssig@tapr.org
Message-ID: <950312125717_47053188@aol.com>
Rendered body type: text/plain

<<
What did you do to get the 1:100,000 to work; I keep getting an out of string space error that just drives me nuts. I've seen Mac APRS just insert the DLD ----oops--- DLG CDR0M and 5 minutes later there's the map
>>

What is DLG, how much does it cost, and where do you get it?

Also, how detailed are the maps?

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)

= Emmet2 (America Online) = emmet2@aol.com (internet)
= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

40. CD-ROM maps

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Sun, 12 Mar 1995 19:31:17 CST
To: aprssig@tapr.org
Cc: esic@mcgds01.cr.usgs.gov
Message-ID: <0098D438.4F53F5E4.65@INS.INFONET.NET>
Rendered body type: text/plain

The "DLG" CD-ROM can be obtained from :

USGS
ROLLA EISC
U.S.GEOLOGICAL SURVEY
1400 Independence Road
Rolla, MO 65401
314-341-0811 touch 1 for product orders

They will accept VISA the cost is/was \$32 per disk. Ask for the
US GeoData disk. The 1:2,000,000-Scale DLG data disk it is in ISO 9660.

I put my order in about 4 PM and it was dlvd via Fed EX or Express mail
two days later by noon!!!!!! (In fact I think it was the next day! Though
I may be wrong)
Too bad all gov't agencies aren't that responsive!
73, Bill
P.S. TNX Folks at Rolla!!!

41. Re: [APRSSIG:253] Re: GPS Rec...

From: jgarrett@world.std.com (John Garrett)
Date: Sun, 12 Mar 1995 00:09:56 -0500
To: aprssig@tapr.org
Message-ID: <a8e0lmPA4MGV065yn@World.std.com>
Rendered body type: text/plain

They may have an 800 number too. Locally its 617-933-3290. I bought a
power/data cable there yesterday for my gps45, and they were listed in
the display case at \$299, which means if you find a better deal they'll
match it. For 800 Info, dial 18005551212. 73
John
WN9T

42. Re: [APRSSIG:258] RE: Mapfixer.bas

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>
Date: Sun, 12 Mar 1995 18:55:08 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <9503121855.aa15592@comix.Santa-Cruz.Ca.US>
Rendered body type: text/plain

> What is DLG, how much does it cost, and where do you get it?
> Also, how detailed are the maps?

There's some information on DLG CDROM's in \APRS\README\CDROM.TXT.
Here's a bit more.

DLG is Digital Line Graph data. What you want is:
1:100,000-Scale DLG Hydrography and Transportation
US GeoData OPTIONAL FORMAT. Make sure you order the Optional format.
The easiest way to order is from the USGS at 1-800-USA-MAPS. \$35?
Mine is dated May 1993.

There are 14 areas available.

1. Northeastern States
2. Middle Atlantic States
3. Southeastern States
4. Florida
5. Southern Mississippi Valley States.
6. Central Mississippi Valley States.
7. Northern Great Lakes States.
8. Texas and Oklahoma
9. Central Plains States.
10. Northern Plains States.
11. Arizona and New Mexico
12. Central Pacific States.
13. Northwestern States.
14. Hawaiian Islands.

You will need to know the area number before ordering as the order taker sometimes has no clue. If you need help identifying which state goes with which map, please send email.

Each CDRom contains maps which are divided into layers and quads (quadrants).
The layers are:

- hydrography (rivers, lakes and streams).
- misc transportation.
- railroads.
- roads.

Each quadrant is further divided into 15 minute cells. In extremely detailed areas, the map is further divided into 7.5 minute cells. A dump of everything in a typical 15 minute cell generates 4MB of data. Some discretion is advised or your hard disk will rapidly fill. I suggest that one reads the "Getting Started" on the DLG CDRom before attacking as the user interface is a bit bizarre. There is also a users guide (in ascii and wp5.1 format) on the CDRom explaining usage and file formats.

One big catch. There are no map labels. No city names, no streets, and no river names. There are also no landmarks (mountain tops). These will all need to be added by hand.

I hope this helps.

--
Jeff Liebermann Box 272 1540 Jackson Ave Ben Lomond CA 95005
408.336.2558 voice wb6ssy@ki6eh.#nocal.ca.usa wb6ssy.ampr.org [44.4.18.10]
408.699.0483 digital_pager 73557,2074 cis [don't]
jeffl@comix.santa-cruz.ca.us scruc.ucsc.edu!comix!jeffl

43. Re: [APRSSIG:256] Re: GPS Rec...

From: JayMillard@aol.com
Date: Sun, 12 Mar 1995 22:38:14 -0500
To: aprssig@tapr.org
Message-ID: <950312221647_47522832@aol.com>
Rendered body type: text/plain

Jess Girard mentioned E&B Marine in Darien, CT as the source of Garmin GPS, in response to an inquiry about E&B. The phone number for E&B Discount Marine in Darien is (203) 655-8737. They are a chain, this is not their only store.
Jay Millard KD1LY

44. RE: [APRSSIG:258] RE: Mapfixer.bas

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
Date: Mon, 13 Mar 1995 0:10:10 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <950313001010.6c9c@CRPL.CEDAR-RAPIDS.LIB.IA.US>
Rendered body type: text/plain

<What is DLG, how much does it cost, and where do you get it?
<What is DLG, how much does it cost, and where do you get it?>

D)igital L)ine G)raph Roads,railroads, rivers, lakes ect in 1:100000 scale
you can get it from USGS Reston, Virginia

Cost Depends on if you want a full set or just regional

45. Re: [APRSSIG:260] Re: GPS Rec...

From: Emmet2@aol.com
Date: Mon, 13 Mar 1995 01:13:39 -0500
To: aprssig@tapr.org
Message-ID: <950313011235_47677731@aol.com>
Rendered body type: text/plain

The only reason I can see to have a GPS at this point would be for mobile APRS operations. Unfortunately my Mac Powerbook only has one serial port (and an internal modem). Has anyone figured a way to input from a GPS (serial) while going in/out from a TNC (also serial) on a Mac (only one serial port)?

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)

= Emmet2 (America Online) = emmet2@aol.com (internet)
= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

46. Re: [APRSSIG:259] CD-ROM maps

From: Emmet2@aol.com
Date: Mon, 13 Mar 1995 01:13:38 -0500
To: aprssig@tapr.org
Message-ID: <950313011232_47677699@aol.com>
Rendered body type: text/plain

<<
They will accept VISA the cost is/was \$32 per disk. Ask for the
US GeoData disk. The 1:2,000,000-Scale DLG data disk it is in ISO 9660.
>>

Do you have to specify an area, or does that cover all the USA?

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
= Emmet2 (America Online) = emmet2@aol.com (internet)
= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

47. Re: [APRSSIG:255] RE: Mapfixer.bas

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Mon, 13 Mar 95 7:52:18 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.795099138.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

To use the DLG 1:100,000 you need LOTS of memory.. 20meg is a good place to
START. 28 meg is better.. Yes, it is a MEMORY HOG.. But it is FAST... I did
not expect the 'faint-at-heart' to do this much, and the memory intensive way
was MUCH less painfull than the alternatives...

Give me a call and I will try to help you through it..

Keith

Keith Sproul	WU2Z
Student Housing Network Adminstrator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

48. Re: [APRSSIG:264] Re: GPS Rec...

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Mon, 13 Mar 95 8:03:32 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.795099812.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

> Has anyone figured a way to input from a GPS
(serial) while going in/out from a TNC (also serial) on a Mac (only one
serial port)?

Fortunately, most of the PowerBooks have two serial ports, however, this is a
problem that has been solved very nicely by Paccomm's new PicoPacket.

The Pico Packet is a TNC that has an optional GPS unit available for it. When
configured in this mode, you can talk to both the TNC and the GPS through the
same serial port. This unit will be available by Dayton, and will solve a
lot of the mobile problems for both Macs and PCs..

Keith Sproul

Keith Sproul	WU2Z
Student Housing Network Adminstrator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

49. Re: [APRSSIG:231] Gateway operation Questions

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 13 Mar 1995 09:02:08 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950313090030.29470D@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Digipeat paths are set by the originators. That means that all HFers that go via GATE,WIDE (the standard) will only go via a TNC with the alias of WIDE after passing through the gate. All you need to do is get someone with a good antenna to set his alias to WIDE and leave his TNC on the air. All HF gatewayed packets will then be digipeated by him.

50. Re: [APRSSIG:238] Hooking, etc

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 13 Mar 1995 09:06:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950313090525.29470E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

To read Rang ane bearing to a nother station, simply move the cursor to his location and hit MAPS-PLOTS-RANGERINGS and the range and bearing from the center of the screen (your location) to his location will be shown in the upper left hand corner of the screen...

51. 1:100,000 DLG data

From: jlf@achilles.mitre.org (James L. Fisher x6117)
Date: Mon, 13 Mar 95 09:51:45 EST
To: aprssig@tapr.org
Message-ID: <9503131451.AA14749@achilles.mitre.org>
Rendered body type: text/plain

To learn more about the 1:100,000 DLG data (from the USGS itself), point your World Wide Web (WWW) browser to the URL

<http://sun1.cr.usgs.gov/glis/hyper/guide/100kdlg>
or its parent

<http://sun1.cr.usgs.gov/glis/glis.html>
(ordering info is provided). The first URL also points out that hydrography and transportation information is also available via anonymous FTP:
<ftp://edcftp.cr.usgs.gov/pub/data/DLG/100K>

--jim/WB3LFB

WB3LFB@W3INK.MD.USA.NOAM

JamesL.FisherPhD//The MITRE Corp//Center for Info Sys//McLean VA//jlf@mitre.org
703-883-6117

52. Re: [APRSSIG:269] Re: Hooking, etc

From: Jess Girard <girard@panix.com>
Date: Mon, 13 Mar 1995 10:22:34 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950313102012.24345A-100000@panix.com>
Rendered body type: text/plain

On Mon, 13 Mar 1995, Robert Bruninga wrote:

> To read Rang ane bearing to a nother station, simply move the cursor to
> his location and hit MAPS-PLOTS-RANGERINGS and the range and bearing from
> the center of the screen (your location) to his location will be shown in
> the upper left hand corner of the screen...

Hi Bob:

This was in reply to my question last week. Thanks for taking the trouble to let me know. I really ought to print out all the readme files and pore over them.

As usual, the vertical learning curve can hurt (when you bang your head against it!)

73
Jess ndll

53. Re: [APRSSIG:270] 1:100,000 DLG data

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Mon, 13 Mar 1995 11:57:59 -0500
To: aprssig@tapr.org
Message-ID: <9503131700.AA25976@eliza>
Rendered body type: text/plain

Besides downloading the DLG files from the site is there another piece of software that I need to extract the correct data from the DLG files online. I don't mean the GZIP program. I tried to take the OPT files and use them directly with the 100toGRF.bas and I keep getting some kind of String error.....

```
>
> To learn more about the 1:100,000 DLG data (from the USGS itself), point your
>World Wide Web (WWW) browser to the URL
>   http://sun1.cr.usgs.gov/glis/hyper/guide/100kd1g
> or its parent
>   http://sun1.cr.usgs.gov/glis/glis.html
> (ordering info is provided). The first URL also points out that hydrography
>and transportation information is also available via anonymous FTP:
>   ftp://edcftp.cr.usgs.gov/pub/data/DLG/100K
>
>--jim/WB3LFB                               WB3LFB@W3INK.MD.U.S.A.NOAM
>
>JamesL.FisherPhD//The MITRE Corp//Center for Info Sys//McLean VA//jlf@mitre.org
> 703-883-6117
>
>
>
//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd
```

54. APRS and OS/2

From: <ROBERTST@BENNING-EMH1.ARMY.MIL>
Date: Mon, 13 Mar 95 12:47:32 EST
To: <aprssig@tapr.org>
Message-ID: <199503131750.LAA05776@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

Has anyone had any luck getting APRS to run in a window on the OS/2 desktop. Mine works fine full screen but when I try to run it as a window I get the message that "the video mode is not supported." I understand that it will run under windows in a mode other than full screen.

Thanks,
Tom

55. Re: [APRSSIG:264] Re: GPS Rec...

From: jgarrett@world.std.com (John Garrett)
Date: Mon, 13 Mar 1995 13:55:06 -0500
To: aprssig@tapr.org
Message-ID: <AK9PlmPA4wfV065yn@World.std.com>
Rendered body type: text/plain

" The only reason I can see to have a GPS at this point would be for mobile
" APRS operations. Unfortunately my Mac Powerbook only has one serial port
" (and an internal modem). Has anyone figured a way to input from a GPS
" (serial) while going in/out from a TNC (also serial) on a Mac (only one
" serial port)?
"

" - Chip Griffin aka Granite
" - President of Thames River Apple Users Group
" - SysOp of The Quarry LLBBS (203-889-6427)
" = Emmet2 (America Online) = emmet2@aol.com (internet)
" = N1MIE@N10KK.CT.U.S.A (packet) = 1:320/301 (fidonet)
"

Check out the README files. You can switch manually or automatically;
the tnc and gps can share the port with no problems. I know a few
people who do it this way.

John
WN9T

56. Re: [APRSSIG:232] Re: Version...

From: KA4WZD@aol.com
Date: Mon, 13 Mar 1995 15:51:39 -0500
To: aprssig@tapr.org
Message-ID: <950313155137_48199594@aol.com>
Rendered body type: text/plain

{WHY} is this message "CONTINUALLY" Sent {EVERY TEN SECONDS} or less for [M
O R E T H A N A W E E K] ?

de Leroy, KA4WZD

57. Re: [APRSSIG:275] Re: Version...

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Mon, 13 Mar 1995 13:24:53 -0800
To: aprssig@tapr.org
Message-ID: <199503132124.NAA19969@ix4.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>{WHY} is this message "CONTINUALLY" Sent {EVERY TEN SECONDS} or less
for [M
>O R E T H A N A W E E K] ?
>
>
> de Leroy, KA4WZD
>
>
>
What message?????

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

58. Re: [APRSSIG:273] APRS and OS/2

From: mxdp!twade@mxdp.afsv.af.mil (Tom Wade)
Date: Mon, 13 Mar 95 15:41:28 CST
To: aprssig@tapr.org
Message-ID: <9503132141.AA03556@mxdp.afsv.af.mil>
Rendered body type: text/plain

Hello Tom. You can run aprs in a window under os/2 by doing the following:
Set your video mode to cga only. This will allow aprs to run in a window,
but it will not have color. Then when you start up aprs, click on the upper
left block and pick scaled image. Like I said, it will not be in color, but
it will multitask.

73's
Tom

59. Re: [APRSSIG:232] Re: Version...

From: KA4WZD@aol.com
Date: Mon, 13 Mar 1995 20:40:17 -0500
To: aprssig@tapr.org
Message-ID: <950313204015_48546534@aol.com>
Rendered body type: text/plain

THIS is the Message I keep getting "EVERY 10 SECONDS" or less! If I can't
get this stopped, I will have no Choice but to "UN-SUBSCRIBE" to a List I
would like to keep! Please Give assistance in Correcting this matter---I am
new to the List and Claim no understanding of the technocalities involved!

De Leroy, KA4WZD

60. Re: [APRSSIG:274] Re: GPS Rec...

From: "Don Robinson" <robinsod@poly.waiariki.ac.nz>
Date: Tue, 14 Mar 1995 14:56:37 +1300
To: aprssig@tapr.org
Message-ID: <m0roLrV-0002ceC@poly.waiariki.ac.nz>
Rendered body type: text/plain

Can you tell me the FAX no of E and B. Would like to see if they will
AIR MAIL a Garmin GPS 45 to me here in NZ. Do you know price of data
cable and does it have a software package as well? The reason for my
interest is that the 45 price here in NZ is about \$1100 US equiv -
hence the interest. I dont like being stung for gear!!
Thanks in anticipation - hope you dont mind the query.
Don Robinson ZL2QX
robinsod@poly.waiariki.ac.nz

61. Re: GPS Rec...

From: "Craig L. Lindsey" <cll4@Ra.MsState.Edu>
Date: Mon, 13 Mar 1995 20:25:03 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950313202122.17261A-100000@Isis.MsState.Edu>

Rendered body type: text/plain

I saw in one of the computer catalogs I get a new GPS that plugs into a PCMCIA slot. I don't know if ya'll have seen this yet, but it sounds like a winner for those with laptops and only 1 serial port. If I had a laptop, I'd sure get one.

73,
Craig

Craig Lindsey - KC5AUG | My politics are simple: Always go right. If
Internet: cll4@ra.msstate.edu| you go left, you can never go right, and if
Office Phone : (601)325-8553 | you go right, you never go wrong. -Grizzard
WWW page: <http://www2.msstate.edu/~c114/>
Finger cll4@ra.msstate.edu for PGP public key.

62. Re: [APRSSIG:264] Re: GPS Rec...

From: pbcaryl@ix.netcom.com (Paul Carlin)
Date: Mon, 13 Mar 1995 18:46:10 -0800
To: aprssig@tapr.org
Message-ID: <199503140246.SAA14097@ix3.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>The only reason I can see to have a GPS at this point would be for
mobile
>APRS operations. Unfortunately my Mac Powerbook only has one serial
port
>(and an internal modem). Has anyone figured a way to input from a GPS
>(serial) while going in/out from a TNC (also serial) on a Mac (only one
>serial port)?
>
>- Chip Griffin aka Granite
>- President of Thames River Apple Users Group
>- SysOp of The Quarry LLBBS (203-889-6427)
>= Emmet2 (America Online) = emmet2@aol.com (internet)
>= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)
>
>
>

HI yes look at the AEA TNC GPS version in the book they show a schematic
on the very thing that you want aea sells cable for \$30 make it for
10-15\$ good luck Paul

63. Re: [APRSSIG:277] Re: APRS and OS/2

From: Michael Walker <mwalker@gold.interlog.com>
Date: Mon, 13 Mar 1995 22:23:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199503140323.WAA24054@gold.interlog.com>
Rendered body type: text/plain

>
> Hello Tom. You can run aprs in a window under os/2 by doing the following:
> Set your video mode to cga only. This will allow aprs to run in a window,
> but it will not have color. Then when you start up aprs, click on the upper
> left block and pick scaled image. Like I said, it will not be in color, but
> it will multitask.
>
> 73's
> Tom
>

I run it just fine using a normal dos box and not setting the parms to CGA.
I usually run it in a full screen mode, but I just use ctrl-home to bring
it to presentation manager. I can see me APRS in one screen, and my packet
on another (different com port).

Works great (currently using warp)

Cheers...mike mwalker@interlog.com

64. PK-12 in HSP mode

From: Michael Walker <mwalker@gold.interlog.com>
Date: Mon, 13 Mar 1995 22:33:21 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <199503140333.WAA24571@gold.interlog.com>
Rendered body type: text/plain

I have found a bug (oh no!) in the PK-12 software. It seems that when you are using a PK-12 in standalone mode (not in HSP mode like I said in the comment line), that the GLL data is not separated from the VTG data.

According to Bob, there must be a CR/LF between the two data streams.

I have made AEA aware of this and as soon as the programmer gets off the current project, he will make the correct changes to the EPROM.

Please do not bug (oh no!) AEA about this unless you are experiencing the problem. (IE: you are running with a GPS in standalone mode)

I'll let you know when the fix is available.

Cheers...mike

Mike Walker mwalker@interlog.com
VA3MW

65. Gateway functions

From: Michael Walker <mwalker@gold.interlog.com>
Date: Mon, 13 Mar 1995 22:35:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199503140335.WAA24686@gold.interlog.com>
Rendered body type: text/plain

I know that this has probably been asked a couple of times, but I can't seem to get it to work.

I have an AEA DSP-2232 with HF on port 1 and VHF on port 2

I need to invoke the gateway from HF to VHF.

What is the blow by blow method for setting up APRS???

Thanks in advance...mike

66. RE: [APRSSIG:278] Re: Version...

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
Date: Mon, 13 Mar 1995 22:26:12 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <950313222612.82c0@CRPL.CEDAR-RAPIDS.LIB.IA.US>
Rendered body type: text/plain

<<<THIS is the Message I keep getting "EVERY 10 SECONDS" or less!

I've never seen any message like you describe coming from this list. Could it be coming from your service provider (AOL) or could you be the victim of a mail bomb? Try unsubscribing for a day and then subscribe again and see if the problem returns.
Any other ideas out there on this?

67. Re: [APRSSIG:267] Re: GPS Rec...

From: Emmet2@aol.com
Date: Tue, 14 Mar 1995 00:26:11 -0500
To: aprssig@tapr.org
Message-ID: <950314002353_48808930@aol.com>
Rendered body type: text/plain

I guess I never examined any other PB's besides the one I've got.

<<

The Pico Packet is a TNC that has an optional GPS unit available for it. When configured in this mode, you can talk to both the TNC and the GPS through the same serial port. This unit will be available by Dayton, and will solve a lot of the mobile problems for both Macs and PCs..
>>

How much is this going to retail for? How much for the GPS option?

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
= Emmet2 (America Online) = emmet2@aol.com (internet)

= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

68. Re: [APRSSIG:274] Re: GPS Rec...

From: Emmet2@aol.com
Date: Tue, 14 Mar 1995 00:26:13 -0500
To: aprssig@tapr.org
Message-ID: <950314002359_48809063@aol.com>
Rendered body type: text/plain

<<

Check out the README files. You can switch manually or automatically;
the tnc and gps can share the port with no problems. I know a few
people who do it this way.
>>

I'll have to look. I don't know what you mean by 'share' the port ... with a
'y' splitter or something?

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
= Emmet2 (America Online) = emmet2@aol.com (internet)
= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

69. Re: [APRSSIG:266] RE: Mapfixer.bas

From: Emmet2@aol.com
Date: Tue, 14 Mar 1995 00:27:05 -0500
To: aprssig@tapr.org
Message-ID: <950314002350_48808864@aol.com>
Rendered body type: text/plain

<<

To use the DLG 1:100,000 you need LOTS of memory.. 20meg is a good place to
START. 28 meg is better.. Yes, it is a MEMORY HOG.. But it is FAST... I did
not expect the 'faint-at-heart' to do this much, and the memory intensive way
was MUCH less painfull than the alternatives...
>>

You aren't talking RAM are you? Good grief. Who actually has 28MB RAM?
Will Virtual work? How fast is it if you use virtual?

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
= Emmet2 (America Online) = emmet2@aol.com (internet)
= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

70. Re: [APRSSIG:280] Re: GPS Rec...

From: Emmet2@aol.com
Date: Tue, 14 Mar 1995 00:27:11 -0500
To: aprssig@tapr.org
Message-ID: <950314002403_48809139@aol.com>
Rendered body type: text/plain

<<

I saw in one of the computer catalogs I get a new GPS that plugs into a
PCMCIA slot. I don't know if ya'll have seen this yet, but it sounds
like a winner for those with laptops and only 1 serial port. If I had a
laptop, I'd sure get one.
>>

That is true, and is an option. This computer, however, requires a ~\$200
adapter to do that though. I would like to pursue other options first,
especially since none of those yet seem to like Macs.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
= Emmet2 (America Online) = emmet2@aol.com (internet)
= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

71. Re: [APRSSIG:285] Re: Version...

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Mon, 13 Mar 1995 22:14:08 -0800
To: aprssig@tapr.org
Message-ID: <199503140614.WAA05257@ix4.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>
><<<THIS is the Message I keep getting "EVERY 10 SECONDS" or less!
>
>I've never seen any message like you describe coming from this list.
>Could it be coming from your service provider (AOL) or could you
>be the victim of a mail bomb? Try unsubscribing for a day and the
>n subscribe again and see if the problem returns.
>Any other idea's out there on this?
>
>
I'll second that....

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

72. PACCOM Handy packet

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Mon, 13 Mar 1995 22:17:18 -0800
To: aprssig@tapr.org
Message-ID: <199503140617.WAA05498@ix4.ix.netcom.com>
Rendered body type: text/plain

Need one? Two? I've got a couple with the Ver 3.2b ROM (Aug 94)...about the size of a pack of cigarettes and the support GPS mode.
EMAIL dvelez@ix.netcom.com

Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

73. Re: [APRSSIG:264] Re: GPS Rec...

From: BHVP28A@prodigy.com (MR JEFFREY L MOTHERSBAUGH)
Date: Tue, 14 Mar 1995 08:05:16 EST
To: aprssig@tapr.org
Message-ID: <013.04466074.BHVP28A@prodigy.com>
Rendered body type: text/plain

Check out the new Paccom Tnc. It has a built in GPS radio along with a tnc in one unit.

Jeff

74. Re: [APRSSIG:280] Re: GPS Rec...

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 14 Mar 1995 09:14:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950314091214.2304D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Concerning the GPS units that plug into a PCMCIA card slot. Be cautious, I do NOT know how PCMCIA cards work. APRS can ONLY operate with a GPS unit operating via a standard COM1 or COM2. If the PCMCIA GPS card can be made to LOOK like a COM port, then it should work. Otherwise it will NOT work with APRS... (unless someone can tell me how to do it....)

75. PK-12 in STAND ALONE MODE

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 14 Mar 1995 09:22:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950314091721.2304E@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

To reiterate the earlier message about the GLL/VTG bug in the PK-12, it ONLY affects STAND ALONE MODE, and it will only be noticed if your GPS DOES NOT OUTPUT the RMC sentence. In otherwords, the RMC sentence

includes both position, course and speed in ONE packet, whereas some GPS units and ALL LORANS only have the GLL and separate VTG sentence.

If you are using STAND ALONE mode AND you are using GLL and VTG, then you have a problem, in that the VTG will NOT be seen by APRS, since it is not separated by the PK-12 with a CR/LF.

The reason they didnt catch it, of course, is that most GPS units output RMC and that is much better to use (only 1 packet vice 2)...

76. Re: [APRSSIG:284] Gateway functions

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 14 Mar 1995 09:24:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950314092244.2304F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Operating your station as a HF to VHF gateway HAS NOTHING TO DO WITH APRS. It is purely a TNC function. The TNC will gateway without even being connected to a PC or APRS. SO just set up your TNC to gateway packets addressed via GATE to be gatewayed by your station. In the KAM, all you have to do is to set MYgate to GATE and set GATEWAY ON...

77. Re: [APRSSIG:287] Re: GPS Rec...

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 14 Mar 1995 09:28:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950314092547.2304G-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Regarding sharing a COM port with the MAC. Check with KEITH SPROUL who wrote the program. The HSP (hardware single port mode) switch circuit that lets the GPS and TNC share the same COM port requires APRS to do the switching using HARDWARE handshaking lines. Unless the MACaprs ALSO has included this software code, then the HSP switch will NOT work. Lets see what Keith says....

78. APRS via SAREX!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 14 Mar 1995 09:47:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950314093320.2304H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I left my APRS on the SAREX freq overnight and picked up 3 BEACONS digipeated by the shuttle! This means that Ron Parise has turned on the DIGI for UI frames ONLY. (I read this to mean APRS is fair game for the remainder of the mission when the PACKET is on the air). To use APRS as an excellent tool for SAREX, please consider the following:

- 1) Receive on 145.55. Transmit split on 144.49. DO NOT XMT on 55!!!!
- 2) Set APRS to GRIDSQUARE mode (alt-G or alt-S-MODES-GRIDSQ for v6.6)
- 3) Do NOT send any MSGS or BLTNS
- 4) During a pass hit the X key to force a POSIT report
- 5) Use alt-B to change your BText to something like SAREX test... (remember, the shorter the better. Maybe even none...)
- 6) READ the SPACE.TXT file!

APRS users will actually be sending fewer packets than ALL other stations that are trying to connect to SAREX, and as long as ou DO NOT transmit on 55, this should be a good gentlemenly experiment. Good luck!

79. LORAN

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 14 Mar 1995 09:55:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950314094721.2304I-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I visited the local boat store, BOAT US, and they have the Magellan Meridian for about \$283 but I had heard that the GARMIN 45 was being sold at a regular price of \$299. I would get the GARMIN UNLESS you will ever take it FLYING (it stops working at 90 kts)...

What caught my eye was the \$139 clearance price on INTERPHASE PILOT-2 LORANS. This unit only draws 50 MA! (all GPS units that I have seen are from 180 to 250 MA). I almost baught one, just to put on the wife's car, but then I already have GPS for that and finally talked myself out of it,

since you should be able to get used LORANS from just about anyone for \$25...

BUT, If you want to make a LOW power stand alone tracker and can put up with a 50 inch or longer whip antenna, then this is the cheap way to go. A balloon could use just a slim piece of wire for the antenna, so this might be an attractive way to go... The device has NMEA outputs of GLL and VTG of course....

80. Re: [APRSSIG:288] RE: Mapfixer.bas

From: Tom_McGee@bmugbos.org (Tom McGee)
Date: Tue, 14 Mar 95 12:34:32 EST
To: Emmet2@aol.com
Cc: aprssig@tapr.org
Message-ID: <00134F71.fc@bmugbos.org>
Rendered body type: text/plain

>> You aren't talking RAM are you? Good grief. Who actually has 28MB RAM?

I've got 32 meg in a 486/50 and 17 megs in a Mac IIsi. I have a friend who does image processing with PhotoShop and frequently runs out of RAM. He has 64 megs or so. Scary.

I just joined this list and came in late on the topographic maps on CD ROM discussion. Which one is best and where do you get it?

73, de kaltox

81. Re: [APRSSIG:299] RE: Mapfixer.bas

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Tue, 14 Mar 95 11:33:27 EST
To: aprssig@tapr.org
Cc: sproul@eos.ap.org
Message-ID: <CMM-RU.1.4.795198807.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

>>> You aren't talking RAM are you? Good grief. Who actually has 28MB RAM?

>I've got 32 meg in a 486/50 and 17 megs in a Mac IIsi. I have a friend who >does image processing with PhotoShop and frequently runs out of RAM. He has >64 megs or so. Scary.

>I just joined this list and came in late on the topographic maps on CD ROM >discussion. Which one is best and where do you get it?

My original comment about the RAM was ment to go to an individual, not the entire group, but thats what happens when you get spoiled by your mail system.

To CREATE the high-res maps on the Macintosh, (FROM THE 1:100,000 scale CDs) you need at least 20 meg of RAM for the program.

!!!!HOWEVER!!!! This ONLY to CREATE the map files, NOT to use them. Any one with the program and even just a 6 meg or so can run these maps just fine.

My brother, (KB2ICI) also does a lot of stuff with imaging, he has about 300 NASA CD-ROMs, and also writes color image software for the Associated Press has 90meg in one of his main machines and 76meg in the other.

We both have 28meg in our Macintosh PowerBook 540Cs...

The capability to create the 1:100,000 scale maps has not been released in the Mac version yet due to a math conversion problem which I have not had time to get back to to fix. The maps genneraly run .1 mile off when converting the UTM coordinates to Lat/Lon. When I get this fixed, I will release this capability too.

The map interace for this is a really cool point, double-click and check a few check boxes, it then creates the maps 1-2-3!!! Really slick..

This is the interface stuff I am going to be implenting sometime this summer to allow the MacAPRS to create PC map files. I am going to work on significant amounts of data reduction, line-joining algorythms and the like to allow the maps files to get down to the 3000 point limitations..

Keith

Keith Sproul

WUZZ

82. Re: [APRSSIG:298] LORAN

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Tue, 14 Mar 1995 08:44:46 -0800
To: aprssig@tapr.org
Message-ID: <199503141644.IAA14046@kilroy.jpl.nasa.gov>
Rendered body type: text/plain

Bob wrote:

>I visited the local boat store, BOAT US, and they have the Magellan
>Meridian for about \$283 but I had heard that the GARMIN 45 was being sold
>at a regular price of \$299. I would get the GARMIN UNLESS you will ever
>take it FLYING (it stops working at 90 kts)...

Why the Garmin over the Magellan? These things are getting cheap enough for me to think about getting one...

-Greg

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

83. Re: [APRSSIG:298] LORAN

From: Jack Taylor <n70o@huachuca-emh8.army.mil>
Date: Tue, 14 Mar 95 15:36:10 MST
To: aprssig@tapr.org
Message-ID: <199503142245.QAA15535@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

Uh, can anyone expand on the used LORANs for \$25 theme? I tuned across a teevee pgm the other day discussing what it takes to upgrade LORAN sets in the NE atlantic region. They didn't say but I suspect the reason for the upgrade was due to a change in master stations. Anyway, they were quoting around \$200 for an eeprom upgrade and general checkout on the bench.

The question that came to my mind was: Are LORAN sets programmed for specific regions, or can they be used anywhere?

73 de Jack

84. Re: [APRSSIG:286] Re: GPS Rec...

From: gwyn@paccomm.com (Gwyn Reedy, WIBEL)
Date: Tue, 14 Mar 95 17:41:04 UTC
To: aprssig@tapr.org
Message-ID: <1356@paccomm.com>
Rendered body type: text/plain

The PicoPacket basic unit (1200 baud TNC) is \$129.
If you want 128k RAM, the price is \$149.

To use the Pico with an external GPS, order the GPS port option, which includes 128k RAM, Real Time Clock, and 2nd serial port. About \$50 (haven't decided yet.)

The PicoPacket can be ordered with a slide-on/slide-off battery pack. This must be factory installed (different case). About \$50.

The PicoPacket may be ordered with an internal Garmin-20 GPS receiver. This includes the second serial port, more RAM, etc. This also requires the external battery pack, i.e. the GPS model requires all the other options. Price not settled, but should be around \$600. (Our TINY-2 with built-in Trimble GPS goes for \$675.)

The basic PicoPacket should be ready in a few weeks, certainly by Dayton. Whether the battery pack will be available by then is unsure. Waiting on a new cabinet extrusion...

Gwyn Reedy, WIBEL gwyn@paccomm.com WIBEL@amsat.org
+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)

85. Re: [APRSSIG:303] Re: GPS Rec...

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Tue, 14 Mar 95 18:26:12 EST
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.795223572.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

Keith Sproul	WU2Z
Student Housing Network Adminstrator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

86. Re: [APRSSIG:301] Re: LORAN

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 14 Mar 1995 19:46:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950314194601.10193A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

The GARMIN has the RMC for stand alone trackers... The Magellan does not.
It also has graphics mode....

87. Re: 100K conversions

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Tue, 14 Mar 1995 22:23:24 -0500
To: aprssig@tapr.org
Message-ID: <9503150325.AA03009@eliza>
Rendered body type: text/plain

Anyone out there have a quicky way to delimit the 100K files that are on
Internet.
The CONV100b.bas wants to see delimited files but the 100k files on Internet are
non delimited.

//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

88. Re: [APRSSIG:306] Re: 100K conversions

From: Jack Taylor <n7oo@huachuca-emh8.army.mil>
Date: Tue, 14 Mar 95 21:02:08 MST
To: aprssig@tapr.org
Message-ID: <199503150410.WAA18081@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

I haven't tried it, but the README at edcftp.cr.usgs.gov explains the
procedure to delimit the 100K files.
73 de Jack

89. Re: [APRSSIG:307] Re: 100K conversions

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Wed, 15 Mar 1995 08:12:39 -0500
To: aprssig@tapr.org
Message-ID: <9503151315.AA09000@eliza>
Rendered body type: text/plain

The readme explains it for UNIX users. I am doing this on a PC. I think I
might need the EXTRACT utility from the CDRom.

>I haven't tried it, but the README at edcftp.cr.usgs.gov explains the
>procedure to delimit the 100K files.
>73 de Jack

>
>
//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

90. Different GPS Receivers

From: paul@paccomm.com
Date: Wed, 15 Mar 95 08:27:06 UTC
To: aprssig@tapr.org
Message-ID: <1379@paccomm.com>

Rendered body type: text/plain

(The views expressed here are not necessarily those of PacComm)

Hi. I get a lot of calls every day about GPS receivers. My short conclusions are as follows:

Magellan consumer GPS: Don't touch them. I know many go back to the factory for repair and they are also flaky with crashes, etc. The battery pack on the Meridian is particularly crummy.....

The price is \$287 right now at West Marine.

Garmin: These are reliable, cheap and out-selling everything else 10:1

I have one and cannot find any fault with it. The price is now \$298 every day at E&B, West Marine, etc. Maybe some of the distance calculations are a little suspect between waypoints (I'm testing that on my Catalina 36 sailboat "Spindrift" and I'm testing it against insatlled LORAN).

The Garmin 20 OEM is under test at PacComm against the Trimble OEM.

I now have a program I wrote yesterday which will compare the output fixes between two side-by-side receivers. The results are VERY interesting!!!!!!

Ray Jefferson: Well, won't even comment about these.....

Trimble: expensive well built unit, getting massively out sold by the competition.

Finally. The OEM modules might appear expensive against consumer units but I'm convinced more and more that they give better tracking results and, of course, they integrate easily into such things as TNCs.

Regards, Paul W4/G4BKI

91. Re: [APRSSIG:291] PACCOM Handy packet

From: Emmet2@aol.com
Date: Wed, 15 Mar 1995 11:10:52 -0500
To: aprssig@tapr.org
Message-ID: <950315111047_50228256@aol.com>
Rendered body type: text/plain

<<

Need one? Two? I've got a couple with the Ver 3.2b ROM (Aug 94)...about the size of a pack of cigarettes and the support GPS mode.

EMAIL dvez@ix.netcom.com

>>

What is the 'GPS mode'? Is it only compatible with certain GPS, or any?

Additionally, what is the difference between NMEA 0180 and 0183? I was looking at Magellan GPS data sheets on the web (from work), and saw two different NMEA numbers (I think I got the numbers right).

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

92. Re: [APRSSIG:296] Re: GPS Rec...

From: Emmet2@aol.com
Date: Wed, 15 Mar 1995 11:10:57 -0500
To: aprssig@tapr.org
Message-ID: <950315111054_50228308@aol.com>
Rendered body type: text/plain

<<

Regarding sharing a COM port with the MAC. Check with KEITH SPROUL who wrote the program. The HSP (hardware single port mode) switch circuit that lets the GPS and TNC share the same COM port requires APRS to do the switching using HARDWARE handshaking lines. Unless the MACaprs ALSO has included this software code, then the HSP switch will NOT work. Lets see what Keith says....

>>

If not perhaps we can have him add it when he gets a chance. Is this 'HSP' a function of the TNC, the GPS, or the computer? Will it work with any two serial devices (provided the appropriate software is operational)?

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

93. Re: [APRSSIG:300] RE: Mapfixer.bas

From: Emmet2@aol.com
Date: Wed, 15 Mar 1995 11:10:58 -0500
To: aprssig@tapr.org
Message-ID: <950315111057_50228337@aol.com>
Rendered body type: text/plain

<<
To CREATE the high-res maps on the Macintosh, (FROM THE 1:100,000 scale CDs)
you need at least 20 meg of RAM for the program.
>>

You didn't say whether Virtual RAM would work ...

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

94. Re: [APRSSIG:292] Re: GPS Rec...

From: Emmet2@aol.com
Date: Wed, 15 Mar 1995 11:12:05 -0500
To: aprssig@tapr.org
Message-ID: <950315111051_50228282@aol.com>
Rendered body type: text/plain

<<
Check out the new Paccom Tnc. It has a built in GPS radio along with a tnc
in one unit.
>>

How much do they generally go for?

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

95. Re: [APRSSIG:310] Re: PACCOM Handy packet

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Wed, 15 Mar 1995 13:29:59 -0800
To: aprssig@tapr.org
Message-ID: <199503152129.NAA17608@ix4.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
><<
>Need one? Two? I've got a couple with the Ver 3.2b ROM (Aug
>94)...about the size of a pack of cigarettes and the support GPS mode.
>EMAIL dvelez@ix.netcom.com
>>>
>
>What is the 'GPS mode'? Is it only compatible with certain GPS, or
>any?
>

GPS mode, best I can explain, picks a particular data stream from the
GPS with a connection from the NMEA-0183 output (most popular, I know
nothing about the other standard) and serial input to the TNC. The TNC
puts it in a beacon and transmits it based on the settings of a couple
TNC commands specific to the GPS mode (ie, which data stream to use, how
often to transmit it, how often to beacon, ...etc).

>Additionally, what is the difference between NMEA 0180 and 0183? I was
>looking at Magellan GPS data sheets on the web (from work), and saw two
>different NMEA numbers (I think I got the numbers right).

Can't help you there...

>
>- Chip Griffin aka Granite
>- President of Thames River Apple Users Group
>- SysOp of The Quarry LLBBS (203-889-6427)
>= Emmet2 (America Online) = emmet2@aol.com (internet)
>= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)
>

Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

96. Re: [APRSSIG:282] Re: APRS and OS/2

From: mxdp!twade@mxdp.afsv.af.mil (Tom Wade)
Date: Wed, 15 Mar 95 17:26:06 CST
To: aprssig@tapr.org
Message-ID: <9503152326.AA03260@mxdp.afsv.af.mil>
Rendered body type: text/plain

Mike when you ctrl-home it does it say anything about aprs being suspended on the title bar?

97. Re: [APRSSIG:306] Re: 100K conversions

From: mxdp!twade@mxdp.afsv.af.mil (Tom Wade)
Date: Wed, 15 Mar 95 17:32:34 CST
To: aprssig@tapr.org
Message-ID: <9503152332.AA03266@mxdp.afsv.af.mil>
Rendered body type: text/plain

yes, a quick way is to tell me which file you want delimited and I will do it for you!

Tom

98. PacComm PicoPacket (Chip Griffin, N1MIE)

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Thu, 16 Mar 95 06:38:22 UTC
To: emmet2@aol.com
Cc: cc
Message-ID: <1415@paccomm.com>
Rendered body type: text/plain

The PicoPacket is available in several flavors:

- The standard model has 32k RAM and requires an external power source. It will operate from as low as 5-6 volts, so a 9v battery works just fine. This model has one serial port just like any other TNC and this port supports a GPS using the same firmware features as our existing TNCs.
- The standard model is available with 128k RAM for \$149. The user may install the larger RAM chip if desired and when desired.
- The standard model may be equipped with a full time second serial port for attachment to a GPS. This option board comes with a real time clock, 128k RAM, and the serial port hardware. This option will be priced about \$50.
- You may order the PicoPacket Battery Pack model. A different case back and end panels are used to accommodate a slide-on/off battery pack (like a cellular phone). This is not user installable due to the different case pieces. The battery pack model may also support the GPS port option if desired. Expected price on the battery pack model is \$179 (tentative).
- You may order a PicoPacket with a Garmin-20 GPS built into the same case. This is a special version of the battery pack model so the battery pack, clock, 128k RAM, second serial port, etc. are all included. The serial port is hardwired to the GPS, of course. Expected price on this is about \$600-650.

With the internal GPS or the second serial port option, firmware commands will allow the attached PC to talk 'through' the TNC to the GPS to give setup instructions and to read GPS output directly. This will eliminate the need for any hardware devices to fit a TNC and GPS onto the single serial port of a laptop computer. It will also eliminate any hardware dependence on the control lines of the computer serial port which should simplify interfacing to a variety of portables, including Macintoshes.

Availability? The standard model is likely to be in full production early in April, certainly by Dayton. The second serial port option, battery pack model, etc. may or may not be available by Dayton. We're moving as fast as we can, consistent with upholding quality.

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org

+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)

99. Re: [APRSSIG:315] Re: APRS and OS/2

From: mwalker@interlog.com
Date: Thu, 16 Mar 95 07:53:33
To: aprssig@tapr.org
Message-ID: <9503161556.AA0029@mwalker.interlog.com>
Rendered body type: text/plain

I tried it again last night (in a hurray) and the display shimmered and the system hung (I have an intermittent hardware problem that I haven't found yet).

But, the last time I tried it the screen resized normally and I also had KAGOLD running in another window. I might have had EGA mode for APRS turned on (F7). I am using a default DOS setting, APRS V6.6 (it might have been 6.4 when I last tried it), and SIO on the com ports.

I'll look more closely at it over the weekend.
regards...mike

//-----
// Michael Walker
// mwalker@interlog.com
// (905) 891-6328

100. APRS/Standalone WX stations

From: N9VJQ@aol.com
Date: Thu, 16 Mar 1995 18:07:30 -0500
To: aprssig@tapr.org
Message-ID: <950316180728_51722712@aol.com>
Rendered body type: text/plain

Can somebody tell me what we need out here (in No IL) to put up an unmanned, remote WX reporting station. Primarily we need info on TNC's that will take U-II data and beacon it out without computers. We sold the NWS/Romeoville (Chicago) and Multi-County Severe Storm Warning System people on APRS as an excellent SKYWARN asset. And we strongly hinted that an unmanned WX site could be bought cheap. Now they want figures. HELP!

101. Re: [APRSSIG:273] APRS and OS/2

From: schiers@ibm.net
Date: Tue, 14 Mar 95 06:10:10 +0000
To: aprssig@tapr.org
Message-ID: <9503170210.AA0182@slip5-153.fl.us.ibm.net>
Rendered body type: text/plain

>Has anyone had any luck getting APRS to run in a window on the OS/2 desktop. Mine works fine full screen but when I try to run it as a window I get the message that "the video mode is not supported."

You may get it to run if you are set to no more than 640x480x16 colors on the desktop. One other thing you should be aware of, even if you can get it to run in a full screen session, chances are, it stops running when you put it in the background. I played with it for months using both 2.11 and Warp with no ultimate resolution and was told by IBM Tech Support that it won't work unless the application video support (APRS) was better behaved.

In general, DOS graphics programs will not run in an OS/2 dos window unless you set your desktop to 640x480x16, and even then it is iffy.

This discussion went on for months on the os2dos echo of fidonet and the conclusion presented here is the result. I now run APRS on a dedicated 16 Mhz AT.

hasan al-basri
CIS: 74245,1652
Packet n0an@n0an.ia.usa.noam

102. APRS in Australia

From: DDOBBINS@aol.com
Date: Fri, 17 Mar 1995 05:13:23 -0500
To: aprssig@tapr.org
Message-ID: <950317051317_52262541@aol.com>
Rendered body type: text/plain

3-6: Hi Bob, just finished meeting with Patrick VK4TAB, and James VK4TOY, of Brisbane. Previewed APRS with them, and they seemed very excited. They will share the disks and work on an APRS net on 144.85. Freq is shared w/a BBS, but load in minimal so it should support an active APRS net. Good local area coverage as well. They should be in contact with you shortly, hopefully to validate their call signs. They had not previously heard of APRS, but think there is great use for it here down under. I saw the local distributor's ad for the Ultimeter II wx station, and they mention APRS. I was going to suggest they build that as a marketing tool, but looks like somebody beat me to it. BTW, local guys here wondering how hard it would be to have a European version with kilometers vs statute miles, etc. Will be back in San Diego in April/May. Should get a chance to check up on their APRS efforts. I'm curious how many recent validation requests you've received, besides KI6MP. Can your val. db search on San Diego area, and let me know just call signs. I gave out about 15-20 disks there with all the CA maps that W7KKE has done. Also helped KI6MP set up HF-VHF gate, and we watched Ken driving home one afternoon. All for this msg, hope to hear back from you via email. This is much better way for me to keep in touch. Beats packet bbs (unfortunately). Also, many packet BBSs in AUS are pw protected, so I couldn't even logon. I think we'll see a decrease in packet BBS activity as email and internet catch on. One more request. I've ordered the Ultimeter II WX station, and would like a WX station validation number. I'll get the check for \$14 off to you. Would you please send the number to my email address. Thanks.

3-17: Back in Brisbane, and talked with my wife, Diana, last night. She told me you had called. I'll call you when I get back, or you can reply here via email. Regards, Dave.

103. more update

From: DDOBBINS@aol.com
Date: Fri, 17 Mar 1995 08:11:36 -0500
To: aprssig@tapr.org
Message-ID: <950317081134_52312349@aol.com>
Rendered body type: text/plain

pkt msg coming to you. misc data. local hams here in brisbane dl aprs 6.6 and working on area maps. Patrick, VK4TAB, has Kurta digitizer and has modified code in MAPRFIX.bas to work well with the digitizer. Lost thought process on other msg I wanted to pass. Val fee for WX station on its way. Playing with TCP/IP mode on packet now from Brisbane, hooked into Reno NV. If I remember why I needed to pass this msg, I'll log back on. Perhaps one too many XXXX. Gday mate. Dave.

104. [APRSSIG:319] APRS/Standalone WX stations

From: <ROBERTST@BENNING-EMH1.ARMY.MIL>
Date: Fri, 17 Mar 95 08:25:00 EST
To: <aprssig@tapr.org>
Message-ID: <199503171328.HAA11897@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

We are using the Paccomm Tiny-2 MK-2 TNC with the Ultimeter weather station here. Everything works just fine. The Ultimeter sells for around \$179 and the Tiny-2 for around \$129. The only problem we're having is getting the rain gauge (\$\$ option) data transmitted by the stand alone weather station to be properly decoded by APRS. Temp, wind speed, and direction all work fine. I know that Paccomm has a new TNC coming out that supports the Ultimeter and I believe that the KAM KPC-3 also supports it.

73,
Tom
NL7ZL

105. [APRSSIG:320] Re: APRS and OS/2

From: <ROBERTST@BENNING-EMH1.ARMY.MIL>
Date: Fri, 17 Mar 95 08:33:04 EST
To: <aprssig@tapr.org>
Message-ID: <199503171337.HAA11912@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

<<You may get it to run if you are set to no more than 640x480x16 <<

As was mentioned earlier you can get it to run in a window if you set the video mode to CGA. I tried this and it does work fine although you only get black and white. Someone else posted a message saying that they were running APRS in a window in color without the program being suspended. He is going to reconfirm this and let us know. By the way I posted the original message.

73,

106. Chicago area update & APRS freq in NC and MO

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Fri, 17 Mar 1995 07:42:47 -0600
To: aprssig@tapr.org
Message-ID: <199503171342.HAA19846@home.interaccess.com>
Rendered body type: text/plain

Hi Bob , Keith and all,

Greetings from the Chicago Metro area.

We now have 10-15 stations active on a regular basis in the area with a bunch more dropping in on the weekends. I've got a dedicated digi up in downtown Chicago running 25 W at 600 ft agl using a 10 db gain beam pointed west and it seems to be working out well. If ur in the metro area set your path to relay, wide and we should see you.

It seems that Dan, N9XHP, Dave, KA9NHL and I are presenting APRS on a weekly basis to someone, we have hit most of the major Radio Clubs in area and are fast becoming a feature at local hamfests. Both the local CAP and now the USCG aux are watching with interest and have in fact started buying equipment and getting members to become hams. This spinoff from program is something we haven't thought much about but with the dedicated, knowledgeable people we have seen enter the hobby this way it may be a great way to increase our numbers.

By the way Bob, in the map help files on APRS you have my name and Dave's, KA9NHL, call listed as IL map co-ord. It looks like we have found an Illinois map maker and hopefully we will have some new maps soon.

We have sent off copies of program to the Greenville NC area but the fellow can't find any activity, anyone know if the one on air yet and if so what freq?

I'll be traveling to Lake of the Ozarks for the week of 6-13 April and will be beaconing on 145.79. Route will be via Springfield IL, St. Louis, Jefferson City MO to Lake Ozark Beach. What freq are you guys in MO using?

All for now CUL
73
Ed N9LCI

107. Beeping

From: Jess Girard <girard@panix.com>
Date: Fri, 17 Mar 1995 10:36:11 -0500 (EST)
To: APRS Sig <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950317103214.2320A-100000@panix.com>
Rendered body type: text/plain

Hi All:

I run the Bob's APRS for PC version 6.6. I leave my APRS station running while I'm at work, but my xyl complains that the constant beeping is annoying her. She keeps wondering if an alarm is going off or if some piece of equipment is frying.

I used the alt-S - Other - B commands to turn off beeping, but it persists in some cases anyway.

Any way to completely mute the program? (Other than disconnecting the speaker or adding an outboard speaker-line switch).

Jess
nd11

108. ULTIMETER-II and remote wx sites

From: paul@paccomm.com
Date: Fri, 17 Mar 95 11:02:48 UTC
To: aprssig@tapr.org
Message-ID: <1509@paccomm.com>
Rendered body type: text/plain

Hi. Several people have been asking about this on the SIG. Due to problems at this end resolving addresses, I failed to respond to them individually so have had to resort to using the WHOLE SIG. Please don't take this as an advert! I have written an application note on using the ULTIMETER-II with our TNCs, including wiring details and EXACTLY what to do in setting up BTEXT, GPS functions

(YES they ARE used to do this!), etc. If you need further info please call PacComm and ask for me and I will fax or send you (with a catalog) the application note. Please indicate that you heard about it from the APRSSIG. Tnx.

Paul Evans, W4/G4BKI paul@paccomm.com
+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)
The views expressed in this message are not necessarily those of PacComm.
"I say, Ratty, just because we're staring adversity in the face,
there's no need to forget the rules of grammar"
- Mole, "The Wind in the Willows"
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

109. Re: [APRSSIG:319] APRS/Standalone WX stations

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 17 Mar 1995 19:03:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950317190142.12938A@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

TO put up a remote WX station, simply get an ULTIMETER-II \$179
a PACCOM TINY-2 TNC \$149, an MFJ data radio \$119 and various power
supplies and antennas....

110. Re: [APRSSIG:327] ULTIMETER-II and remote wx sites

From: JKANDEL@umiami.ir.miami.edu
Date: Fri, 17 Mar 1995 19:05:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01H094K48LPM9VURF0@umiami.ir.miami.edu>
Rendered body type: text/plain

Paul,
You're a man after my own heart. When the going gets tough, quote "Wind in the Willows."
As a matter of fact...now that I think of it...with that sailboat..while it's not a gypsy wagon...you don;t live in Toad Hall by any chance?

73,
Joel, KI4T

111. Re: [APRSSIG:323] APRS/Standalone WX stations

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 17 Mar 1995 19:13:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950317190933.12938D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

The problem with a remote U-II RAIN GAUGE is that the U-II only reports the current value of a continuously running rain counter. The rain value is useless unless you know what it was an hour ago, a day ago or a week ago, etc.,, APRS automatically subtracts off the previous value for a rain gauge connected to a U-II connected locally. But for these remote WX indicators everyone will have a different count.

Therefore, I didnt even include the remote WX RAIN data from a standalone U-II rain gauge. I have since modified the code in 6.7 (not yet released) that will report the rain from a remote U-II as just the RAW count with a lower case /rxxxx vice the /Rxx for the rain per hour...

112. Re: [APRSSIG:326] Beeping

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 17 Mar 1995 19:17:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950317191512.12938E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Alt-S-OTHER-BEEPS off turns off all automatic beeps. It does NOT turn off beeps which are at user prompts. If you are sleeping, then you are not typing...right?
but it CANNOT turn off ctrl-g's imbedded in packets. And lots of egos out there, cannot help but punctuate their packet messages with beeps!

If there are any automatic BEEPS still in APRS, lemme know...
/ex

113. APRS version 6.7 pre announcement

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 17 Mar 1995 19:25:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950317191905.12938F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Just to finish out the week, I thought I would share the latest excitement.

First, the good news... I reduced the size of the program by 20K

The BAD news: I filled it back up by adding 3D display!!!

The 3D display projects the MAP onto the bottom 1/6th of the screen with the horizon about 1/3 up. This makes all aircraft rise above the map and show altitude. All cursor and zoom functions still function!

This is a 3D display of station/object altitude... It DOES NOT produce 3D Terrain data.

Version 6.7 should be available some time toward the end of March...

114. MAPFIXER from 6.6

From: stewart@kepler.IFA.Hawaii.Edu (Christopher Stewart)
Date: Fri, 17 Mar 95 14:55:11 HST
To: aprssig@tapr.org
Message-ID: <9503180055.AA06483@kepler.ifa.hawaii.edu>
Rendered body type: text/plain

Well, after many many frustrating hours on trying to get a map made with this program (Remember, I have not seen this work ever so is all new to me) I finally figured out what the problem is. The MAPFIXER program itself from version 6.6 has bugs. When I do the exact same thing with version 6.2 of MAPFIX it works fine. Talk about being bummed. All that time wasted when I could have used an older version that works. Hope this helps somebody. Now that I actually have a map, am now impressed with the possibilities. Chris/ah6gg

115. Re: [APRSSIG:333] MAPFIXER from 6.6

From: James A Warakois <warakois@world.std.com>
Date: Fri, 17 Mar 1995 22:05:58 +0001 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9503172259.B7882-0100000@world.std.com>
Rendered body type: text/plain

I believe that the mapfixer has been fixed..on the latest version. I wonder if anyone is using a compiled version of mapfixer? Ive been quite successful compiling the mapfixer.bas and using the mapfixer.exe for my map conversions...works slick.

another problem however..living in Boston (the land of curving streets) I have found that conv100b. only goes to 5000 lines of data..thus I am losing streets from the 1:100,000 cdrom data...Does anyone have any experience or is it even possible to increase the number of lines processed.??...Anxious to know...Jim W1KRU (I started with version 1.08)

116. Re: [APRSSIG:309] Different GPS Receivers

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Fri, 17 Mar 1995 23:30:43 -0500 (EST)
To: paul@paccomm.com
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9503172326.A15326-b100000@acme>
Rendered body type: text/plain

Hello Paul - Here's another GPS unit to wonder about - I'm using the Eagle AccuNav Sport. It has a Rockwell engine in it, and sold for \$498 just before Christmas. - Eagle/Lorwance is well know for their fish/depth locators, and designed this unit for marine applications. I chose it, not because of the cost of the basic unit, but because of the cost of the accessories. The add on's were 1/4 that of others (External Ants, mounting brackets etc) and it is capable of UL/DL waypoint info from a PC.

I am pretty sure that it uses the NavCore V engine - with quick Time to First Fix. It's a 5 channel receiver with all in view. The only major drawback is that it uses a passive ant, which could be a bear in the urban areas. The only problem I've had has been that the ant is a bear to take off and put on.

Now then for my question, have you had a chance to look at any Receivers that use the Rockwell receivers, and if so, how do they stack up? (I know - grumble grumble grumble, another critic heard from...).

BTW - Thanks to all you nice folks at PacComm for the support you've

given us APRS'ers.

! WILL DO MAPS FOR GPS UNITS !

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249

Packet address KB8JX0@W8CQK.#CMH.OH.USA

The 137th most knowledgeable person about A.P.R.S.

117. Re: [APRSSIG:332] APRS version 6.7 pre announcement

From: John Baum <jbaum@freenet.columbus.oh.us>

Date: Fri, 17 Mar 1995 23:48:36 -0500 (EST)

To: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>

Cc: aprssig@tapr.org

Message-ID: <Pine.3.07.9503172333.A19929-a100000@acme>

Rendered body type: text/plain

On Fri, 17 Mar 1995, Robert Bruninga wrote:

> The BAD news: I filled it back up by adding 3D display!!!

>

> This is a 3D display of station/object altitude... It DOES NOT produce

> 3D Terrain data.

>

Thank gawd it doesn't produce 3D Terrain data. - Some of us map makers have a hard enuf time drawing in 2D. (Sometimes my wife accused me of being in the 4th D when I'm heavy into mapping, but that's another story).

Coming at the end of March - MIMAPS01.zip - aka - the lower 1/3 of that state North of Ohio from Lake Mi to Lake Erie & Lake St Clair - Including Detroit.

! WILL DO MAPS FOR GPS UNITS !

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249

Packet address KB8JX0@W8CQK.#CMH.OH.USA

The 137th most knowledgeable person about A.P.R.S.

118. Re: [APRSSIG:326] Beeping

From: jgarrett@world.std.com (John Garrett)

Date: Sat, 18 Mar 1995 02:02:49 -0500

To: aprssig@tapr.org

Message-ID: <PMeQlmpA4YbS065yn@World.std.com>

Rendered body type: text/plain

" Hi All:

"

" I run the Bob's APRS for PC version 6.6. I leave my APRS station running while I'm at work, but my xyl complains that the constant beeping is annoying her. She keeps wondering if an alarm is going off or if some piece of equipment is frying.

"

" I used the alt-S - Other - B commands to turn off beeping, but it persists in some cases anyway.

"

" Any way to completely mute the program? (Other than disconnecting the speaker or adding an outboard speaker-line switch).

"

" Jess

" ndll

"

We share a freq with 1 bbs and some tcp/ip-like stuff, which occasionally goes off like a pinball machine. I don't remember specifically if one can shut off all the aprs alarms/bells, however. You might look at other users of the freq, and see if they're sending lots of ^Gs or simialr noisemakers.

John

WN9T

119. Question Concerning SKYWARN ops

From: "Ruston S. Baum" <rsb@crl.com>

Date: Sat, 18 Mar 1995 11:28:23 -0800 (PST)

To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.950318112055.8015B-100000@crl8.crl.com>

Rendered body type: text/plain

I am revising some packet software used at our NWS office here in St. Louis. Was wondering if anyone has experience using APRS during SKYWARN operations. Is it easy for new-comers to get up to speed using APRS? Presently we are using ARESPACK 3.0 as one of our incoming message systems. We love to hear any thoughts or comments.

Thanks very much.....

Rusty Baum
St. Charles, Mo.
WB0QJB@K0PFX.#STL.MO

120. Re: HST Files

From: pbcarlin@ix.netcom.com (Paul Carlin)
Date: Sat, 18 Mar 1995 14:07:01 -0800
To: aprssig@tapr.org
Message-ID: <199503182207.0AA25889@ix2.ix.netcom.com>
Rendered body type: text/plain

Hi there i was wondering durring our upcomming barstow to vegas maraton how often should we save to keep the entire race in hst files that we can combine to make one big hst files...or do we need to save it as it says its save after 200 hits??? thanks for the response paul
ps Will send you a hst file of the race...

121. Re: [APRSSIG:331] Re: Beeping

From: Jess Girard <girard@panix.com>
Date: Sat, 18 Mar 1995 21:57:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950318215456.15660A-100000@panix.com>
Rendered body type: text/plain

I dunno, Bob. I'm typing this in one room with v.6.6 running in another. The beeps keep coming as I type. I'll try to figure out whether they're embedded in beacon strings or whether the program is creating them. It's kind of hard to tell (for me, anyway, maybe I'm still too new at it...)

73
Jess

122. Re: [APRSSIG:337] Re: Beeping

From: Jess Girard <girard@panix.com>
Date: Sat, 18 Mar 1995 22:01:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950318215933.15660C-100000@panix.com>
Rendered body type: text/plain

Hi John:

There isn't much on .79 around here except for APRS users. I'm hearing too many beeps (right this minute, in fact) to believe that they're coming from other than APRS stations. Maybe they are embedded ctrl-g's as Bob suggested. I'll keep trying to figure it out.

73
Jess

123. [APRSSIG:338] Question Concerning SKYWAR

From: "Young, Gregory" <GYoung@ubmede.buffalo.edu>
Date: Sun, 19 Mar 95 00:49:00 PST
To: aprssig@tapr.org
Message-ID: <2F6BF0A3@ubmed.buffalo.edu>
Rendered body type: text/plain

Hi Rusty:

Getting APRS up and running, using Ultimeter II(s), has beeneasy to get going here in WNY.

When I started with VHF APRS,there was one Canadian and myself on frequency. APRS has caught on since!

You can talk to Judy Levin, N2TEZ, who's our head NWS contact here in Buffalo, NY.

They have justed started the move into a new facility, which will have 3 VHF units, one of which is dedicated to APRS...

The automated weather data is sure a nice supplement to the voice Skywarn system!

73, Greg

124. Re: [APRSSIG:324] Re: APRS and OS/2

From: schiers@ibm.net
Date: Sat, 18 Mar 95 08:11:03 +0000
To: aprssig@tapr.org
Message-ID: <9503191447.AA0030@slip6-219.fl.us.ibm.net>
Rendered body type: text/plain

> Someone else posted a message saying
that they were running APRS in a window in color without the
program being suspended. He is going to reconfirm this and let us
know. By the way I posted the original message.

Hi Tom...yes I have been thought the wars with this one and any other graphics
program (dos) under os/2 since version 2.10 and through warp fullpak. There
have been isolated (very) reports of being able to run in more than 16 colors
in a window, but they have been few and far between and not reproducible
<bummer>. A larger number of people have been able to get aprs to run in 16
colors in a window at 640x480, but not everyone. I think your solution is the
first one I have seen that claims to work nearly all the time. I assume you
are going into your dos settings for the app and setting cga only?

I now run aprs on a dedicated 16mhz AT, so it is more of technical interest to
me than anything else. Let me know how things turn out. I am a very big fan
of OS/2, in fact I just upgraded my best machine to an AMD DX2/100 and with 16M
of ram and a VL-Bus video card it screams.
73,

hasan al-basri
CIS: 74245,1652
Packet n0an@n0an.ia.usa.noam

125. Re: [APRSSIG:341] Re: Beeping

From: Jess Girard <girard@panix.com>
Date: Sun, 19 Mar 1995 08:16:34 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950319080838.9683A-100000@panix.com>
Rendered body type: text/plain

On Sat, 18 Mar 1995, I wrote:

> There isn't much on .79 around here except for APRS users. I'm hearing
> too many beeps (right this minute, in fact) to believe that they're
> coming from other than APRS stations. Maybe they are embedded ctrl-g's as
> Bob suggested. I'll keep trying to figure it out.

I made a logic error by neglecting to use the word "not" after "they're" in
the 2nd sentence above. Sorry. I meant that the beeps are indeed coming
from APRS stations.

Listening again this morning I found many, many frames coming from APRS
stations that cause my system to beep even though "beeps" is turned off. I
began compiling a list of stations but then found that sometimes they
beeped and other times they were silent. It's hard to believe that the
same APRS position string could have a ctrl-g embedded sometimes and other
times not. How do you save incoming frames to a file? That way I can use
an editor to look for ctrl-g's.

Meanwhile I think I'll just put an on/off switch in the speaker line.

Jess

126. APRS maps from CDROMs

From: N9VJQ@aol.com
Date: Sun, 19 Mar 1995 12:32:04 -0500
To: aprssig@tapr.org
Message-ID: <950319123202_54152251@aol.com>
Rendered body type: text/plain

Hi,

I'm trying to make maps from USGS 2000000:1 CDROM.

Please tell me what I'm doing wrong:

Brought up the map i'm interested in.

Got the center of interest (lat/long), ppp (900), and L/L of the map's
origin.

Backed out of MAPFIXER and then came back in; loaded NEW

Put origin of other map (45,26 Lat, 92,76 Long in Deg,Min)

Put PPD of 900

Got blank map with origin where I wanted it, range what I specified.

Went to center of interest (41.9088 Lat/ 88.7529 Long)

Hit ALT-U; Entered origin, type of USGS map (RD), entered with 100% extent

L/L (I really dont know what that means, and can't find it in the CDRom readme).

Then it asks me for the exact path for the program to find the "S??" file. I typed it all in and hit enter, and nothing happens.

Now when I got the USGS 2,000,000:1 CDRom, I went to "Xtract", chose "Optional", and got files called "S06_RD.LG0", for roads. However, when I try to get MAPFIXER to take the CDRom map again, when I get to the part to input the RD, or whatever type it is, it puts a ".GRF" extension on the file.

Also, I've got a borrowed SummaSketch II w/16 button cursor which I can't get to work with MAPFIXER as a digitizer, or APRS as a mouse. On MAPFIXER, it gives me a "buffer overflow" message. The closest I can get it to the "XXXX,YYYY,Apn" is an ASCII "XXXX.xx, YYYY.yy,AA,B".

HELP!!!

Thanks

Barry Leonard N9VJQ

815-756-5159

n9vjq@aol.com

127. APRS 6.6, & TXBEXAR map

From: lgenco@crl.com (Lou Genco)

Date: Sun, 19 Mar 1995 11:34:02 -0600

To: aprssig@tapr.org

Message-ID: <Ai6RlWpGkH0B075yn@crl.com>

Rendered body type: text/plain

Bob -

Good to see you on Internet, lots easier to send email than to write snailmail notes.

I Just upgraded to APRS 6.6, and noted what might be a problem or two:

1) When viewing the Positions or Latest Beacons screens, one or more of the lines seems to jump up and overwrite a previous entry. Almost as if the line contained ANSI char sequences to move up a line. This messes up the sequence when trying to Hook a station from the text page (the hooked station is different than that shown by the little circular cursor).

2) For a short while after loading APRS, the map display disappears at irregular intervals. The info box at the top right returns, but the map stays blanked until <spacebar> or <1> is bashed.

In the recent MAPLIST.USA, you asked who had TXBEXAR.MAP. I guess I am guilty of making that one. It was my first attempt at crunching some data I received from USGS. It is only about 1400 lines long, so I can send it to you by email if you wish (or does tapr.org have an inbound FTP area?). Alternately, I can put it on -my- www / ftp site, and let you download it at your leisure.

Finally, since you are now on Internet, a small plug for one of my Internet contributions. If you are interested in nostalgic radio programs, and would like a FAQ (list of frequently asked questions and answers) with info on what Internet has to offer for this hobby, there is a FTP-by-mail server that will automagically send you a copy of the latest OTR FAQ. To receive a FAQ, send email in -exactly- this format (the case of the file name IS important):

To: lgenco@crl.com

Subject: Request otr.faq

(the body of the message is ignored)

Lou

Internet: lgenco@crl.com

Lou.Genco@LChance.sat.tx.us

128. Re: [APRSSIG:344] Re: Beeping

From: Kent Larson <klarson@access.digex.net>
Date: Sun, 19 Mar 1995 18:33:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950319183141.12636A-100000@access4.digex.net>
Rendered body type: text/plain

Jess,

If someone has a ctrl-g in their beacon but not their location text then maybe this would explain why the same station beeps sometimes and not beep other times.

Just a thought.

Kent

On Sun, 19 Mar 1995, Jess Girard wrote:

> On Sat, 18 Mar 1995, I wrote:
>
> > There isn't much on .79 around here except for APRS users. I'm hearing
> > too many beeps (right this minute, in fact) to believe that they're
> > coming from other than APRS stations. Maybe they are embedded ctrl-g's as
> > Bob suggested. I'll keep trying to figure it out.
>
> I made a logic error by neglecting to use the word "not" after "they're" in
> the 2nd sentence above. Sorry. I meant that the beeps are indeed coming
> from APRS stations.
>
> Listening again this morning I found many, many frames coming from APRS
> stations that cause my system to beep even though "beeps" is turned off. I
> began compiling a list of stations but then found that sometimes they
> beeped and other times they were silent. It's hard to believe that the
> same APRS position string could have a ctrl-g embedded sometimes and other
> times not. How do you save incoming frames to a file? That way I can use
> an editor to look for ctrl-g's.
>
> Meanwhile I think I'll just put an on/off switch in the speaker line.
>
> Jess
>
>
>

129. Re: [APRSSIG:347] Re: Beeping

From: Jess Girard <girard@panix.com>
Date: Sun, 19 Mar 1995 21:34:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950319213039.27259A-100000@panix.com>
Rendered body type: text/plain

Hi Kent:

The very same string sometimes beeps, sometimes not. I was trying to correlate beeping to digipeating by WIDE which of course is not a single station. It may be I'm actually seeing such a correlation, but again without a way to save these observed strings to disk I can't say what I'm looking at. If I can save them to disk I'll be able to examine the actual hex digits for received characters. Maybe I'll just use procomm+ and save to a file whatever I receive for 20 minutes and go hunting for ctrl-g's... if I find any.

73
Jess

130. APRS 6.6

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Sun, 19 Mar 1995 19:51:09 -0800
To: aprssig@tapr.org
Message-ID: <199503200351.TAA00544@ix4.ix.netcom.com>
Rendered body type: text/plain

Version 6.6 doesn't seem to bring me automatically into the terminal mode (we call it The Blue Room) when someone connects. Bug? Anyone?

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

131. now i remember

From: DDOBBINS@aol.com
Date: Mon, 20 Mar 1995 05:00:44 -0500
To: aprssig@tapr.org
Message-ID: <950320050041_54856585@aol.com>
Rendered body type: text/plain

Hi Bob, boys and I were all over the world last night on TCP/IP radio connect to interlink, incl good connect into Moscow, Germany and Nevada. Wow. Tried HI no luck, nor with KA6EYH in SFO. Anyhow, I've remembered what other word I wanted to pass to you. The TX maps of Lajita and Gdflw are unused maps. Would you please delete them from MAPLIST.APR. I don't think either of the maps are in the MAPS directory. Also pls change all ref from KB5UBW to WH6YC. Really enjoying visit with VK4TAB/VK4TOY. TAB and I will be APRS/GPS mobile in a couple days, to do local map. He's already come up with a good area map of SE Queensland, using a Kurta graphics tablet. More later. Looks like I'm flying back to HI on Wednesday 23rd. Regards, Dave.

132. Re: [APRSSIG:348] Re: Beeping

From: Kent Larson <klarson@access.digex.net>
Date: Mon, 20 Mar 1995 07:46:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950320074534.9320A-100000@access3.digex.net>
Rendered body type: text/plain

Jess,

The ProComm idea is good. I have APRS running 24 hours a day and never have a problem with beeps - thank you Bob.

On Sun, 19 Mar 1995, Jess Girard wrote:

> Hi Kent:
>
> The very same string sometimes beeps, sometimes not. I was trying to
> correlate beeping to digipeating by WIDE which of course is not a single
> station. It may be I'm actually seeing such a correlation, but again
> without a way to save these observed strings to disk I can't say what I'm
> looking at. If I can save them to disk I'll be able to examine the actual
> hex digits for received characters. Maybe I'll just use procomm+ and save
> to a file whatever I receive for 20 minutes and go hunting for
> ctrl-g's... if I find any.
>
> 73
> Jess
>
>

133. Re: [APRSSIG:343] Re: APRS and OS/2

From: "Mike Walker" <mike@va3mw.uucp>
Date: Mon, 20 Mar 1995 07:29:36 -0500
To: aprssig@tapr.org
Message-ID: <2f6d7534.va3mw@va3mw.uucp>
Rendered body type: text/plain

On Sun, 19 Mar 1995 06:56:34 -0600, schiers@ibm.net wrote:

> > Someone else posted a message saying
> that they were running APRS in a window in color without the
> program being suspended. He is going to reconfirm this and let us
> know. By the way I posted the original message.
>
> Hi Tom...yes I have been thought the wars with this one and any other graphics
> program (dos) under os/2 since version 2.10 and through warp fullpak. There
> have been isolated (very) reports of being able to run in more than 16 colors
> in a window, but they have been few and far between and not reproducible
> <bummer>. A larger number of people have been able to get aprs to run in 16
> colors in a window at 640x480, but not everyone. I think your solution is the
> first one I have seen that claims to work nearly all the time. I assume you
> are going into your dos settings for the app and setting cga only?

>
> I now run aprs on a dedicated 16mhz AT, so it is more of technical interest to
> me than anything else. Let me know how things turn out. I am a very big fan
> of OS/2, in fact I just upgraded my best machine to an AMD DX2/100 and with 16M
> of ram and a VL-Bus video card it screams.
> 73,
>
> hasan al-basri
> CIS: 74245,1652
> Packet n0an@n0an.ia.usa.noam

I can successfully run APRS in a PM window. The solution is I run in 16 colour mode. The reason I run in 16 colour mode is I am using an ATI Wonder 28800 chipset and OS/2 wont run in SVGA mode with that display and when you have more than 2 com ports (I have 4 full time ports).

As I result, I have APAR PJ16459 opened and I am waiting for a PTF from IBM (I suspect it is going to be faster to buy a new SVGA card). You may have the problem if you are running SVGA.

I hope this helps...mike

--

```
+++++
Mike Walker                               127 High St West
mwalker@interlog.com                     Mississauga, ON
(905) 891-6328                           L5H 1K4 Canada
Ham Radio: va3mw@va3bbs
```

134. VHF APRS Activity In Southern California

From: BERGER%SC.EDW@mhs.elan.af.mil
Date: 20 Mar 95 09:01:00 PST
To: aprssig@tapr.org
Message-ID: <372B6D2F0149BFD1@-SMF->
Rendered body type: text/plain

Form: Memo
Text: (18 lines follow)
Hi All,

I've been experimenting with APRS along with some friends here in the High Desert of Southern California. So far I have only seen APRS traffic outside of our group one time on 145.010. I've been scanning the packet frequencies but I haven't come across any other systems. Is there a particular frequency for APRS activity in Southern or Central California? I'm located in Tehachapi at an elevation of 4000 feet so I have pretty good coverage into the High Desert area to the East and well into Central California to the North and West. I've tried the VHF APRS net frequency mentioned in the documentation (145.950 if I remember correctly) and I have heard some distant traffic on occasion but it was too weak for my TNC to lock onto.

Any assistance would be appreciated.

Bruce
KD6GCO
Use Proportional Font: true
Attachment Count: 0
Encatts: *beyond*|*beyond*|305|0|795718914|
[Attachment: *BEYOND*; text/plain; 305 bytes]

135. Re: [APRSSIG:335] Re: Different GPS Receivers

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 20 Mar 1995 19:02:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950320190015.27291B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Regarding the question about ROCKWELL engines... The only ones I have seen all have a massively parallel interface. To convert the data to serial NMEA requires someone elses processor... I am talking about their basic OEM module. Not about any particular GPS product. If they are now providing a basic GPS card with NMEA output, I d love to hear about it...
/ex

136. Re: [APRSSIG:339] Re: HST Files

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 20 Mar 1995 19:13:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950320190502.27291C@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 18 Mar 1995, Paul Carlin wrote:

> Hi there i was wondering durring our upcomming barstow to vegas maraton
> how often should we save to keep the entire race in hst files that we
> can combine to make one big hst files...or do we need to save it as it
> says its save after 200 hits??? thanks for the response paul
> ps Will send you a hst file of the race...
>
>

ANSWER: APRS will automatically save everything. The only time you have to manually save is RIGHT BEFORE A CRASH!

Your problem is guessing when someone is going to trip over your power cord or blow a fuse...

If you have a few APRS stations on the frequency, all running, and all saving automatically, then even if one station goes down, the others will still be saving.

I would suggest that if someone goes down accidentally, and he wants to simplify the after-action re-construction, that he radio someone else to do a FILES-SAVE and to jot down the DATE/TIME of the track history file saved. Then when he is back up and running, ask the other station to do a SECOND FILE-SAVE and again record the DATE/TIME of the track history file. THEN, after the event, all the original station needs are those two files. The first will have most of what he lost, and the second will have all that he missed until he came back up...

REMEMBER when combining files, that APRS saves the entire P-LIST at the start of each track history file, and then ADDS all subsequent new position reports. You can either leave these DUPES in the files when you combine them (so that long replays also restore the positions of all the fixed stations) or delete them after the first, to save space...

gud luck

137. Re: [APRSSIG:345] APRS maps from CDROMs

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 20 Mar 1995 19:31:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950320192816.27291I-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Your problem with the 2,000,000 maps is trivial (I HOPE): DO NOT SELECT OPTIONAL FORMAT.... SELECT GRAPHICS FORMAT. MAPFIXER is looking for .GRF files. I hope that my DOCS dont say OPTIONAL!!!!

Maybe you got confused, because the CONV100 program REQUIRES OPTIONAL format which it then CONVERTS to .GRF format. We wouldnt even need CONV100 if the USGS would output the 100,000 maps in .GRF format.

I would guess that that digitizer format should work. BE SURE IT IS IN POINT MODE. in other words, it DOES NOT OUTPUT CONTINUOUSLY, but ONLY outputs a single line of data when you CLICK the 0 button

138. Re: [APRSSIG:346] APRS 6.6, & TXBEXAR map

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 20 Mar 1995 19:35:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950320193257.27291J-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Regarding the overwriting of lines and cleard maps that a TEXAS station reported, that happens quite frequently when monitoring a packet channel that has BBS, NETROM or other packets. A single embedded FF or any other messy control characters will do what they are designed to do... APRS is monitoring the channel. If a monitored packet has a glitch in it, then that will GLITCH your screen. I suggest using BUDLIST to reject NODES and BBS's.

139. Re: [APRSSIG:349] APRS 6.6

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 20 Mar 1995 19:39:47 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950320193854.27291M@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I notice that the BLUE SCREEN does NOT always come up when someone connects also. I tried to find the problem, but so-far, have not spent much time on it...

Its not fixed in 6.7 then either....

140. Re: [APRSSIG:348] Re: Beeping

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 20 Mar 1995 19:38:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950320193651.27291L-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Concerning saving all new packets to disk... (for the guys trying to find the beeps)....

APRS saves a chronological file of ALL new BEACONS in the LOG directory...

Use that to search for old beacons...

But I think that the BEEP has been found to be caused by APRS on each NEW beacon. I will try to make BEEPS OFF squelch that...

141. Newbie Question - Mac APRS?

From: miles@mail.utexas.edu (Miles Abernathy)
Date: Mon, 20 Mar 1995 19:35:07 -0600
To: aprssig@tapr.org
Message-ID: <v01510101ab93dd6008a5@[128.83.204.51]>
Rendered body type: text/plain

Is there a Macintosh version of APRS? Where is it to be found?
Thank you.

Miles Abernathy, University of Texas, POB 7580, Austin TX 78713 U.S.A.
miles@mail.utexas.edu N5K0B tel. 512-471-6521 Hook 'em Horns!

142. APRS Availability

From: wnoille@fly.HiWAAY.net
Date: Mon, 20 Mar 95 23:02:55 CST
To: aprssig@tapr.org
Message-ID: <Chameleon.950320230452.wnoille@wnoille.HiWAAY.net>
Rendered body type: text/plain

Where can i get the latest APRS version via internet, i'm new at internet but not APRS and wan't to use the net to get the latest version, thanks.

---- Bill KE4EER ----

143. another aprs problem??

From: DDOBBINS@aol.com
Date: Tue, 21 Mar 1995 01:43:52 -0500
To: aprssig@tapr.org
Message-ID: <950321014348_55989424@aol.com>
Rendered body type: text/plain

3-21: Bob, just tried to do a gps mobile run. Position updated on screen only @ 1 min, vice the 10 sec updates i set via posrate. Saved the file and confirmed that each of the 16 lines that were saved all say "last nmea fix", vice the "rmc fix" that i normally see in my gps track histories. The on-time was about 15 mins. Should have had many more positions reflected in the HST file. Running 6.6 under HSP. Additionally, when I load these into a map using mapfix/mapfixer, the program says "plotting gps..." but nothing appears on the screen. Compared it to a tk hst I did in sdgo. Only diffs are after @151634 in good file is a "z", and new file is a "/", plus the last entry "last nmea fix". Would you please check that the fact I'm in southern/eastern hemispheres (S/E) are not causing probs. Also confirmed that mapfix/fixer are not source of prob, as I overlaid a gps hist file onto the sdgo map with no problem. Just ran another test. APRS toggles @ 10 secs as I specified in posrate, and updated on screen. However when I reviewed the HST file after 10 minute track, the file only had posn updates @ 1 min saved, with last entry of each line "last nmea fix", vice "RMC Fix", which I've got listed in other HST files. So, in sum, it appears that APRS is working OK in GPS mobile mode, but not all the position reports are being saved. Thus when I bring up the gps track in mapfix/mapfixer, there is no history to plot. Turn it over to you. Regards, Dave.

144. Re: [APRSSIG:362] another aprs problem??

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 21 Mar 1995 06:48:28 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503211248.GAA10809@solar.cs.tamu.edu>
Rendered body type: text/plain

The "last GPS fix" data seem to indicate your receiver lost its lock to the birds. At least, that is what I see when my receiver has lost lock, and is sending the last position over and over and over. You might try, next time you see this, to do an 'OCG' to look at what the GPS is putting out directly.

My experience is limited to Motorola PVT-6 and VP-OnCore engines.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

145. APRS - MAC

From: Jim Neely <jneely@tenet.edu>
Date: Tue, 21 Mar 1995 07:05:27 -0600 (CST)
To: aprssig@tapr.org (Miles Abernathy)
Message-ID: <199503211305.HAA28547@Joyce-Perkins.tenet.edu>
Rendered body type: text/plain

Miles,

There is an excellent version of APRS for the MAC. Keith Sproul wrote it. His uncle lives in Round Rock and is a ham. He may even be in the roster.

I don't have any info on where to get it. If you don't get an answer quickly, I'll try to do some digging and get you the information. I may have it in the stuff I brought back frm the TAPR meeting. (Now if I can figure out where I put it. ;-)

73...jn

146. Re: [APRSSIG:360] Newbie Question - Mac APRS?

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 21 Mar 95 8:43:24 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.795793404.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The current release of MacAPRS is up on

ftp.ucsd.edu in the directory /hamradio/packet/tcpip/incoming

Some of the files (Map and Data) are already up on ftp.tapr.org

The new version (1.4) will be up on both of these sites soon. By the end of the week for sure, maybe even today (Tuesday).

Keith Sproul

Keith Sproul	WU2Z
Student Housing Network Administrator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

147. Re: [APRSSIG:365] Re: Newbie Question - Mac APRS?

From: miles@MAIL.UTEXAS.EDU (Miles Abernathy)
Date: Tue, 21 Mar 1995 08:14:26 -0600
To: aprssig@tapr.org
Message-ID: <v01510102ab943ad0d417@[128.83.159.101]>
Rendered body type: text/plain

>The current release of MacAPRS is up on

>

>ftp.ucsd.edu in the directory /hamradio/packet/tcpip/incoming

>

>Some of the files (Map and Data) are already up on ftp.tapr.org

>

>The new version (1.4) will be up on both of these sites soon. By the end of
>the week for sure, maybe even today (Tuesday).

Hi Keith!

Jim, WA5LHS, also replied to my request, mentioned that you have an uncle
in Round Rock, just north of here. This morning I was rooting around at
ftp.tapr.org when your message came in. I will probably wait until you put
up version 1.4. Thank you for writing it!

```
-----
| Miles Abernathy, N5KOB | "I urge you to dream - I did, and one |
| U. of TX, P O Box 7580 | day I found myself standing on the |
| Austin, Texas 78713 USA | surface of the moon." - Gene Cernan |
-----
```

148. aprs defaults at start up

From: Gordon Fuller <gfuller@netcom.com>
Date: Tue, 21 Mar 1995 07:27:42 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9503210736.A11691-0100000@netcom7>
Rendered body type: text/plain

Is there a way to change the default for MYA of RELAY in APRS ? I run an
HF gateway and everytime I start APRS, I have to remember to change MYA to
Gate/WIDE. I changed it to Gate in the config. file but it doesn't change
anything. Thanks Gordy WB6OVH Sacramento, CA.

gfuller@netcom.com

149. Re: [APRSSIG:362] another aprs problem??

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 21 Mar 1995 10:55:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950321102204.4492A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

DOBBINS reported running a 15 minute mobile GPS test but APRS only saved
some of the reports, not all. There is not enough information for me to
work on. Here are some thoughts:

There are MANY GPS modes, and each one has its own code:

HSP, SPM or 2nd Serial port OR stand-alone mode
GGA, GLL, or RMC
In Stand Alone mode: PACCOMM, AEA, KANTRONICS, TAPR, OR normal UI mode

This results in 4 x 3 x 5 or over 60 different combos of hardware.
EACH COMBO HAS ITS OWN UNIQUE FEATURES AND QUIRKS..

NOTE that APRS ONLY saves reports that are DIFFERENT more than 80 YDS. If
the vehicle was NOT moving, then you will NOT get a track history.

When APRS puts the words LAST NMEA FIX in the posit, then the GPS
available BIT in the GGA sentence is a 0, and the posit is NOT current.

SOME GPS's send old posits when they loose a fix. SOME TNC's send old
posits when they loose GPS input..

SO, this is not a FLAME to DOBBINS (a very good APRS supporter!) but a
reminder that if you have a problem, I need to know EVERYTHING. And
unfortunately, that takes a lot of typing.. hi hi OH yes, always tell me
your version of APRS too...! There are lots of variables there too!

150. Re: [APRSSIG:367] aprs defaults at start up

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 21 Mar 1995 11:36:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950321112735.4492C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 21 Mar 1995, someone wrote:

> Is there a way to change the default for MYA of RELAY in APRS ? I run an
> HF gateway and everytime I start APRS, I have to remember to change MYA to
> Gate/WIDE. I changed it to Gate in the config. file but it doesn't change
> anything. Thanks

>
ANSWER>

Sorry, OM, you are mistaking your ALIAS with your DIGI path. if you set your ALIAS to gate/WIDE you are making your alias on HF be GATE which IS A DISASTEROUS THING TO DO. YOUR STATION WILL DIGIPEAT EVERY PACKET on HF back out onto HF! (doubling the QRM!)

If you are trying to be a GATEWAY, then you should set your MYGate to GATE. DO NOT SET your MYA to anything other than ECHO on HF and RELAY on VHF...

Finally, then, your UNPROTO path should be set to GATE,WIDE on HF so that your station packets are gatewayed by other gateways onto their local VHF nets. You may set your VHF UNPROTO to WIDE or whatever you need to get through your local VHF digipeater...

To REPEAT, do NOT set MYA to gate.

151. Virginia Maps in 6.7

From: Bwimmers@aol.com
Date: Tue, 21 Mar 1995 12:21:17 -0500
To: aprssig@tapr.org
Cc: dvelez@ix.netcom.com, klarson@access.digex.net
Message-ID: <950321122116_56293777@aol.com>
Rendered body type: text/plain

Hey Bob, where did all of the Virginia maps go? There is only one Va map and that is VAstate.map.
What happened?

Bernie
KC4YMP

152. Re: Different GPS Receivers

From: dgibbs@ix.netcom.com (Doug Gibbs)
Date: Tue, 21 Mar 1995 10:50:16 -0800
To: aprssig@tapr.org
Message-ID: <199503211850.KAA09318@ix2.ix.netcom.com>
Rendered body type: text/plain

On Monday 20 Mar 95, Robert Bruninga said:

>Regarding the question about ROCKWELL engines... The only ones I have
>seen all have a massively parallel interface. To convert the data to
>serial NMEA requires someone elses processor... I am talking about
>their basic OEM module. Not about any particular GPS product.
>If they are now providing a basic GPS card with NMEA output, I d love
>to hear about it...

The Rockwell NavCore V and MicroTracker GPS OEM receiver boards both use a serial data port for their communication both in and out. They both initially used a proprietary Rockwell data format. Rockwell now has available the MicroTracker LP which provides the NMEA 0183 serial data format. In addition, it has a second serial port for RTCM SC-104 differential correction input. The board is 2.0"x2.8"x0.36" and requires +5VDC only power. As with the NavCore V it is a 5 channel receiver but tracks up to 9 satellites. On the price sheet I have it sells for \$355 in quantity one. Hope this helps. I have fairly extensive information for the Rockwell boards and for the GEC Plessey GPS Chip Set and some information for about all of the OEM boards.

Doug Gibbs
W8NFT
dgibbs@ix.netcom.com
70010,245@compuserve.com

153. Re: [APRSSIG:370] Virginia Maps in 6.7

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 21 Mar 1995 14:51:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950321144737.9183B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 21 Mar 1995 Bwimmers@aol.com wrote:

> Hey Bob, where did all of the Virginia maps go? There is only one Va map and
> that is VAstate.map.
> What happened?
>

REMINDER TO EVERYONE:

When you download a new version of APRS from now on, the MAPLIST.APR (USA) will overwrite your current copy of MAPLIST.APR (which will be your own customized list, or one of the three EAS,CEN,or WES versions. That is why the basic APRS file contains all MAPLISTS.xxx.

To restore the MAPLIST for your area, simply COPY the MAPLIST.xxx appropriate for your area to MAPLIST.APR...

154. APRS version 6.7a (and BEEP comments)

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 21 Mar 1995 15:12:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950321145512.9183C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I just posted 6.7a which only makes a few minor tweaks to 6.7 (no bugs so far). The tweaks do the following:

- * Draws the 3D ALT scale last, so it is NOT overwritten by CALLS
- * Sounds a unique BEEP when ur station hears someone ELSE Ping.
I find this nice to know that a HUMAN operator is out there playing
- * Changed FILES-REPLAY so that it does NOT always re-draw the map (this takes advantage of the MAP SCREEN page flip introduced earlier)
- * XMT command now prompts for which packet to send, vice sending all of them.

This new EXE and just a new NEWNOTES.txt are posted in a 67to67a.zip file which is about 170K I think....

If you already got 67, you may hold off to see if any BUGs are reported. If you havent gotten 67 yet, be sure to get this upgrade file.

MORE ABOUT BEEPS. I tested my APRS again last night, and it is totally silent if BEEPS are turned off..... What I realize now, is that the stations that are compaliningin about BEEPS probably have old versions. Somewhere a few months back I squelched all BEEPS.

IN CONCLUSINN.. If you note a BUG, or feature, BE SURE TO TELL US WHAT VERSION you are running....

FINALLY: To really see the beauty of the 3D display, be sure to replay all three files: BALLOON1/3 and AIRCRAFT.hst

155. FTP 67a

From: eashway@VNET.IBM.COM
Date: Tue, 21 Mar 95 15:25:34 EST
To: aprssig@tapr.org
Message-ID: <199503212034.OAA06571@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

Where on the Internet can I FTP 67 and 67a???

Tried severl listed in doc, but 67 or 67a not found.

Thanks

Ed - W9KTH

156. Re: OEM GPS Boards

From: dgibbs@ix.netcom.com (Doug Gibbs)
Date: Tue, 21 Mar 1995 12:28:41 -0800
To: aprssig@tapr.org
Message-ID: <199503212028.MAA20932@ix2.ix.netcom.com>
Rendered body type: text/plain

On 21 MAR 95, jan@archimedes.vislabs.navy.mil(Jan A. Barglowski) wrote:

>
>Doug:
>
>I just joined the TAPR APRS SIG yesterday, and I'm amazed at all the
>mail coming through!
>
>Oh, yea, I'm interested in getting a OEM GPS board to integrate with a
>spare MFJ-1270B TNC board I have sitting around. Do you have any
>suggestions on what a simple, easy to integrate GPS receiver would be?
>

The Rockwell Microtracker LP that I discussed would be ideal. For more information you can contact:

Spectra Systems, Inc.
600 North Pine Island Rd.
Plantation, FL 33324-1304
TEL: 305-475-0070

There are a number of other similar boards with NMEA 0183 output from Motorola, Trimble, Magellen, etc. They all sell for between \$350 and \$600.

>
>And I hear that TAPR put out a version of their firmware that can take
>the NMEA data stream input. Do you know where I can get a copy of the
>firmware so I can burn my own, or do I have to buy the chip thru TAPR.
>

I would suggest contacting TAPR for the EPROM update.

>
>Or should I "post" these questions to the mailing list? :-)
>

I hope I've answered some of your questions and I will post this reply to the list also.

>
>Thanks for any help!

>
>73, jan
>kc6uth
>

>
> Jan Anthony Barglowski Phone: (619) 927-1057
> Computer Dude Internet: jan@archimedes.nwc.navy.mil
> Visualization Lab Packet: SYSOP@WA6YBN.#SOCA.CA.US.NA
> Naval Air Warfare Center kc6uth@kc6uth.ampr.org
> -Weapons Division [44.17.2.6]
>
>

You are welcome.

Doug Gibbs
W8NFT
dgibbs@ix.netcom.com
70010,245@compuserve.com

157. MacAPRS 1.4.0

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 21 Mar 95 15:36:53 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.795818213.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

To: APRSSIG
MacAPRS list (done via BCC to not include long list of names)

MacAPRS 1.4.0

Dual Port TNC Release

MacAPRS Version 1.4.0 is now up!

ftp.tapr.org aprssig
ftp.ucsd.edu /hamradio/packet/tcpip/incoming

This release has MANY new features!! Most of them are listed below...

* Dual Port TNC Support. If you have an AEA PK-900, AEA DSP-2232, or Kantronics KAM, you can now PROPERLY support both ports. MacAPRS has been supporting and recognizing dual port data from these TNCs for awhile, but it did not send data out to them using the dual port mode features. It does now. For example, if someone sends you a message on VHF, it will only ACK on VHF..

If you select a station to send a message to, it will ONLY send it on the band that station was first seen on.. You can always override this too.

The dual port stuff will also work if you have two different TNCs on two different ports.

* Balloon Support. Some of the balloon features have been in MacAPRS for awhile, but now there is a BALLOON STATISTICS window that will show the altitude plot of any tracked station that has altitude data. The other balloon prediction stuff is progressing quite nicely, but is not finished yet.

IF YOU HAVE AN INTEREST IN THE BALLOON STUFF, PLEASE LET ME KNOW BY E-MAIL!

* Automatic Tracking. If you turn on this feature, any station that is of a moving station type (car, truck, plane, boat, hurricane, etc) it will AUTOMATICALLY create track data in memory..

* Station Selection In PC APRS this is called JUST. This is a dialog box that allows you to select which types of stations get displayed on that map. This is selectable MAP BY MAP. For example, you can have one map of an area showing all stations, and another map of the same area showing JUST the weather stations, and another map of the area showing JUST the gateway/digipeater stations.

* Flagged Stations.. There is now a FLAGGED STATION list window that will show only those stations that have been 'flagged'. To FLAG a station, go to any one of the other station lists and select a station, then hit the 'F' key. This allows you to show only those stations that you are interested in.

* FIND See if you can find out what is new with the FIND command. :-)
The FIND command used to work ONLY if you were in a MAP window. Now, if you have any of the LIST windows open, you can find many other things..

Station List,
When list
Weather List
RDF List
Flagged Station List

You can find a call sign... It will automatically scroll the window to the call you type in, AS YOU TYPE IT..

Airport List
You can type in a CITY name or a CITY name and STATE to find the airport codes. This searches ALL 22,000 airports in less than a second!

DX Countries List
You can type in the PREFIX and it will show you the country name.

* B&W support
(If you have a B&W display, 1 bit, not gray scale)
The MESSAGE window now displays messages TO you in italics and BULLETINS underlined. If you have a color display, they stay in the colors as before.

Keith Sproul

Keith Sproul	WU2Z
Student Housing Network Administrator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

158. Re: [APRSSIG:375] Re: OEM GPS Boards

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 21 Mar 1995 15:24:31 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503212124.PAA20576@solar.cs.tamu.edu>
Rendered body type: text/plain

Doug Gibbs sez:

>
> > spare MFJ-1270B TNC board I have sitting around. Do you have any
> > suggestions on what a simple, easy to integrate GPS receiver would be?
> >
>
> The Rockwell Microtracker LP that I discussed would be ideal. For more

```
> information you can contact:
>
>           Spectra Systems, Inc.
>           600 North Pine Island Rd.
>           Plantation, FL 33324-1304
>           TEL: 305-475-0070
>
> There are a number of other similar boards with NMEA 0183 output from
> Motorola, Trimble, Magellen, etc. They all sell for between $350 and
> $600.
```

Ive been getting the Motorola VP OnCore engines for \$318 with the LNA Preamp onboard, allowing use of the M/A-Com ANP-C-109 passive patch antenna (\$36).

Contact CA Richards, Houston TX for the GPS engines. They've indicated the first break below that price is at 100 qty... M/ACom has been real good about selling small quantities to us for a little cow project...

73, Gerry

```
--
Gerry Creager N5JXS          * SAREX Co-Investigator
gerry@cs.tamu.edu           * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile
*****
```

159. APRS MAPS

```
From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 21 Mar 1995 16:28:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950321155034.9183F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain
```

Although this is a hobby, anyone that figures out how to make APRS maps easily and efficiently (and that is looking for some extra income to keep his HOBBY going) should have no problem selling them. As you can see, there is a DEMAND for APRS maps. and the country is BIG!

If you are a student, or retired, or just have time on your hands, you will get no objection from me if you want to make APRS maps for hire... Unfortunately, once you make them, they sort-of become public, so do NOT expect to make royalties after you release it. If you are going to go into this business, let us know!

I suspect tho, since it is very geographically explicit, a repeater or local club might be willing to fund the making of a local map for their area. Everyone in that area would want it, but NOT too many folks outside of the area would.

I have found that with a good (BIG) digitizer, that it takes me about 4 hours to do a 7.5 min map of a reasonably urban area. Less than 2 hours to do a more rural area. The only thing you need is for the customer to send you the original paper map to digitize.... Figure your time, and I would think that some HAM groups might be able to afford your service...

I have not yet made a complete map with the 100,000 CD ROM data. It takes hours and hours (I could probably learn to do it much faster, but it still seems more tedious and frustrating and glitchy and HUGE! The only advantage of this method, is that you dont need the customer to find and send you a paper map. But you would need all 13 CD ROMS to cover the whole country... Pllus you are stuck to the USA.

This message is not meant to commercialize or to detract from the grass roots public domain concept of APRS maps, but is simply meant to encourage anyone with the time to make themselves availalbe to groups that need maps.

KUDOS and homage to all of those very dedicated APRS map makers who have slaved and divorced over these maps! Their contributions without remuneration are fantastic!

Map making is fun and adicting (look at the efforts of W7KKE, KB8JX0, KG8GE, KG0DW, WH6YHC, KU0G and many others listed in MOREMAPS.txt!

COmments anyone???

160. Re: [APRSSIG:374] FTP 67a

```
From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 21 Mar 1995 16:33:15 -0500 (EST)
```

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950321162941.9183G-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 21 Mar 1995 eashway@VNET.IBM.COM wrote:

> Where on the Internet can I FTP 67 and 67a???
>
> Tried severl listed in doc, but 67 or 67a not found.
> > Thanks

WHEN I ANNOUNCE A NEW VERSION, it means I have posted it on the Annapolis MD BBS 410-280-2503. From there, who knows where it goes, and how long it takes to get out. S0meone besides me has been posting them on the internet (usually KE6ET or WA3YYP (bless their hearts)).

I do not post them on INTERNET, cuz I just havent learned how. I cant even figure out how to get a file attached to EMAIL off the stupid UNIX machine into my PC... S0meday. So just wait a week or so, and someone will post it and let us know...

161. Re: [APRSSIG:378] APRS MAPS

From: kirk@neptune.gsfc.nasa.gov (Robert Kirk)
Date: Tue, 21 Mar 1995 17:25:00 -0500
To: aprssig@tapr.org
Message-ID: <199503212227.RAA21443@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 03:52 PM 3/21/95 -0600, Robert Bruninga wrote:
>Although this is a hobby, anyone that figures out how to make APRS maps
>easily and efficiently (and that is looking for some extra income to keep
>his HOBBY going) should have no problem selling them. As you can see,
>there is a DEMAND for APRS maps. and the country is BIG!
>

[...]

>Map making is fun and adicting (look at the efforts of W7KKE, KB8JX0,
>KG8GE, KG0DW, WH6YHC, KU0G and many others listed in MOREMAPS.txt!
>
>C0mments anyone???

The most fun way to make a map is to get in the car and drive around with the GPS on. After a few months you should have a nice local map of all the places you usually go... Bob kirk N30ZB

162. Garmin GPS-20 OEM

From: paul@paccomm.com
Date: Tue, 21 Mar 95 17:11:53 UTC
To: aprssig@tapr.org
Message-ID: <1674@paccomm.com>
Rendered body type: text/plain

Hi. Is anybody else out there playing with the new Garmin OEM GPS-20 unit to compare notes with?????

Paul Evans, W4/G4BKI paul@paccomm.com
+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)
The views expressed in this message are not necessarily those of PacComm.
"I say, Ratty, just because we're staring adversity in the face,
there's no need to forget the rules of grammar"
- Mole, "The Wind in the Willows"
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

163. Re: [APRSSIG:378] APRS MAPS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 21 Mar 95 17:52:02 EST
To: aprssig@tapr.org
Cc: sproul@eos.ap.org
Message-ID: <CMM-RU.1.4.795826322.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

Bob said....

Although this is a hobby, anyone that figures out how to make APRS maps easily and efficiently (and that is looking for some extra income to keep his HOBBY going) should have no problem selling them. As you can see, there is a DEMAND for APRS maps. and the country is BIG!

....

Well, there is a different solution in the works (although it WONT be out by Dayton)...

I have had SOOOOO many requests from frustrated PC users about Maps that I have decided to take my map-making abilities and create a feature that will load the entire MAP array(s) into memory, then do a re-iterive (sp?) size reduction on it, showing the user the results each pass thru.. This will make use of extensive graph/map/polygon type manipulations, and will re-connect the un-connected points (or at least they SEEM unconnected) from the USGS data bases..

This will be done in the MAC version, but will create the map files for PC APRS. Due to the size of the original maps and the complexity that might be involved, this will be probably require a lot of memory to run. (In PC terms anyway, in Mac terms, it will run on most of the color Macs out there).

I have already started to do some of the analysis to figure out ways to further and further reduce the data points, but I do not expect to have this done for a few months.. (do don't bug me to much :-)

Keith Sproul

Keith Sproul	WUZZ
Student Housing Network Adminstrator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

164. TEST

From: Richard Amirault <amirault@max.tiac.net>
Date: Tue, 21 Mar 1995 18:02:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9503211836.C7656-0100000@max.tiac.net>
Rendered body type: text/plain

I tried to subscribe to this mailing list a while ago..
Have not seen any trafic yet.

Will I get this message?

Richard
amirault@tiac.net

165. Re: [APRSSIG:377] Re: OEM GPS Boards

From: rberger@metronet.com (rberger@metronet.com)
Date: Tue, 21 Mar 1995 21:18:25 -0600
To: aprssig@tapr.org
Message-ID: <199503220214.AA16170@metronet.com>
Rendered body type: text/plain

Gerry,

Bob told me that you are doing additional maps for Texas. I was wondering if you have any better maps for the DFW area yet. Also since I last met you at FM Society meeting how is your "Cows-IN-Space" project going.

73's

Randy WA0D

```
=====
=====
Randy Berger (WA0D)
      E-Mail:   rberger@metronet.com
Gapevine, TX
                                rberger@corp.adapte.com
=====
=====
```

166. Re: [APRSSIG:378] APRS MAPS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 21 Mar 1995 20:25:41 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503220225.UAA25610@solar.cs.tamu.edu>
Rendered body type: text/plain

I have experimented some with the 1:100k DLG's from USGS. The data are 1976 vintage, making them kinda questionable. I'm working now with the Mapping Sciences Labs at Texas A&M to determine if we can input automagically some newer data from Texas Dept of Transportation. While I realize this isn't much good for the rest of the country, it does open some avenues if we can figure out the headers, etc.

I'll keep y'all posted.

73, gerry
"Cows In Space!"

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

167. Re: [APRSSIG:381] Garmin GPS-20 OEM

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 21 Mar 1995 20:30:50 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503220230.UAA25652@solar.cs.tamu.edu>
Rendered body type: text/plain

paul@paccomm.com sez:

>
> Hi. Is anybody else out there playing with the new Garmin OEM GPS-20 unit to
> compare notes with?????

Paul,

You'd not mentioned that you guys were. I've looked at it and wasn't too impressed... if that's the one I think: fixed antenna, a patch mounted to the board?

Does Garmin still retain the insane idea that they should lock out dynamics above 90 or so knots and/or at altitude?

73, gerry
Gerry Creager N5JXS
"Cows In Space"
gerry@cs.tamu.edu

168. Re: [APRSSIG:384] Re: OEM GPS Boards

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 21 Mar 1995 20:42:07 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503220242.UAA25916@solar.cs.tamu.edu>
Rendered body type: text/plain

Randy,

I've not gotten anywhere with the TxDOT maps for the region just yet. We're awaiting a care package from TxDOT at the Mapping Science Lab, and we'll go from there. If it's successful, I intend, over time, to try to generate 1:24k based maps of the major metropolitan areas, as well as where my cows will be.

Cows In Space is coming along slowly. I've started seeing some integration problems with the PacComm TNCs I've been using, almost certainly operator induced. Once I get past that, I expect to be back on track... or on the trail.

We're supposed to go to fabrication on the boxes this week. Motorola told us today that they were interested in supporting us with hardware, to the tune of 20+ GPS boards. TNCs and radios are in house. I've started integration and software development of a low-cost differential reference station... shooting to provide similar services at a cost significantly below Ashtech or Trimble... NASA has given us enough lithium batteries for 1-2 months of operation, maybe more... Gotta see how the actual power budget works out as opposed to the (conservative) estimates. And we're now looking at alkaline batteries for a low-cost alternative to the space-rated lithium cells.

I'll post more when it's available. I suspect we'll have a web page up on this eventually.

73, gerry
--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk

169. APRS and Compaq Contra Aero

From: dlarsen@spider.lloyd.com (Don Larsen)
Date: Tue, 21 Mar 95 22:15 PST
To: aprssig@tapr.org
Message-ID: <m0rrJhb-0008FZC@spider.lloyd.com>
Rendered body type: text/plain

Hi,
I have enjoyed APRS since ver3.?? on my desk top computer. I would like to take it mble on my laptop computer, but I have never been able to get it to run on the laptop. Let me start at the top. The laptop that I am trying to use is the Compaq Contra Aero 4slc/25. The current version of Aprs is 6.6. The problem is as follows. When I try to start the program I fill in all the parameters and when the program starts, it locks up when trying to initialize the tnc. At this point the computer has to be powered down to escape the program. As I said at start I am running the same version on the desk top with no problems, but have never had any luck with the laptop. I have tried all the possible configurations at the start up with no change. If however I chose no TNC then I can input objects on the screen and it seems to be running correctly, but who can tell since I have to post everything. If I hook up the gps unit to the computer, it will either lock up the program or crash the program. Again the gps works fine on the desk top.

Dose any one have any suggestions? Or maybe a call to Compaq tech support?
What do you think?
Don Larsen, N4JOP
dlarsen@spider.lloyd.com
P.O. Box 941
Camino, CA 95709

170. GPS Boards and Info

From: dlarsen@spider.lloyd.com (Don Larsen)
Date: Tue, 21 Mar 95 22:15 PST
To: aprssig@tapr.org
Message-ID: <m0rrJhZ-0008FWC@spider.lloyd.com>
Rendered body type: text/plain

Hi All

In the last couple of weeks there has been a lot of discussion about different GPS boards. I thought that there might be some interested to know that there is a magazine published called GPS WORLD which discusses news and applications about the GPS system. The address for subscription information is as follows:

GPS World
P.O. Box 7677
Riverton, NJ 08077-7677
or call
1-800-949-6526

I hope that this info is useful to someone.
Don Larsen, N4JOP
dlarsen@spider.lloyd.com
P.O. Box 941
Camino, CA 95709

171. Re: [APRSSIG:371] Re: Different GPS Receivers

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Wed, 22 Mar 1995 03:22:20 -0500 (EST)
To: Doug Gibbs <dgibbs@ix.netcom.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9503220308.A15543-9100000@acme>
Rendered body type: text/plain

Hi Doug - I'm the guy with the Rockwell Engine in the GPS unit. Yes it does have the right NEMA output and is differential ready, but I think that it is a NavCore V series instaed of the MicroTracker. We are going to have to do a drive around some Thursday night and catch up with each other over coffee, and compair units.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

172. Re: [APRSSIG:388] APRS and Compaq Contra Aero

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 22 Mar 1995 06:25:03 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503221225.GAA04351@solar.cs.tamu.edu>
Rendered body type: text/plain

the only thing I can offer is that on *MY* Contura Aero, it runs fins. I just load and go! I suspect your cabling to the TNC may be missing some handshaking?

Hope this helps.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

173. Re: [APRSSIG:391] Re: APRS and Compaq Contra Aero

From: dlarsen@spider.lloyd.com (Don Larsen)
Date: Wed, 22 Mar 95 07:51 PST
To: aprssig@tapr.org
Message-ID: <m0rrShH-0008FKC@spider.lloyd.com>
Rendered body type: text/plain

>the only thing I can offer is that on *MY* Contura Aero, it runs fins. I just
>load and go! I suspect your cabling to the TNC may be missing some
>handshaking?

>

>Hope this helps.

>

>73, gerry

>--

>Gerry Creager N5JXS * SAREX Co-Investigator
>gerry@cs.tamu.edu * A little radio that lets kids talk
>gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile
>*****

>

Hi Gerry,

I wonder if the handshaking is different than that used to run normal packet on the KPC3, I have run several communication programs with the TNC on regular packet and have not had a problem. Thanks for the input

Don Larsen, N4JOP@KM6PX.#NOCAL.CA.USA.NA
dlarsen@spider.lloyd.com
P.O. Box 941
Camino, CA 95709

174. Re: [APRSSIG:389] GPS Boards and Info

From: kirk@neptune.gsfc.nasa.gov (Robert Kirk)
Date: Wed, 22 Mar 1995 09:22:19 -0500
To: aprssig@tapr.org
Message-ID: <199503221424.JAA23715@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 12:35 AM 3/22/95 -0600, Don Larsen wrote:

>Hi All

>

>In the last couple of weeks there has been a lot of discussion about
>different GPS boards. I thought that there might be some interested to know
>that there is a magazine published called GPS WORLD which discusses news and
>applications about the GPS system. The address for subscription information
>is as follows:

> GPS World
> P.O. Box 7677
> Riverton, NJ 08077-7677
> or call
> 1-800-949-6526
>

>I hope that this info is useful to someone.

>Don Larsen, N4JOP

>dlarsen@spider.lloyd.com

>P.O. Box 941

>Camino, CA 95709

>

But don't expect any info on comparing brands. It's pretty much of a trade magazine, so they never offend any of the companies (and advertisers). They

do an annual listing of the specs of most all the units, though, which is useful, and they do publish all the manufacturer's press announcements, so you know what's new. They also cover the Washington lobbying front.

They just published an article where an agency or university did a comparison of the performance of several units of different types, but removed the brand names: called them Brand A, Brand B, etc. Real useful.

Bob Kirk
N30ZB

175. Re: [APRSSIG:362] another aprs problem??

From: BHVP28A@prodigy.com (MR JEFFREY L MOTHERSBAUGH)
Date: Wed, 22 Mar 1995 08:17:50 EST
To: aprssig@tapr.org
Message-ID: <013.04709643.BHVP28A@prodigy.com>
Rendered body type: text/plain

UN-SUBSCRIBE

176. Re: [APRSSIG:388] APRS and Compaq Contra Aero

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 22 Mar 1995 11:05:08 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950322110155.16974F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Concerning the fellow that had probs getting APRS to run on his LAPTOP:

The first thing I would check, is available RAM. APRS 6.6 requires over 550K of program memory to run. Type the MEM or CHKDSK DOS commands to see how much PROGRAM memory you have. If you do not have enough., rename your autoexec.bat file and start the PC and then check how much RAM. If still not enough, you may need to modify your CONFIG.SYS to use up less memory.

The reason it runs without the TNC or GPS, is beacuse they need the serial port, that takes up about 3K of memory additional...

177. Re: [APRSSIG:389] GPS Boards and Info

From: jgarrett@world.std.com (John Garrett)
Date: Wed, 22 Mar 1995 09:24:43 -0500
To: aprssig@tapr.org
Message-ID: <hC35lmpA4Ab1065yn@World.std.com>
Rendered body type: text/plain

" Hi All
"
" In the last couple of weeks there has been a lot of discussion about
" different GPS boards. I thought that there might be some interested to know
" that there is a magazine published called GPS WORLD which discusses news and
" applications about the GPS system. The address for subscription information
" is as follows:
" GPS World
" P.O. Box 7677
" Riverton, NJ 08077-7677
" or call
" 1-800-949-6526
"
" I hope that this info is useful to someone.
" Don Larsen, N4JOP
" dlarsen@spider.lloyd.com
" P.O. Box 941
" Camino, CA 95709
"
" I just dialed the 800 # and it was NG from Boston. 800 directory
" assistance has nothing either. Guess its snail mail!
John
WN9T

178. GPS World 800 Number

From: dlarsen@spider.lloyd.com (Don Larsen)
Date: Wed, 22 Mar 95 10:27 PST
To: aprssig@tapr.org
Message-ID: <m0rrv7u-0008FWC@spider.lloyd.com>
Rendered body type: text/plain

Sorry for the confusion on the number, I messed up the last digit, so here it is again
1-800-949-6525
Hope this helps
Don Larsen, N4JOP@KM6PX.#NOCAL.CA.USA.NA
dlarsen@spider.lloyd.com
P.O. Box 941
Camino, CA 95709

179. Re: [APRSSIG:395] Re: APRS and Compaq Contra Aero

From: dlarsen@spider.lloyd.com (Don Larsen)
Date: Wed, 22 Mar 95 10:42 PST
To: aprssig@tapr.org
Message-ID: <m0rrVML-0008FWC@spider.lloyd.com>
Rendered body type: text/plain

>Concerning the fellow that had probs getting APRS to run on his LAPTOP:
>
>The first thing I would check, is available RAM. APRS 6.6 requires over
>550K of program memory to run. Type the MEM or CHKDSK DOS commands to
>see how much PROGRAM memory you have. If you do not have enough., rename
>your autoexec.bat file and start the PC and then check how much RAM.
>If still not enough, you may need to modify your CONFIG.SYS to use up less
>memory.
>
>The reason it runs without the TNC or GPS, is beacuse they need the
>serial port, that takes up about 3K of memory additional...
>
Thanks Bob,
I will check the memory and see if that makes a difference. The compaq dose
load a lot of info into mem on startup. I will let you know how it works
Don Larsen, N4JOP@KM6PX.#NOCAL.CA.USA.NA
dlarsen@spider.lloyd.com
P.O. Box 941
Camino, CA 95709

180. Re: [APRSSIG:392] Re: APRS and Compaq Contra Aero

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 22 Mar 1995 16:51:17 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503222251.QAA16156@solar.cs.tamu.edu>
Rendered body type: text/plain

Don Larsen sez:
>
> I wounder if the handshaking is different than that used to run normal
> packet on the KPC3, I have run several communication programs with the TNC
> on regular packet and have not had a problem. Thanks for the input

Oops! i was braindead this morning! Not enuff coffee!

The KPC-3 is different. Make sure you're not in the new user mode, since it
makes you lose some important commands. We saw this at a meeting here locally
a couple of weeks ago. I'd reread the manual (I use PacComm hardware pretty
exclusively) and recheck cabling to proceed.

73, gerry

181. Agrelo 2m Radio an APRS

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Tue, 21 Mar 1995 06:59:31 -0600
To: aprssig@tapr.org
Message-ID: <199503222334.RAA20527@home.interaccess.com>
Rendered body type: text/plain

Hi all,

Dave KA9NHL and I have both recieved our "radio on a chip" from Agrelo and
are impressed with the units overall preformance. Units will soon be
installed into TNCs for balloon flights and stand alone trackers.

The one concern we share is the lack of a PTT function, as it stands now
when radio is on it xmits data.

Im thinking maybe we can control the power to unit via a switch or relay off
of the TXD LED and set the TNC TXDELAY command to a high value to allow
radio to get stable before it xmits.

Not being much of a solid state kinda guy (all my HF stuff is Heathkit)
anyone got any ideas

73

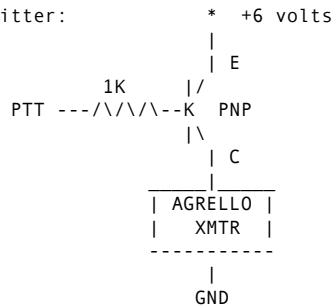
Ed N9LCI soon to be /MM on board the S/V SAOIRSE
(the ice is out in Chicago)

"all ignorance toboggans into know"
e.e. cummings

182. Re: [APRSSIG:400] Agrelo 2m Radio an APRS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 22 Mar 1995 19:01:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950322185507.24303A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Here is a trivial PTT circuit for the Agrelo postage stamp .5 W
2m transmitter:



Didja see the 3D display when replaying the new BALLOON1 and BALLOON3.hst
files included with 6.7? I think it will be neat for Balloons....
Put APRS in 3D display mode with the Y-AXIS command

183. Re: [APRSSIG:399] Re: APRS and Compaq Contra Aero

From: dlarsen@spider.lloyd.com (Don Larsen)
Date: Wed, 22 Mar 95 16:37 PST
To: aprssig@tapr.org
Message-ID: <m0rrrau5-0008FKC@spider.lloyd.com>
Rendered body type: text/plain

>Gerry said:

>The KPC-3 is different. Make sure you're not in the new user mode, since it
>makes you lose some important commands. We saw this at a meeting here locally
>a couple of weeks ago. I'd reread the manual (I use PacComm hardware pretty
>exclusively) and recheck cabling to proceed.

>

>73, gerry

>

You are correct about the new user mode on the KPC3, APRS dose very little
in this mode, but this is not my problem either. I am beginning to think
that it will take a call to compaq and see if they have any other ideas.
Others on the net have told me that they are able to run the program fine.

>

>Bob mentioned that it could be that there wasn't enough menory but when
following his directins and freeing up memory up to 598K there was no
success in starting aprs it continued to lock up at the point where it
repaint sceeen and initializing tnc

Thanks for the help, still looking for solution
Don Larsen, N4JOP@KM6PX.#NOCAL.CA.USA.NA
dlarsen@spider.lloyd.com
P.O. Box 941
Camino, CA 95709

184. (no subject)

From: Ricky_d._Chilcott@ieaust.org.au (Ricky d. Chilcott)
Date: 23 Mar 1995 20:10:48 GMT
To: APRSSIG@TAPR.ORG
Message-ID: <0.10299533@ieaust.org.au>
Rendered body type: text/plain

185. gps engines - WHERE???

From: Victor Fraenckel <victorf@wizvax.wizvax.net>
Date: Thu, 23 Mar 1995 06:31:08 -30000
To: aprs message place <aprssig@tapr.org>
Message-ID: <Pine.3.89.9503230642.A13095-0100000@wizvax.wizvax.net>
Rendered body type: text/plain

I have been lurking on this list for a month or so and have been facinated with the discussions.

i would like to offer a correction to the telephone number for Spectra Systems, Inc:

407 998 3160

I called them regarding their rockwell novcore offerings. there is a developers package with everything one needs to get rolling - board, power supply, interface (rs232), documentation and development software (PC) - the whole ball of wax for \$995. bare boards are also available but with NO documentation.

gerry creager wrote about the availability of the motorola OnCore engines and said to contact CA Richards, Houston, TX. I would like to investigate the OnCore engine. how do i contact CA Richards?

i would like to experiment with a gps engine but have never found a source that would sell me just one unit. are there any other places where i could inquire about boards,

also, i am very interested in DGPS. does anyone have experience with some of the available services, especially the DSI system that is piggybacked on FM station subcarriers?

any advice/assistance would be appreciated.

regards
vic fraenckel

|Windsway Company | Home of the WindReader Electronic Theodolite |
|victorf@wizvax.net | Read the WIND |

186. Initializing PK232

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 23 Mar 1995 07:24:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9503230758.B8844-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Here is a suggestion to put into the queue for upgrades of APRS.

I use a PK232 for both APRS and routine other packet applications. Another application leaves my PK232 in the MORSE mode upon shutdown. If this is followed by an APRS application, I find that I must manually get into the cmd mode and change to "packet" from "morse".

My suggestion is that APRS initialize the PACKET mode upon startup.

73,

KB4XE

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

187. garmin gps 40

From: ac235@detroit.freenet.org (Gerald Gomes Jr.)
Date: Thu, 23 Mar 1995 07:34:28 -0500
To: APRSSIG@TAPR.ORG
Message-ID: <199503231234.HAA16516@detroit.freenet.org>
Rendered body type: text/plain

? GPS-40 HANDHELD UNIT

This is a amazing GPS Handheld unit. Cost in the Detroit area is \$349.00.. I have heard that in some of the East and West coast areas it is now in the range of 299.00.. Weight of 9 ounces.

Battery life is a remarkable 20 hours when used in battery-saving mode, unit runs on 4AA's battery. GPS-40 can store 250 waypoints and up to 20 reversible routes with 30 waypoints each. MOB mode with bearing and distance to mark. Moving Map Plotting with scales to 1/5th statute miles. Physical size 6.15"h x 2"w x 1.23"d. Acquisition time Approx. 20 seconds (warm), Approx. 2 minutes (cold), Approx. 7.5 minutes (AutoLocate). Update Rate 1/second, continuous. Position Accuracy 15 meters (49ft.) RMS.

This unit is a true handheld in the lines of amateur radio, small size fits in the palm of the hand, has a build in antenna and your able to add an remote-mount magnetic active antenna. GPS-40 has connections for power 5 - 8 vdc, and input/output for data, it has NMEA interface capability.

###

188. Re: Different GPS Receivers

From: dgibbs@ix.netcom.com (Doug Gibbs)
Date: Thu, 23 Mar 1995 05:59:57 -0800
To: aprssig@tapr.org
Message-ID: <199503231359.FAA02895@ix2.ix.netcom.com>
Rendered body type: text/plain

On 22 Mar 95, John Baum wrote:

>
> Hi Doug - I'm the guy with the Rockwell Engine in the GPS unit.
>Yes it does have the right NEMA output and is differential ready, but I
>think that it is a NavCore V series instaed of the MicroTracker.
>
>The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
>Packet address KB8JX0@W8CQK.#CMH.OH.USA
>The 137th most knowledgable person about A.P.R.S.
>
>

John - I think your GPS unit has a control/display processor that is "talking" to the NaveCore V using the Rockwell proprietary serial format and then using the information to generate the NMEA 0183 serial output. I don't think Rockwell ever supplied any NaveCore V's with NMEA output although they have a development version of the software that provided it.

Doug - W8NFT@W8CQK.#CMH.OH.USA
dgibbs@ix.netcom.com
70010,245@compuserve.com

189. Forcing a map

From: Jess Girard <girard@panix.com>
Date: Thu, 23 Mar 1995 10:15:41 -0500 (EST)
To: APRS Sig <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950323101104.14429E-100000@panix.com>
Rendered body type: text/plain

Hi All:

Bill, wa2tqi, modified the map nycityli.map (I think that's the correct name) to enhance details in our local area in Fairfield County, CT.

I cannot seem to get this map to come up. I know it's there, I see it on the maplist file, but I can't seem to force the program to use it. I renamed it ct-li.map as an experiment and, indeed, then the program sees it with all the enhanced details included. But it's not the real ct-li map so I didn't leave things that way. I know I can use mapfixer or whatever it's called to import those details but I'm still mystified about why I can't force the nycitli map. Any ideas, anyone?

I'm using v.6.7a at present.

190. GGA and VTG sentences

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 23 Mar 1995 10:29:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950323093840.27675F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I have now had a few reports of APRS/GPS units not showing their course and speed when using the GGA and VTG sentences. I watched a local driving around, and probably only got course and speed 10% of the time..

Also, there is the report of the PK-12 not showing up with cse/spd.

I need more feedback. processing the VTG and combining it with a GGA from the same station is quite involved. As I pointed out before, there are over 60 different combinations of GPS-TNC and processing involved.

There are TWO ways for GGA/VTG to be transmitted FROM A STAND-ALONE-TRACKER, either combined into one frame with one header, or in separate frames with separate headers:

```
W3XYZ>APRS:$GPGGA.....CR/LF
$GPVTG.....CR/LF
```

Or:

```
W3XYZ>APRS:$GPGGA.....CR/LF
W3XYZ>APRS:$GPVTG.....CR/LF
```

The single packet version is what I use by placing the TNC in CONVERSE mode with SENDPAC changed to NOT be CR, and setting PACTIME to 1 second. This makes sure that the two ALWAYS are sent in the same packet. This assures that BOTH get through a digipeater together...

The second TWO-PACKET version will probably be the result of most of the TNC MANUFACTURES GPS modes... Although there are two separate frames, they MUST both be transmitted in the same PACKET in order to be digipeated together

APRS holds every GGA or GLL packet for 2 seconds before finally building a received position report.. If a VTG comes in within those 2 seconds, then it is applied to the same POSIT to give CSE and SPD. If it is later, then the VTG is ignored.

If you see any other combo of GGA/GLL/VTG, let me know what TNC and configuration is doing it. WAS a digi involved??

Now, in HSP mode, where the TNC is not involved and APRS is trying to read both the GGA and VTG from its own serial port, the same 2 second hold applies. In this case, APRS is looking for the raw strings WITHOUT packet headers (in fact, that is the only way it knows it is yours vice someone elses in HSP mode). Since most GPS units output at at least a 2 sec rate, APRS should get a GGA/GLL and VTG in that 2 secs....

Recently I did drop the 2 sec period down from 3 secs that it had been before... Maybe that is causing a problem??

SO, IF YOU ARE RUNNING HSP MODE AND YOU DO GET CSE/SPD, let me know. If you are NOT getting cse/spd also let me know. In both cases tell me everything... TNC, HSP switch, APRS version, NMEA RATE! (1 sec,2 sec etc)

REMEMBER that many GPS units do NOT output VTG if you are sitting still, so be sure you are moving before gathering your opinion. Also, look at the several NMEA strings coming out of your GPS. Tell me the order:

```
$GPZTG...
$GPGGA...
$GPVTG... (APRS assumes that VTG always follows GGA/GLL)
$GPxxx etc
```

Thanks for your input.

191. Re: [APRSSIG:405] Initializing PK232

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 23 Mar 1995 09:31:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950323092702.27675D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

OK, I give up, how does one change the PK-232 out of "morse" and into "packet"??

It is not easy writing software that is compatible with all of the in-compatible TNC's out there... and I cant afford to have one of each....

So please when you send me TNC specific ideas, please send me the EXACT command structure required to do what you ask... AND be sure you specify EVERYTHING required.

Remember, APRS has NO IDEA what mode or condition the TNC may already be in... So give me the sequence that will work in ALL CASES (EVERY POSSIBLE MODE).. hi hi

192. Re: [APRSSIG:408] Forcing a map

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 23 Mar 1995 11:57:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950323115157.27675G-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 23 Mar 1995, Jess Girard wrote:

> I cannot seem to get this map to come up. I know it's there, I see it on
> the maplist file, but I can't seem to force the program to use it. I

ANSWER: Please read the MAPS.TXT file concerning the heirarchial order of MAPS listed in the MAPLIST.xxx file. Just being listed in MAPLIST.xxx makes the map "available" to APRS, but it will only be USED if it is the "last" map in the list that covers the same geographical area. Thats why smaller and smaller maps are listed later and later in the file...

Thats also why you cannot alphabetize the MAPLIST.

In many cases you cannot even put all maps of the same state in order, since every map that crosses a state border, must also logically/heirarchly fit in with all maps of all adjacent states.

A new map will ALWAYS work if you make it the last one in the file, but then unknowingly, you may be obscuring some other map further up. Use the MAPS-BORDERS command to see ALL maps that overlap your area. Put your new map AFTER the last one of those maps...

193. Re: [APRSSIG:410] Re: Initializing PK232

From: Thomas Griffin - x7792 <griff@SSD.intel.com>
Date: Thu, 23 Mar 1995 10:06:50 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <9503231806.AA29794@bungee.SSD.intel.com>
Rendered body type: text/plain

How about adding a "setup.tnc" file to APRS. Then TNC specific commands could be sent to get the TNC in the desirable state prior to APRS making assumptions about the TNC. Just my \$.02 worth.

73, Thomas (Griff) Griffin, N7ZKL
Beaverton, Oregon, USA
Internet: n7zkl@amsat.org
Packet: n7zkl@k7iqi.or.usa.na

> OK, I give up, how does one change the PK-232 out of "morse" and into
> "packet"??

>

> It is not easy writing software that is compatible with all of the
> in-compatible TNC's out there... and I cant afford to have one of each....

>

> So please when you send me TNC specific ideas, please send me the EXACT
> command structure required to do what you ask... AND be sure you specify
> EVERYTHING required.

>

> Remember, APRS has NO IDEA what mode or condition the TNC may already be
> in... So give me the sequence that will work in ALL CASES (EVERY POSSIBLE

> MODE).. hi hi

194. Getting GGA and VTG out of a single TNC....

From: paul@paccomm.com
Date: Thu, 23 Mar 95 13:07:59 UTC
To: aprssig@tapr.org
Message-ID: <1796@paccomm.com>
Rendered body type: text/plain

If you use the Trimble SVee6CM(2), then you can get both GGA and VTG from it with an PacComm product.
The Trimble outputs only \$GPGGA and \$GPVTG, so just set:
GPSTEXT \$GP or GPSTEXT \$G or even GPSTEXT \$!!!!!
GGA and VTG will be picked off as they sync with your beacon rate....

Paul Evans, W4/G4BKI paul@paccomm.com
+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)
The views expressed in this message are not necessarily those of PacComm.
"I say, Ratty, just because we're staring adversity in the face,
there's no need to forget the rules of grammar"
- Mole, "The Wind in the Willows"
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

195. The Y command

From: kinahan@ws007-fddi.bytex.network.com (Tom Kinahan @ws007)
Date: Thu, 23 Mar 95 13:55:12 EST
To: aprssig@tapr.org
Message-ID: <9503231855.AA24102@ws007-fddi>
Rendered body type: text/plain

I snarfed a copy of APRS6.7 the other day and had a blast just playing the balloon and plane history files with the Y command on.

Bob, thanks for that feature!

I'm sure we'll get people putting that to use!

Also, I've been able to surf over to ftp.tapr.org and get 6.7 as well as the upgrade from 6.7 to 6.7a.

- Tom Kinahan N1CPE
kinahan@bytex.network.com

196. Re: [APRSSIG:404] gps engines - WHERE???

From: jgarrett@world.std.com (John Garrett)
Date: Thu, 23 Mar 1995 14:16:22 -0500
To: aprssig@tapr.org
Message-ID: <6aSSlmpA4weS065yn@World.std.com>
Rendered body type: text/plain

" I have been lurking on this list for a month or so and have been
" facinated with the discussions.

Nice to see you Vic. I've been an APRS user for a while, but just recently signed on to the list myself

[snippage]

" i would like to experiment with a gps engine but have never found a
" source that would sell me just one unit. are there any other places where
" i could inquire about boards,

Garmin sells a GPS engine for about \$300, but you can get them from other places for less. If you have a totally bad time finding one, let me know, I may be able to steer you...

"
" also, i am very interested in DGPS. does anyone have experience with some
" of the available services, especially the DSI system that is piggybacked
" on FM station subcarriers?
"

I've not heard anything about the DSI system. Can anyone enlighten us?
I have been sorely tempted to get a dgps receiver for months, but they're still \$470 and up, from what I can tell! I'd be interested in seeing how we can find/use retransmitted dgps.
" any advice/assistance would be appreciated.
"

John
WN9T

197. Re: [APRSSIG:406] garmin gps 40

From: jgarrett@world.std.com (John Garrett)
Date: Thu, 23 Mar 1995 14:25:49 -0500
To: aprssig@tapr.org
Message-ID: <ziSSlmPA4kcS065yn@World.std.com>
Rendered body type: text/plain

"
"
" ? GPS-40 HANDHELD UNIT
"
" This is a amazing GPS Handheld unit. Cost in the Detroit area is
" \$349.00.. I have heard that in some of the East and West coast
" areas it is now in the range of 299.00.. Weight of 9 ounces.
"
Nope. The GPS 40 is about \$350 on the Right Coast. The GPS45, however,
IS \$299. Removable bnc-connector antenna, 6-24V, NMEA output, ~100 map
datum files, DGPS ready. Clearly the 45 is a better deal, no?

[snip]

" your able to add an remote-mount magnetic active antenna. GPS-40
" has connections for power 5 - 8 vdc, and input/output for data,
" it has NMEA interface capability.
"
" ###
"

John
WN9T

198. Garmin GPS-40 and GPS-45

From: paul@paccomm.com
Date: Thu, 23 Mar 95 14:58:42 UTC
To: aprssig@tapr.org
Message-ID: <1806@paccomm.com>
Rendered body type: text/plain

Hi agn. Well, the prices just put out on the SIG are in error.
In E & B, West Marine and BOAT/US the prices right now are as follows:

Garmin 40	Case, but no data no bracket	\$249
Garmin 45	Case, but no data cable, no bracket	\$298.99

You can add the data cable at \$29.99 or the bracket at \$29.99 at any time.
There's also the GPS-45 WITH cable and bracket at \$345, take your pick!

These prices have been available since the publication of the 1995 catalogues from the above suppliers. To get BOAT/US pricing you must be a MEMBER (i am because my boat insurance is thru them). They WILL check at the check-out (they have to swipe your barcode on your membership card).

All these stores (they have over 150 stores nationwide) will PRICE MATCH, so if one is out of stock (VERY likely), you can go to the next and get the best price. Last time I was in a boat store at lunch time THREE GPS-45's were sold to people while I was there buying a radio!

Footnote: West Marine last year steadfastly said they were continuing to offer and stock LORAN-C units. This catalogue there are NO units to offer at all!!!!!!!!!!!!!!!!!!!! (of course, no comment was made!) Paul.

Paul Evans, W4/G4BKI paul@paccomm.com
+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)
The views expressed in this message are not necessarily those of PacComm.
"I say, Ratty, just because we're staring adversity in the face,
there's no need to forget the rules of grammar"
- Mole, "The Wind in the Willows"
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

199. Re: [APRSSIG:415] Re: gps engines - WHERE???

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Thu, 23 Mar 95 15:12:37 EST

To: aprssig@tapr.org
Message-ID: <9503232012.AA00737@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

I have a Magellan Developed I got 2yrs ago for \$475. (Sure less now).
This is nice as you have access to all commands via the serial port.
calling Magellan and request development kit.

>" I have been lurking on this list for a month or so and have been
>" facinated with the discussions.
>
>Nice to see you Vic. I've been an APRS user for a while, but just
>recently signed on to the list myself
>
>[snippage]
>
>" i would like to experiment with a gps engine but have never found a
>" source that would sell me just one unit. are there any other places where
>" i could inquire about boards,
>
>Garmin sells a GPS engine for about \$300, but you can get them from
>other places for less. If you have a totally bad time finding one, let
>me know, I may be able to steer you...
>
>"
>" also, i am very interested in DGPS. does anyone have experience with some
>" of the available services, especially the DSI system that is piggybacked
>" on FM station subcarriers?
>"
>I've not heard anything about the DSI system. Can anyone enlighten us?
>I have been sorely tempted to get a dgps receiver for months, but
>they're still \$470 and up, from what I can tell! I'd be interested in
>seeing how we can find/use retransmitted dgps.
>" any advice/assistance would be appreciated.
>"
>
>
>John
>WN9T

Bob Baltz
Chesapeake Region Sales
Ph:(410) 987- 8777
Fax: (410) 987-8777
E-mail Bobb@ustc.vlsi.com

200. Re: [APRSSIG:416] Re: garmin gps 40 or 45

From: miles@MAIL.UTEXAS.EDU (Miles Abernathy)
Date: Thu, 23 Mar 1995 14:21:59 -0600
To: aprssig@tapr.org
Message-ID: <v01510107ab97342672e9@[128.83.159.101]>
Rendered body type: text/plain

>" ? GPS-40 HANDHELD UNIT
>"
>" This is a amazing GPS Handheld unit. Cost in the Detroit area is
>" \$349.00.. I have heard that in some of the East and West coast
>" areas it is now in the range of 299.00.. Weight of 9 ounces.
>"
>Nope. The GPS 40 is about \$350 on the Right Coast. The GPS45, however,
>IS \$299. Removable bnc-connector antenna, 6-24V, NMEA output, ~100 map
>datum files, DGPS ready. Clearly the 45 is a better deal, no?

Like Jimmy Carter, I have lust in my heart :-)

201. Agrello postage stamp

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Thu, 23 Mar 1995 09:12:42 -0600
To: aprssig@tapr.org
Message-ID: <199503232230.QAA17929@home.interaccess.com>
Rendered body type: text/plain

Bob,
Thanks for the PTT circuit, Ill put it together this weekend. 6.7a looks
great. High altitude stuff looks super on Y mode.
73
Ed

202. Re: [APRSSIG:393] Re: GPS Boards and Info

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Thu, 23 Mar 1995 17:54:32 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9503231730.A1153-a100000@acme>
Rendered body type: text/plain

RE : GPS World.

I've been getting the magazine for about 18 months and been thru two of their annual product reviews. It is a good quasi technical mag which displays a lot of different project GPS has been used for. They also have an annual Product review Tabloid size issue with mailin info request cards. (PacComm even advertises there, so it must be a good mag).

They also have an annual contest for the most useful/unusual/etc use of GPS, and I've attempted to submit APRS nexy go round. Is it worth the cost of a subscription ? If your heavy into GPS yes.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgeable person about A.P.R.S.

203. Re: [APRSSIG:396] Re: GPS Boards and Info

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Thu, 23 Mar 1995 18:01:56 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9503231853.A1153-a100000@acme>
Rendered body type: text/plain

On Wed, 22 Mar 1995, John Garrett wrote:

> " GPS World
> " P.O. Box 7677
> " Riverton, NJ 08077-7677
> " or call
> " 1-800-949-6526
> "
> I just dialed the 800 # and it was NG from Boston. 800 directory
> assistance has nothing either. Guess its snail mail!
> John
> WN9T

Their E-mail address is mggpsworld@aol.com and their subscription fax number is 1-503-683-8841.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgeable person about A.P.R.S.

204. Re: [APRSSIG:378] APRS MAPS

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Thu, 23 Mar 1995 18:19:33 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9503231831.A1153-c100000@acme>
Rendered body type: text/plain

On Tue, 21 Mar 1995, Robert Bruninga wrote:

> Although this is a hobby, anyone that figures out how to make APRS maps
> easily and efficiently (and that is looking for some extra income to keep
> his HOBBY going) should have no problem selling them. As you can see,
> there is a DEMAND for APRS maps. and the country is BIG!

OH - This is a hobby. Sometimes we forget. And if some find out how to make maps easily and efficient, please let me know.

>
> If you are a student, or retired, or just have time on your hands, you
> will get no objection from me if you want to make APRS maps for hire...
> Unfortunately, once you make them, they sort-of become public, so do NOT
> expect to make royalties after you release it. If you are going to go
> into this business, let us know!

Hmmm - maps for hire... How about if we put in a note asking for donations in an effort to keep the mapping going, kinda like "Shareware"

>
> I suspect tho, since it is very geographically explicit, a repeater or

> local club might be willing to fund the making of a local map for their
> area. Everyone in that area would want it, but NOT too many folks
> outside of the area would.
>

This is true - unless you are seriously into maps, why do a map
unless there is a need or a request (Ever wonder why I stopped doing Ohio
maps and moved on to Mich ????)

> I have found that with a good (BIG) digitizer, that it takes me about 4
> hours to do a 7.5 min map of a reasonably urban area. Less than 2 hours
> to do a more rural area. The only thing you need is for the customer to
> send you the original paper map to digitize.... Figure your time, and I
> would think that some HAM groups might be able to afford your service...

To hand digitize a 30 x 60 min quad map will take anywhere from 3
to 16 hours, depending on the number of curves in the roads and
borders. And rivers/coastlines are a real bear. Buy the maps yourself can
get expensive - the 30 X 60 are \$4.00 @ and I have over 30 of them for Ohio.

> This message is not meant to commercialize or to detract from the grass
> roots public domain concept of APRS maps, but is simply meant to
> encourage anyone with the time to make themselves available to groups
> that need maps.

I'll do maps for GPS units and TNC's - cheap enuf ?

>
> KUDOS and homage to all of those very dedicated APRS map makers who have
> slaved and divorced over these maps! Their contributions without
> remuneration are fantastic!

Dedicated APRS map makers or just plain weird folks. - We are the
ones with trifocal lens and pocket protectors. My XYL would have divorced
me if I didn't do maps. Claims it keeps me out of her way.

> Map making is fun and addicting (look at the efforts of W7KKE, KB8JX0,
> KG8GE, KG0DW, WH6YHC, KU0G and many others listed in MOREMAPS.txt!
>
> Comments anyone???

>
Enuf said. Thanks for the good words Bob. Sometimes we sit out here,
cranking out maps, and wonder if they are being used. I've been thinking
about asking for donations for the maps to help support both the map
making effort and the LLBBS. Let me see \$4.00 for the map, \$1.00 for the
grid sheet, 8 hours avg per map at \$45/hr, times 80 maps completed, hmmmm

REMBER - I WILL DO MAPS FOR GPS/TNC/AMEX/CASH/GREIF/ETC

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgeable person about A.P.R.S.

205. Re: [APRSSIG:410] Re: Initializing PK232

From: "Mike Walker" <mike@va3mw.uucp>
Date: Thu, 23 Mar 1995 14:36:12 -0500
To: aprssig@tapr.org
Message-ID: <2f71cdaf.va3mw@va3mw.uucp>
Rendered body type: text/plain

On Thu, 23 Mar 1995 10:20:41 -0600, "Robert Bruninga" <bruninga@greatlakes.nadn.navy.mil> wrote:

> OK, I give up, how does one change the PK-232 out of "morse" and into
> "packet"??
>
> It is not easy writing software that is compatible with all of the
> in-compatible TNC's out there... and I cant afford to have one of each....
>
> So please when you send me TNC specific ideas, please send me the EXACT
> command structure required to do what you ask... AND be sure you specify
> EVERYTHING required.
>
> Remember, APRS has NO IDEA what mode or condition the TNC may already be
> in... So give me the sequence that will work in ALL CASES (EVERY POSSIBLE
> MODE).. hi hi
>

Bob,

Since there are so many TNC's why don't you have a startup.tnc file (similar to your restore.tnc file), so that we can make changes as required. But in your required settings, but allow the end user to modify some of the other settings. For example, most of my other software for TNC's wants to turn the monitor function off when I exit (DSP-2232), I have to remember to go back and turn the monitor back on (usually after I see the APRS did not see your..... msg).

Just a thought.

BTW, I have the ability to compile this under os/2. Would you be interested. You can drop me a note directly: mwalker@interlog.com

Thanks for all the fun....cheers...mike

--

```
+++++
Mike Walker                               127 High St West
mwalker@interlog.com                     Mississauga, ON
(905) 891-6328                           L5H 1K4 Canada
Ham Radio: va3mw@va3bbs
```

206. Re: [APRSSIG:409] GGA and VTG sentences

From: "Mike Walker" <mike@va3mw.uucp>
Date: Thu, 23 Mar 1995 14:31:14 -0500
To: aprssig@tapr.org
Message-ID: <2f71cc85.va3mw@va3mw.uucp>
Rendered body type: text/plain

On Thu, 23 Mar 1995 09:59:12 -0600, "Robert Bruninga" <bruninga@greatlakes.nadn.navy.mil> wrote:

> I have now had a few reports of APRS/GPS units not showing their course
> and speed when using the GGA and VTG sentences. I watched a local
> driving around, and probably only got course and speed 10% of the time..
>

> Also, there is the report of the PK-12 not showing up with cse/spd.
>

> I need more feedback. processing the VTG and combining it with a GGA from
> the same station is quite involved. As I pointed out before, there are
> over 60 different combinations of GPS-TNC and processing involved.
>

> There are TWO ways for GGA/VTG to be transmitted FROM A STAND-ALONE-TRACKER,
> either combined into one frame with one header, or in separate frames
> with separate headers:
>

> W3XYZ>APRS:\$GPGGA.....CR/LF
> \$GPVTG.....CR/LF
>

> Or:

> W3XYZ>APRS:\$GPGGA.....CR/LF
> W3XYZ>APRS:\$GPVTG.....CR/LF
>

> The single packet version is what I use by placing the TNC in CONVERSE
> mode with SENDPAC changed to NOT be CR, and setting PACTIME to 1 second.
> This makes sure that the two ALWAYS are sent in the same packet. This
> assures that BOTH get through a digipeater together...
>

> The second TWO-PACKET version will probably be the result of most of the
> TNC MANUFACTURES GPS modes... Although there are two separate
> frames, they MUST both be transmitted in the same PACKET in order to be
> digipeated together
>

> APRS holds every GGA or GLL packet for 2 seconds before finally building
> a received position report.. If a VTG comes in within those 2 seconds,
> then it is applied to the same POSIT to give CSE and SPD. If it is
> later, then the VTG is ignored.
>

> If you see any other combo of GGA/GLL/VTG, let me know what TNC and
> configuration is doing it. WAS a digi involved??
> -----
>

> Now, in HSP mode, where the TNC is not involved and APRS is trying to
> read both the GGA and VTG from its own serial port, the same 2 second
> hold applies. In this case, APRS is looking for the raw strings WITHOUT
> packet headers (in fact, that is the only way it knows it is yours vice
> someone elses in HSP mode). Since most GPS units output at at least a 2
> sec rate, APRS should get a GGA/GLL and VTG in that 2 secs....
>

> Recently I did drop the 2 sec period down from 3 secs that it had been

```

> beofre... Maybe that is causing a problem??
>
> SO, IF YOU ARE RUNNING HSP MODE AND YOU DO GET CSE/SPD, let me know.
> If you are NOT gettnig cse/spd also let me know. In both cases tell me
> everything... TNC, HSP switch, APRS version, NMEA RATE! (1 sec,2 sec etc)
>
> REMEMBER that many GPS units do NOT output VTG if you are sitting still,
> so be sure you are moving before gathering your opinion. Also, look at
> the several NMEA strings comming out of your GPS. Tell me the order:
>
> $GPZTG...
> $GPGGA...
> $GPVTG... (APRS assumes that VTG always follows GGA/GLL)
> $GPxxx etc
>
>
> Thanks for your input.

```

Hello Bob,

I reported the standalone problem with the PK-12, and the programmer at AEA (I forget his name) is sending me a new EPROM for the PK-12. I watched the raw data (even at 6.7) and I still am not getting course and speed at my home station when running with and ICOM gps and PK-12 standalone. It seems to work just fine when I use a laptop and HSP.

I'll update you when I receive the eprom from AEA. I will also test the new KPC-3 software when I receive it.

Cheers...mike

--

```

+++++
Mike Walker                               127 High St West
mwalker@interlog.com                     Mississauga, ON
(905) 891-6328                           L5H 1K4 Canada
Ham Radio: va3mw@va3bbs

```

207. Re: [APRSSIG:423] Re: APRS MAPS

From: miles@mail.utexas.edu (Miles Abernathy)
Date: Thu, 23 Mar 1995 18:06:01 -0600
To: aprssig@tapr.org
Message-ID: <v01510102ab97bcaa76fb@[128.83.128.61]>
Rendered body type: text/plain

```

>> Although this is a hobby, anyone that figures out how to make APRS maps
>> easily and efficiently (and that is looking for some extra income to keep
>> his HOBBY going) should have no problem selling them. As you can see,
>> there is a DEMAND for APRS maps. and the country is BIG!

```

Any chance the folks who publish those CD-ROM's with street / highway maps of the USA would license their intellectual property to hams cheap? (to cheap hams? :-)

Miles Abernathy, University of Texas, POB 7580, Austin TX 78713 U.S.A.
miles@mail.utexas.edu N5K0B tel. 512-471-6521 Hook 'em Horns!

208. Re: [APRSSIG:426] Re: APRS MAPS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 23 Mar 1995 19:26:29 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503240126.TAA13048@solar.cs.tamu.edu>
Rendered body type: text/plain

Miles Abernathy sez:

```

>
>> Although this is a hobby, anyone that figures out how to make APRS maps
>> easily and efficiently (and that is looking for some extra income to keep
>> his HOBBY going) should have no problem selling them. As you can see,
>> there is a DEMAND for APRS maps. and the country is BIG!
>
> Any chance the folks who publish those CD-ROM's with street / highway maps
> of the USA would license their intellectual property to hams cheap? (to
> cheap hams? :-)

```

If you're talking about StreetAtlas, MapExpert, etc., from DeLorme, no chance. They cannot see how the data might make 'em any money thru bulk!

Couple of us down this way have tried. If anyone else has had significant success with 'em, please let me know.

73, gerry N5JXS
gerry@cs.tamu.edu

209. Re: [APRSSIG:410] Re: Initializing PK232

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 23 Mar 1995 20:31:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9503232013.A19857-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

The PK232 is placed in the packet mode by typing PACKET while at the cmd line. I'm not aware how APRS sets up or initializes the TNC. It must be a challenge to cope with the vagaries of all of the TNC products. The PK232 is of course among the most popular.

When its battery is installed (as mine is), the PK232 remembers the mode it was in when it was turned off. It has many modes of course: PACKET, MORSE, AMTOR, RTTY, FAX, CAL, and on and on. Most programs written for it provide menu options for changing modes. Of course only PACKET is useful for APRS.

After I boot APRS, I sequence Operations/Comm/TNC and then simply type 'packet' at the cmd prompt. I notice that, during the boot, APRS sends a number of initialization commands to the TNC. I was simply suggesting that PACKET be among the commands.

It's no big deal either way. It is a simple task to manually set the mode. Sometimes however I boot and leave the shack. On these occasions, the PK232 is not functioning on packet until I return to complete the setup.

regards,

KB4XE

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

210. F9 Bug Report

From: K2ADJ@aol.com
Date: Thu, 23 Mar 1995 23:40:11 -0500
To: APRSSIG@tapr.org
Cc: Bruninga@greatlakes.nadn.navy.mil
Message-ID: <950323234010_59464096@aol.com>
Rendered body type: text/plain

Yes, Mr.Bruninga, I think I found a buggie in v6.7a...

I hit F9 to show everyone in the Positions listing and it displayed the map of the USA from the East Coast to about Arizona displaying everyone that it had heard.

I then hit "Y" to see if anyone was HIGH and found no one had been drinking but did notice that there were some objects, houses and cars, floating around the Los Angeles area.

I then hit "Y" and then F9 again and still those folks in Californy did not show up, that portion of the map was NOT shown.. I then moved the cursor further west and hit HOME and now they all showed up..

When I hit F9, why were those folks in Californy not taken into consideration in calculating the map to display?

73 Bob, de Rod

211. Re: [APRSSIG:421] Re: GPS Boards and Info

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Fri, 24 Mar 95 06:12:12 UTC
To: aprssig@tapr.org
Message-ID: <1827@paccomm.com>
Rendered body type: text/plain

> KB8JX0 wrote, in part:

>

>They also have an annual contest for the most useful/unusual/etc use of
>GPS....

Last year the top ten entries included two that involved RF communication.

PacComm was the unmentioned supplier of the comms gear in both cases.

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org
+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

212. Re: [APRSSIG:426] Re: APRS MAPS

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Fri, 24 Mar 95 06:20:26 UTC
To: aprssig@tapr.org
Message-ID: <1828@paccomm.com>
Rendered body type: text/plain

I think the maps from Klynas Engineering are about \$100 per county. Is that cheap?

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org
+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

213. Re: [APRSSIG:380] Re: APRS MAPS

From: Emmet2@aol.com
Date: Fri, 24 Mar 1995 08:12:52 -0500
To: aprssig@tapr.org
Message-ID: <950324080424_59688253@aol.com>
Rendered body type: text/plain

With all this talk of maps I wanted to add my two cents worth. APRS is not yet big in our area. For awhile we had a ham who was keeping it going, but he retired from the Navy and moved to the mid-west. Now there is slight interest, but nothing full-time in operation. Personally I am most interested in it from a couple of perspectives. First, I am interested in weather, so a full-time weather reporting net would be nice. Second, our local club supports a few local events (ie races) for which APRS tracking would be nice. Third, and most important is Foxhunting (one of my real loves in the hobby). I would love to get a very detailed road map of my county so that even a foxhunter without a gps could specify a location (click/point to it on the map) fairly accurately and input a manual RDF report. Most of the hams around here can't afford the fancy equipment for a fully automated station, so we would need to be able to start with minimal automation and add things slowly.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

214. aprs 6.7a

From: ac235@detroit.freenet.org (Gerald Gomes Jr.)
Date: Fri, 24 Mar 1995 08:20:27 -0500
To: aprssig@tapr.org
Message-ID: <199503241320.IAA13014@detroit.freenet.org>
Rendered body type: text/plain

looking for internet source for APRS 6.7a. I have checked out muncey.com and oak.oakland.edu of which neither of which have anything later than 6.6 please leave message here or at ac235@147.240.63.150 thank you
73 gerry wb8rny romulus, michigan

215. OOPS. bug in MAPFIX67

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 24 Mar 1995 09:29:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950324091850.8543A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Went to do a map of NYseast last night and after doing the whole CDR0M 2,000,000 extract procoess, I found out that the CTRL-SAVE function just would not work. COuldnt save the file! The problem is that I had changed the main KEYBOARD COMMAND parser from IF THEN statements to SELECT CASE statements. The problem is simple... Move the following two lines which act on the CTRL-S and CTRL-C characters from line 326/7 back up to the

previous SELECT CASE BLOCK around line 262....

```
CASE CHR$(19):.....  
CASE CHR$( 3):.....
```

SORRY, I was trying to condense the code.. I also notice that the NEW non-destructive CURSOR leaves cursor artifacts on the screen. It doesnt mess anything up, but is just anoying... Ill try to fix that soon...

The beautiful thing about QBASIC, is that when I found that I could not save an hours worth of work, I simply used the BREAK key, looked at the code, moved the two lines where they should be, and then hit F5 to resume. Then the save worked properly. Actually, I had QUIT the program which meant that if I hit F5, everything would be lost as the program started over again. In that case, i used the IMMEDIATE window (F6) and simply executed a GOTO MAIN which jumped into the middle of the program and allowed me to continue with the existing map data....

216. Re: [APRSSIG:412] Re: Initializing PK232

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 24 Mar 1995 09:34:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950324093120.8543B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 23 Mar 1995, Thomas Griffin - x7792 wrote:

> How about adding a "setup.tnc" file to APRS. Then TNC specific commands
> could be sent to get the TNC in the desirable state prior to APRS making
> assumptions about the TNC.

ANSWER: I was within an hour or two of putting that in version 6.7. So consider it done for the next version. Lots have wanted it, and now I need to do it, just to get the text strings out of the program...
The files will probably be named INITTAPR.sys, or INITAEA.sys, etc...

217. Re: [APRSSIG:414] The Y command

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 24 Mar 1995 09:41:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950324093643.8543C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 23 Mar 1995 kinahan@ws007-fddi.bytex.network.com wrote:

>

> I snarfed a copy of APRS6.7 the other day and had a blast just playing the
> balloon and plane history files with the Y command on.

REPLY: Too bad I forgot to add altitude to the SHUTTLE.HST file! Im going to do that today and include it in the next APRS release. You can do it yourself, simply use a TEXT EDITOR and add /A=999000 to the end of the ST599 positis in the file (the altitude functino is limited to 6 chars). Do not use 999999 since I may have a test in there that says the altitude must be less than 999999 (meaning 999998 is the largest permissible value) and actually, 1 million feet is about right for 200 mile orbit!

218. Re: [APRSSIG:426] Re: APRS MAPS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 24 Mar 1995 11:25:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950324112121.9489B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 23 Mar 1995, Miles Abernathy wrote:

> Any chance the folks who publish those CD-ROM's with street / highway maps
> of the USA would license their intellectual property to hams cheap? (to
> cheap hams? :-)

REPLY: No. Thats what made me do APRS in the first place. For three years I tried to find a commercial supplier of ROM maps that would permit me to write a program (APRS) that would use their maps WITHOUT any royalty problems. Sure, I could do it for a licensing fee, but they then claimed rights to ANY/ALL maps. I wasnted maps in the public domain, and they couldnt agree to that.

I still hope someone can figure out how to read those maps, and then

write a conversion into APRS format. Then we could tell folks to go buy their \$65 database ROMS and generate their own maps for their OWN use...

219. Re: F9 Bug Report

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 24 Mar 1995 11:36:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950324112757.9489D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 23 Mar 1995 K2ADJ@aol.com wrote:

> I hit F9 to show everyone in the Positions listing and it displayed the map
> of the USA from the East Coast to about Arizona displaying everyone that it
> had heard.
>
> I then hit "Y" to see if anyone was HIGH and found no one had been drinking
> but did notice that there were some objects, houses and cars, floating around
> the Los Angeles area.
>

REPLY: There are two things going on here. First, the F9 key tries to make the largest possible map to include all stations. I think it is erring a little bit and may leave out a few stations on the edge. I can increase the cut-off point, but that will guarantee a 50% reduction in the map size (since APRS only ZOOMS by a factor of 2). I have noticed this problem in the Carribean where several contacts just about 1 line below the bottom line should be there, but do not appear.

Second, in 3D mode, even if you are looking at a 8 mile MAP in 2d, when you squish the perspective down to 3D, you can still see infinitely to the NORTH. Since the given MAP you are using does not go all the way to the NORTH pole, there is a gap between the "visual" horizon and the north edge of your map. I noticed that VE2JOR (500 miles north in Canada) would always appear to be FLYING even when I was zoomed to 8 miles locally here. In 6.7a (or is it b that I am working on now..) I have modified the 3D display to NOT display any stations, calls, or map labels that are more than about 2 map scales NORTH of your current 2D map. If I had variable FONTS and SYMBOL size, then I could display them, but vanishingly small, so that you could tell they weren't flying, but were just an infinite distance away....

220. Where to Get 67 from the Internet

From: eashway@VNET.IBM.COM
Date: Fri, 24 Mar 95 13:11:13 EST
To: aprssig@tapr.org
Message-ID: <199503241821.MAA09104@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

I was successful at FTPing both 66to67.zip and 67to67a.zip from FTP.TAPR.ORG yesterday afternoon. They are in the following directory:

TAPR/SIG/APRSSIG/UPLOAD

Both unpacked and I am up and running on 67a.

Ed - W9KTH

221. Re: [APRSSIG:437] Re: APRS MAPS

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 24 Mar 1995 14:00:34 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9503241321.C16136-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Perhaps you could be interested in my approach to creating APRS maps:

I own the PRECISION MAPPING CDROM. One of its features is that it annotates the latitude and longitude of the cursor (mouse) position. For my locality (Broward County, FL.) I pinpointed key streets noting and jotting their position as a scrolled thru the county. I acquired coordinate info for about 20 main highways which were not given in Bob's version of FLSOUTH.MAP. I used the MAPFIX.BAS program to edit that map and saved it as FLSEAST.MAP. The whole process took about 45 minutes.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Fri, 24 Mar 1995, Robert Bruninga wrote:

```
>
> On Thu, 23 Mar 1995, Miles Abernathy wrote:
>
> > Any chance the folks who publish those CD-ROM's with street / highway maps
> > of the USA would license their intellectual property to hams cheap? (to
> > cheap hams? :-)
>
> From Bob:
> I still hope someone can figure out how to read those maps, and then
> write a conversion into APRS format. Then we could tell folks to go buy
> their $65 database ROMS and generate their own maps for their OWN use...
>
>
```

222. NYCityLI.map | Beeping

From: Jess Girard <girard@panix.com>
Date: Fri, 24 Mar 1995 14:55:05 -0500 (EST)
To: APRS Sig <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950324144738.18161A-100000@panix.com>
Rendered body type: text/plain

Hi All:

I found out why I couldn't see the NYCityLI.map. It's rem'd out in aprs.map. I removed the asterisk and it jumped right up when I looked for it. It was in the right place as far as its sequence was concerned, btw.

Thanks to all those who suggested what to do. I appreciate your help. As the saying goes, "when all else fails, read the manual". Sigh...

Re Beeping: As soon as I entered my Validation number, all beeping stopped. That was in v.6.6 and it's the same way in v.6.7a. Bob, was it simply a gentle reminder?

Jess nd1l

223. GPS

From: Emmet2@aol.com
Date: Fri, 24 Mar 1995 21:09:36 -0500
To: aprssig@tapr.org
Message-ID: <950324210932_60384902@aol.com>
Rendered body type: text/plain

I finally got out there and purchased a Garmin 40 (they were out of 45s and I actually didn't like the antenna on the 45 that much).

Now the only question that remains is what is the best means of connecting the GPS up to my Powerbook 520 (single serial port) and the KPC-3. We have had these discussions a little in the past, but I am still a little hazy here.

1. Can someone describe the cable configuration from the GPS to the computer/tnc?
2. What is the cheapest/easiest way to get there (connected) from here (Powerbook 520, KPC-3, Garmin-40)? [Keep in mind that money _is_ an object here.]

We are having a foxhunt this weekend, it would be nice to be able to send APRS info during the hunt. I haven't tried this, I wonder if it is possible to manually input not only the RDF data but the location it was received from (without manually inputting your location first)...

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

224. Re: [APRSSIG:416] Re: garmin gps 40

From: Emmet2@aol.com
Date: Fri, 24 Mar 1995 21:09:41 -0500
To: aprssig@tapr.org

Message-ID: <950324210935_60384934@aol.com>

Rendered body type: text/plain

<<

Nope. The GPS 40 is about \$350 on the Right Coast. The GPS45, however, IS \$299. Removable bnc-connector antenna, 6-24V, NMEA output, ~100 map datum files, DGPS ready. Clearly the 45 is a better deal, no?

>>

Yup, the stats on the 40 are similar. No removable antenna, but there is a plug on back for an external antenna. The input voltage needs to be 5-8v, but their cable automatically steps it down to that range from 12v. The helical antenna on the 45 is supposed to be a little more sensitive, but is also more vulnerable to damage. All other stats seem to be the same between the two. Nice units. The 45 is also real popular with boaters, so there is a waiting list anywhere you go (the place I bought my 40 called around 5 places to see if any had one in stock, all were sold out)!

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- President of Thames River Apple Users Group
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- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

225. Re: [APRSSIG:412] Re: Initializing PK232

From: Rod Proctor <rproctor@u.washington.edu>

Date: Fri, 24 Mar 1995 18:29:29 -0800 (PST)

To: Thomas Griffin - x7792 <griff@SSD.intel.com>

Cc: aprssig@tapr.org

Message-ID: <Pine.ULT.3.91a.950324182444.11498A-100000@akbar.u.washington.edu>

Rendered body type: text/plain

Many authors use two files. The first is a startup file with the commands necessary to get the specific TNC into the mode they want to deal with. The second is an exit file that resets the TNC to a mode that is compatible with the next use of the TNC. You as the authors tell the users how to edit these simple files and the users put in their specific startup and exit command strings.

On Thu, 23 Mar 1995, Thomas Griffin - x7792 wrote:

```
> How about adding a "setup.tnc" file to APRS. Then TNC specific commands
> could be sent to get the TNC in the desirable state prior to APRS making
> assumptions about the TNC. Just my $.02 worth.
>
>
> 73, Thomas (Griff) Griffin, N7ZKL
> Beaverton, Oregon, USA
> Internet: n7zkl@amsat.org
> Packet: n7zkl@k7iqi.or.usa.na
>
> > OK, I give up, how does one change the PK-232 out of "morse" and into
> > "packet"??
> >
> > It is not easy writing software that is compatible with all of the
> > in-compatible TNC's out there... and I cant afford to have one of each....
> >
> > So please when you send me TNC specific ideas, please send me the EXACT
> > command strcuture required to do what you ask... And be sure you specify
> > EVERYTHING required.
> >
> > Remember, APRS has NO IDEA what mode or condition the TNC may already be
> > in... So give me the sequence that will work in ALL CASES (EVERY POSSIBLE
> > MODE).. hi hi
>
```

226. Re: Mac Single Port

From: sdimse@umcd.med.miami.edu (Steven S. Dimse)

Date: Sat, 25 Mar 95 4:57:02 EST

To: aprssig@tapr.org

Message-ID: <9503250957.AA21815@umcd.med.miami.edu>

Rendered body type: text/plain

>

> I finally got out there and purchased a Garmin 40 (they were out of 45s and I
> actually didn't like the antenna on the 45 that much).

>

> Now the only question that remains is what is the best means of connecting
> the GPS up to my Powerbook 520 (single serial port) and the KPC-3. We have

> had these discussions a little in the past, but I am still a little hazy
> here.
>
> 1. Can someone describe the cable configuration from the GPS to the
> computer/tnc?
>
> 2. What is the cheapest/easiest way to get there (connected) from here
> (Powerbook 520, KPC-3, Garmin-40)? [Keep in mind that money _is_ an object
> here.]
>
> We are having a foxhunt this weekend, it would be nice to be able to send
> APRS info during the hunt. I haven't tried this, I wonder if it is possible
> to manually input not only the RDF data but the location it was received from
> (without manually inputting your location first)...
>
> - Chip Griffin aka Granite
> - President of Thames River Apple Users Group
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> = Emmet2 (America Online) = emmet2@aol.com (internet)
> = N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)
>
>

I'm not sure if this can be done in the same manner on the Mac as the PC. The comm toolbox does not allow direct toggling of the RS-232 lines, indeed there is no reason for the program to even assume that a connection is based on an RS-232 line at all. An idea I had toyed with a long time ago was using the 'push button method' Bob describes in his doc, where the user pushes a button every time the position is to be updated. My idea was to drive this with a timer circuit in place of the push button, to allow a more seamless flow of data, but it would still require a mod of MacAPRS to take GPS and TNC data over the same port. Perhaps Keith will talk about the possibilities...

I took a more brute force approach. I bought the SerialWay unit, which places 3 serial ports on LocalTalk. I connect the LocalTalk with the PB520c, and then I can access all three ports from the PowerBook. Of course this unit cost \$600, so this solution isn't for everyone, but it works GREAT. Another idea I tried was using the PortShare program to link my PB100 with my PB520c via ethernet, and TNC to one computer and the GPS to the other. This also worked, but required me to leave the PB100 in the van. Between the EtherNet connections and PortShare (\$150) this would be even worse for most people than the SerialWay!

BTW, if you are thinking of using the PC APRS with SoftPC, I can tell you this probably won't work either. Despite many protests, insignia has not done a complete job on the serial port simulation, and hardware handshaking, which is needed for PB/PG satellite program, doesn't work.

Sorry I can't be more optimistic.

73 de Steve K04HD

sdimse@umed.med.miami.edu

227. New stuff and fixes

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sat, 25 Mar 1995 10:44:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950325103957.16212B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I fixed the in-ability to save a MAP in the MAPFIX67.bas program and also the extraneous cursors. This program is posted as MAPFIXED.bas since the name MAPFIX67b will not fit....

Also I improved the SUMMARIZ.BAS so that it zooms through only the new TKxxxx.HST files and BKxxxx.BK files to build a total file of ALL calls heard by your station. Before, it would always process EVERY file in your HSTS and BAKS directory, and that was a waste. This way, you use it to scan all new TK and BK files, before you delete them. so you can pick up any new calls and add them to your ALLBAKS.hst and ALLHSTS.hst files.

I also compiled the SUMMARIZ.EXE.

Also posted a NYseast.MAP

228. Re: [APRSSIG:433] aprs 6.7a

From: jgarrett@world.std.com (John Garrett)
Date: Fri, 03 Mar 1995 20:02:47 -0500
To: aprssig@tapr.org
Message-ID: <tmxLlmPA4cbP065yn@World.std.com>
Rendered body type: text/plain

"
"
" looking for internet source for APRS 6.7a. I have checked out muncey.com and
" oak.oakland.edu of which neither of which have anything later than 6.6
" please leave message here or at ac235@147.240.63.150 thank you
" 73 gerry wb8rny romulus, michigan
"

ftp to ftp.tapr.org. I forget the directory.

John
WN9T

229. Mailing list- Unsubscribe

From: pjdardis@awod.com (Paul Dardis)
Date: Sat, 25 Mar 95 13:19:06 EST
To: aprssig@tapr.org
Message-ID: <9503251819.AA24422@sumter.awod.com>
Rendered body type: text/plain

Gentlemen,

Please remove me from the mailing list.

Unsubscribe aprssig@tapr.org <Paul Dardis>

230. Re: [APRSSIG:447] Re: aprs 6.7a

From: Jess Girard <girard@panix.com>
Date: Sat, 25 Mar 1995 14:53:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950325145148.19213A-100000@panix.com>
Rendered body type: text/plain

Note: You can also find aprs67.exe and 67to67a.exe at ftp.ucsd.edu in hamradio/packet/tcpip/incoming.

Jess

231. Re: [APRSSIG:445] Re: Mac Single Port

From: rtm@newton.apple.com (Bob Martin)
Date: Sat, 25 Mar 1995 16:37:42 -0800
To: aprssig@tapr.org
Message-ID: <v02110100ab9a64a23ed4@[17.130.21.57]>
Rendered body type: text/plain

>>
>> I finally got out there and purchased a Garmin 40 (they were out of 45s and I
>> actually didn't like the antenna on the 45 that much).
>>
>> Now the only question that remains is what is the best means of connecting
>> the GPS up to my Powerbook 520 (single serial port) and the KPC-3. We have
>> had these discussions a little in the past, but I am still a little hazy
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>> 1. Can someone describe the cable configuration from the GPS to the
>> computer/tnc?
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>> (Powerbook 520, KPC-3, Garmin-40)? [Keep in mind that money _is_ an object
>> here.]
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>> to manually input not only the RDF data but the location it was received from
>> (without manually inputting your location first)...
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>> = Emmet2 (America Online) = emmet2@aol.com (internet)
>> = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

If you're using the KPC-3 with a powerbook, here's a trick you might be interested in. Since the KPC-3 uses so little power (less when you give it the LED

73-

232. HELLPPP!!!! SKYWARN/WX

Barry Leonard N9VJQ
n9vjq@aol.com

233. Re: Garmin 45

```
$PGRMZ,10289,f,3*19      <<<<<<<<<<<<<This is the line with ALT. note the  
10289  
$PGRMM,WGS 84*06  
$GP RTE,1,1,c,0*07  
$GPRMC,024400,A,4123.846,N,07326.405,W,033.8,285.9,260395,014.0,W*7B  
$GPRMB,A,,,,,,,,,,V*71  
$GPGGA,024400.4123.847,N,07326.407,W,1.00,2.0,3136.1,M,-33.8,M,. *4F
```



```
$GPGSA,A,3,,,,,,,,,,,,,5.2,2.0,3.0*34
$GPGSV,2,1,08,04,54,056,48,05,39,265,46,07,22,132,42,16,37,209,45*7C
$GPGSV,2,2,08,18,26,073,43,20,22,308,42,24,68,323,50,29,13,044,39*7C
$PRME,15.0,M,22.5,M,15.0,M*1B
$GPGLL,4123.848,N,07326.413,W,024401,A*3D
```

I put the 45 into Simulator mode and entered the 10289 feet. There doesn't appear to be any ALT info on the GGA line at all. I don't seem to be able to set the POSit time to 10 sec rate and have it actually do it that often. I see the screen flash indicating a new GPS update but I don't see a change on the screen most of the time. Any idea on this.
I talked to some other users of the 45 and they seem to have the same problems.

There are 2 NEMA modes on the 45 that are 4800. NEMA 0183 2.0 AND NEMA 0183 1.5. The strings from the 2.0 version are shown above the 1.5 version seems to be smaller in the total number of lines and freq of the update. You also seem to get the track vector line in the 1.5 mode and not in the 2.0 mode.

```
//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd
```

234. Re: [APRSSIG:450] Re: Mac Single Port

From: Emmet2@aol.com
Date: Sat, 25 Mar 1995 23:48:12 -0500
To: aprssig@tapr.org
Message-ID: <950325234811_61333906@aol.com>
Rendered body type: text/plain

Thanks for that info ... I will certainly look to trying that, especially since I have two batteries on the PB. I now have a KPC-9612 for home use, so my KPC-3 is pretty much exclusively for mobile/portable use ... so the alternate power method would be nice. Now if I can link this with my GPS I will have a mega-mobile APRS tracking station ...

I saw another device, called a Port Juggler, in MacUser as I scanned through it tonight. I will let you all know more as I find more out (they have a fax back number I plan on trying out after I am done reading/replying to messages).

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

235. Gettin' up n' Runnin...

From: JeffS5@aol.com
Date: Sun, 26 Mar 1995 02:51:56 -0500
To: aprssig@tapr.org
Message-ID: <950326025154_61427084@aol.com>
Rendered body type: text/plain

Hello All,
I've been interested in APRS for quite a while now and have been subscribed to this listserve for several months now. I have all equipment and have had earlier versions up and running with no problems at all. Now it's time to interface my GPS-75. Is there anything published that can be found on AOL or sent via E-Mail with pinouts and whatever information to make this painless? I'm planning a trip from Santa Clarita (North L.A. County) to Missoula Montana in late June and plan on taking the toys.

Also, I find very little APRS activity in the L.A. area. Is there a APRS calling channel in this area in use? Last time I played with this stuff the only activity was a few locals within about 10 miles of my QTH. I expected a little more interest considering the population!

Any help will be appreciated.

Thanks, Jeff Staigh - WA6EQU

Packet: WA6EQU@K6VE
E-Mail: WA6EQU@aol.com

APRS: 34x 26' 23.8" N, 118x 29' 08.4" W

236. Re: [APRSSIG:453] Re: Mac Single Port

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Sun, 26 Mar 95 7:22:32 EST
To: aprssig@tapr.org
Message-ID: <9503261222.AA26436@umed.med.miami.edu>
Rendered body type: text/plain

>
> I saw another device, called a Port Juggler, in MacUser as I scanned through
> it tonight. I will let you all know more as I find more out (they have a fax
> back number I plan on trying out after I am done reading/replying to
> messages).
>
PortJuggler lets you pick one of three inputs to the serial port. It
does not allow you to use more than one at a time.

237. Re: [APRSSIG:451] HELLLPPP!!!! SKYWARN/WX

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Sun, 26 Mar 95 7:33:05 EST
To: aprssig@tapr.org
Message-ID: <9503261233.AA26468@umed.med.miami.edu>
Rendered body type: text/plain

>
> I was asked to appear for a presentation of APRS as a Severe Storm Warning
> option this Thursday night at the Dupage Co.(IL) EOC.
>
...
>
> What I'm asking for is ammo for what I expect to be a negative question
> session. I expect to be asked how hams are going to run the system and at
> the same time guarantee that it will not be abused (yeah, I know, they're no
> guarantees). I need as many examples of APRS/Skywarn as I can get,
> especially ones endorsed by governmental agencies. I also would appreciate
> any NWS adoption or even recognition of APRS as a WX asset. Any established
> policies and procedures would also be appreciated, so as to draw on the
> experiences of others and not to reinvent the whole system from scratch.
>
I've been talking to the ham responsible for designing the ham station
in the new National Hurricane Center under construction in Miami.
According to him (KI4T), there will definitely be a full time HF APRS
station there. Bob Sheets, the present director, is apparently very
impressed with APRS, and has even expressed an interest in placing
HF/VHF gateways aboard the Hurricane Hunter airplanes to digi ground
reports from boaters in the regions around hurricanes. This latter item
is only a possibility, dependent upon RFI considerations, as well as the
opinions of the incoming director. Hope this helps you.

73 de Steve K04HD

sdimse@umed.med.miami.edu

238. MacAPRS & RDF

From: Emmet2@aol.com
Date: Sun, 26 Mar 1995 09:21:10 -0500
To: aprssig@tapr.org
Message-ID: <950326092107_61504180@aol.com>
Rendered body type: text/plain

I was trying to run an experiment today and had no luck. I wanted to see how
well the RDFing worked using MacAPRS. It didn't! I was expecting it to plot
the information on the screen, but it didn't. I could see the information
there on the bottom of the screen, but it didn't plot anything. We should
see a line from the lat/lon given in the direction offered (beyond edge of
map). I thought it would be nice to use APRS for combined foxhunting, but it
seems that won't work since you would still have to manually plot it (meaning
it would be easier to just use voice transmissions).

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

239. Re: [APRSSIG:455] Re: Mac Single Port

From: Emmet2@aol.com
Date: Sun, 26 Mar 1995 09:29:47 -0500
To: aprssig@tapr.org
Message-ID: <950326092913_61507441@aol.com>
Rendered body type: text/plain

```
<<
PortJuggler lets you pick one of three inputs to the serial port. It
does not allow you to use more than one at a time.
>>
```

That might still work, especially if Keith offered an ability to configure for it within the program. Then you could have it switch and poll between each of the items. If I'm not mistaken, the TNC should be able to be 'paused' with a flow command while it is 'offline' so that no pertinent information is lost.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

240. Where's everyone?

From: wnolle@fly.HiWAAY.net
Date: Sun, 26 Mar 95 09:00:25 CST
To: aprssig@tapr.org
Message-ID: <Chameleon.950326091739.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

I would like to see all APRS users publish the frequency they operate on. This could be done by State & County i suppose. I would like to see a list so when i swing my beam to a specific area that i know has some APRS activity that i will know where to look and what frequency. I have been able to coordinate 145.790 here in North Alabama, but i think many accross the country have not been able to coordinate that frequency and are scattered all over. We as APRS users should be able to tell (Specially when traveling) the frequency for a certain area, more or less like a repeater map. I have made a repeater map of all repeaters located in Alabama, why could this not be done for APRS users. I'm willing to except the task of producing such a map for APRS but collecting the information may not be as easy as it was for voice repeaters!. If there are any APRS users or groups out there that have any ideas about this let me hear about it (Good or Bad). Before flooding me with information let's come up with a format Hi Hi. Give me your input on this.
---==<< Bill KE4EER >>==---

241. Michigan Maps

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 26 Mar 1995 10:37:07 -0500 (EST)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9503261007.A1860-b100000@acme>
Rendered body type: text/plain

I've just complete a 3 month project that mapped the southern 1/3 of the State of Michigan. These maps are based off of the USGS 1:100,000 (30'x60') maps. For the most part these are just the 30x60's, but I have done some map joining for the Grand Rapids and Detro Metro Area. These maps have the State and Federal Highways, county lines and airfield/airport locations on them. The maps also include the western tip of Ontario adjacent to Mich. The only part that is not included is the far SW tip which would be covered by the South Bend IN/MI map.

I've tried something different with these maps. Instead of marking the locations of small towns with yellow lines, I used the box symbol and placed the box in the center of the town. This make the maps sizes smaller, for faster redraws, but the locations will dissappear if the labels are turned off. The same it true for the airfields.

The map file is called MIMAPS01.ZIP and can be found on both the ARN LLBBS in Md., as well as my own LLBBB at the phone number on my tag line. See you all in Dayton.

! WILL DO MAPS FOR GPS's - TNC's - SHITS & GRINS !

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

242. Re: [APRSSIG:459] Where's eve...

From: K2ADJ@aol.com
Date: Sun, 26 Mar 1995 15:11:44 -0500
To: aprssig@tapr.org
Message-ID: <950326151142_61732799@aol.com>
Rendered body type: text/plain

Hi Bill,

All I can say is what I see here on my screen...From Virginia North through Maryland, Delaware, Eastern PA, NJ, NYC area, Long Island and Connecticut, it is all on the the frequency of 145.79...

I have learned that EMASS and Rhode Island are on 145.77..

So, if you go mobile and head up for Yankee Land, you better have your system on 145.79 if you want to see anyone, hi.

Take care and have fun.. 73 de Rod

243. Magellan GPS

From: LarryVideo@aol.com
Date: Sun, 26 Mar 1995 20:47:11 -0500
To: aprssig@tapr.org
Message-ID: <950326204709_62020636@aol.com>
Rendered body type: text/plain

Is anyone using the Magellan Trailblazer GPS unit? And if so I am very interested in the system it is being used on and how well it is working. I am new to this SIG, but very interested in the use of APRS for SAR.

Larry Dunn

244. APRS 6.7a

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Mon, 27 Mar 1995 03:39:50 -0800
To: aprssig@tapr.org
Message-ID: <199503271139.DAA04276@ix2.ix.netcom.com>
Rendered body type: text/plain

Bob, V6.7a w/my KPC-3 does not display my outgoing packet at the bottom of the map display ..only my digipeated packets are displayed. Is it me or did something change in the last couple releases? I've moved and have poor digipeater coverage here on Ft Meyer and find that feature sorely missed as I hunt for a good path into the network.

73 de Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

245. Re: [APRSSIG:451] HELLLPPP!!!! SKYWARN/WX

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 27 Mar 1995 07:20:41 -0500 (EST)
To: N9VJQ@aol.com
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9503270705.A19408-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Congratulations on the excellent opportunity to promote HR. Have you considered having the RACES and/or ARES organizations coordinate the activity?

de,
KB4XE
(ARRL ATC - S. Fl. Section)

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Sat, 25 Mar 1995 N9VJQ@aol.com wrote:

> I was asked to appear for a presentation of APRS as a Severe Storm Warning
> option this Thursday night at the Dupage Co.(IL) EOC.
>
> I think that one of their main concerns is that the APRS system is totally in
> the hands of non-governmental people. And while they're willing to let hams
> assume the WX spotter role, adopting APRS, an amateur radio computer program,
> takes the warning system out of governmental hands.
>

> What I'm asking for is ammo for what I expect to be a negative question
> session. I expect to be asked how hams are going to run the system and at
> the same time guarantee that it will not be abused (yeah, I know, they're no
> guarantees). I need as many examples of APRS/Skywarn as I can get,
> especially ones endorsed by governmental agencies. I also would appreciate
> any NWS adoption or even recognition of APRS as a WX asset. Any established
> policies and procedures would also be appreciated, so as to draw on the
> experiences of others and not to reinvent the whole system from scratch.
>

246. Re: [APRSSIG:457] MacAPRS & RDF

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Mon, 27 Mar 1995 07:47:02 -0800
To: aprssig@tapr.org
Message-ID: <199503271547.HAA15865@archimedes.vislab.navy.mil>
Rendered body type: text/plain

>I was trying to run an experiment today and had no luck. I wanted to see how
>well the RDFing worked using MacAPRS. It didn't! I was expecting it to plot
>the information on the screen, but it didn't. I could see the information
>there on the bottom of the screen, but it didn't plot anything. We should
>see a line from the lat/lon given in the direction offered (beyond edge of
>map). I thought it would be nice to use APRS for combined foxhunting, but it
>seems that won't work since you would still have to manually plot it (meaning
>it would be easier to just use voice transmissions).
>

>- Chip Griffin aka Granite
>- President of Thames River Apple Users Group
>- SysOp of The Quarry LLBBS (203-889-6427)
>= Emmet2 (America Online) = emmet2@aol.com (internet)
>= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

Did you turn on the "Display Course and Speed Vectors" under the "Display"
menu? You may also have to do a "Clear and Redraw" to get them to show...

73, jan
kc6uth

247. Re: [APRSSIG:455] Re: Mac Single Port

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Mon, 27 Mar 1995 07:39:51 -0800
To: aprssig@tapr.org
Message-ID: <199503271539.HAA15816@archimedes.vislab.navy.mil>
Rendered body type: text/plain

>>
>> I saw another device, called a Port Juggler, in MacUser as I scanned through
>> it tonight. I will let you all know more as I find more out (they have a fax
>> back number I plan on trying out after I am done reading/replying to
>> messages).
>>
>PortJuggler lets you pick one of three inputs to the serial port. It
>does not allow you to use more than one at a time.

My father has a device called an Axion that works fairly nicely. It
interfaces with the Mac Comm Toolbox, and switches electronically depending
on what application wants to talk to which serial port. It has 3 ports and
takes its power from the serial port. Unfortunately, it has a conflict
with MacTCP and we can't use it to dial in to our Internet provider :-(
Also, I haven't seen them in any of the Mac magazines lately...

73, jan
kc6uth

248. Re: [APRSSIG:442] GPS

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Mon, 27 Mar 1995 10:13:04 +0000
To: aprssig@tapr.org
Message-ID: <v01510103ab9c34676869@[138.87.2.109]>
Rendered body type: text/plain

>1. Can someone describe the cable configuration from the GPS to the
>computer/tnc?
>
>- Chip Griffin aka Granite
>- President of Thames River Apple Users Group

I use a Apple Service part number cable 590-0556 on Mac modem ports to the TNC.

signal description: Mini DIN-8,RS-422 modem & printer IIs,Iic,etc

```
1,dtr,HSK out +12v
2,cts trc,handshake in,HSK in,
3,transmit data inv,TXD-,tri-stated when rts is deasserted,
4,signal ground,GND,
5,receive data inv, RXD-,
6,transmit data, +TXD+,tri-stated when rts is deasserted,
7,gpi (dcd internal to trc if VIA1 SYNC signal is high to support
  synchronous modems) gen purpose input,
8,receive data +,RXD+
```

```
DIN-8  conn  6  7  8      cable Male end view
          3  4  5
          1  2
```

```
590-0556
IW//-//e cable
mini DIN-8 male,db-25 male,desc
```

```
1,20,HSKo dtr
2,6&8,HSKi cts trc
3,2,TxD-
4&8,7,sg RxD+
5,3,RxD-
7  GPI
```

note: DTR support= DB-25 pin 20 to Mini DIN-8 pin 1
CTS/RTS support= DB-25 pin 5 to Mini DIN-8 pin 2 and
also needs DB-25 pin 4 to Mini DIN-8 pin 1

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
Larry M. Keeran          lmkeeran@rs6000.cmp.ilstu.edu
EC McLean Co.-Pres CIRC-CIPRUS,Inc-APRS  k9orp.ampr.org (44.72.126.97)
wireless path: k9orp via ILGRD1  k9orp@wb9uus.ampr.org (44.72.123.97)
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
```

249. Re: Error Condition Re: address change

From: JKANDEL@umiami.ir.miami.edu
Date: Mon, 27 Mar 1995 15:16:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01H0MVJ3Z5LEA2420D@umiami.ir.miami.edu>
Rendered body type: text/plain

sorry for the misdirected message.
Joel kandel

250. Re: [APRSSIG:428] Re: Initializing PK232

From: JKANDEL@umiami.ir.miami.edu
Date: Mon, 27 Mar 1995 15:18:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01H0MVLDOWDKA2420D@umiami.ir.miami.edu>
Rendered body type: text/plain

Bill,
Good to see the Asst Tech Coords doing their job.
73,
Joel

251. Re: [APRSSIG:452] Re: Garmin 45

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 27 Mar 1995 16:51:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950327164847.28339A@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 25 Mar 1995, Bill Hurlock wrote:

> I seem to be having a problem reading Altitude from the Garmin 45. Once in a
> that you get your info from the GGA line.... Well the altitude is not on the
> GGA line.
> \$GPGGA,024400,4123.847,N,07326.407,W,1.00,2.0,3136.1,M,-33.8,M,*,*4F
>
> I put the 45 into Simulator mode and entered the 10289 feet. There doesn't
> appear to be any ALT info on the GGA line at all. I don't seem to be able to

ANSWER: I donno, but it sure looks to me like the altitude here is 3136.1 METERS....

Remember that APRS did not put it into the format necessary for 3D until ver 6.7.... Before that it put it in the posit as ALTxxxxxxx

So I donno what the problem is. (appears that there is none to me...) If I am missunderstanding, tell me....

252. APRS

From: Paul Katz <PAUL8@delphi.com>
Date: Mon, 27 Mar 1995 16:57:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01HOMZ1JIXY08Y6AVA@delphi.com>
Rendered body type: text/plain

From:

Paul Katz - N1LRT
8 Whittier Pl #2F
Boston, Ma 02114
617-723-6289

Bob:

I sent you a check to register APRS about a month ago and have not heard anything. Am wondering if you got the check or what.

Also, can I use APRS on com4 IRQ 5 or com1 IRQ5 ?

Thanks

Paul

`[1;33;41mPaul-Boston visit us we need your money I mean historic Bstn
`[1;33;44mHappy Sailing; Another Day Above Ground

`[1;35;43mRainbow V 1.12.6 for Delphi - Registered

253. Re: [APRSSIG:463] APRS 6.7a

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 27 Mar 1995 16:57:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950327165614.283398@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 27 Mar 1995, Daniel Velez wrote:

> Bob, V6.7a w/my KPC-3 does not display my outgoing packet at the bottom
> of the map display ..only my digipeated packets are displayed. Is it me

>

ANSWER: Thats the way it is supposed to work! You only see yourself the way others see you.... Via a digipeater..
I donno how you did it before... Unless your XMT audio is somming back in your speaker...

254. FW: [APRSSIG:448] Mailing list- Unsubscribe

From: wfburns@CERF.NET
Date: Mon, 27 Mar 95 17:48:18 PST
To: aprssig@tapr.org
Message-ID: <Chameleon.950327174931.WFBurns@.cerfnet.com>
Rendered body type: text/plain

-----Original Message-----

Gentlemen,

Please remove me from the mailing list.

Unsubscribe wfburns@cerfnet.com <William Burns>

255. Re: [APRSSIG:472] Re: APRS 6.7a

From: N9VJQ@aol.com
Date: Mon, 27 Mar 1995 18:21:56 -0500
To: aprssig@tapr.org
Message-ID: <950327182141_62981055@aol.com>
Rendered body type: text/plain

On Mon Mar 27, Bob Bruninga wrote:

"I donno how you did it before... Unless your XMT audio is somming back in your speaker"

As a matter of fact, I had the same problem with an old borrowed Yaesu until I realized the earphone/speaker jack had sidetone. Once I got that out of the system, the thing worked fine.

256. Re: [APRSSIG:470] Re: Garmin 45

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Mon, 27 Mar 1995 20:44:30 -0500
To: aprssig@tapr.org
Message-ID: <9503280147.AA09907@netaxis.com>
Rendered body type: text/plain

>
>On Sat, 25 Mar 1995, Bill Hurlock wrote:
>
>> I seem to be having a problem reading Altitude from the Garmin 45. Once in a
>> that you get your info from the GGA line.... Well the altitude is not on the
>> GGA line.
>> \$GPGGA,024400,4123.847,N,07326.407,W,1,00,2.0,3136.1,M,-33.8,M,,*4F
>>
>> I put the 45 into Simulator mode an entered the 10289 feet. There doesn't
>> appear to be any ALT info on the GGA line at all. I don't seem to be able to
>
>ANSWER: I donno, but it sure looks to me like the altitude here is
>3136.1 METERS....
>
>Remember that APRS did not put it into the format necessary for 3D until
>ver 6.7.... Before that it put it in the posit as ALTxxxxxxx
>
>So I donno what the problem is. (appears that there is none to me...)
>If I am missunderstanding, tell me....
>
>
OK on the meters, but what about the fact it does not update the display in altitude on each fix. If I set the posit to 10 sec. I see a fix about every 30 - 45 seconds. The altitude I see about one in 10 or more. I tried this on several computers and the results where the same. What about the fact the Garman 45 has several choices in the NEMA 0183 mode. Either ver 1.5 or ver 2.0. The ver 2.0 seems to out put alot more info then the 1.5. I get course vectors on 1.5.

Just a thought for down the road. It would be nice to be able to turn off the ID on the posits durning Replay and just in general. The call letters cover up the map when you are driving along.

//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

257. Re: [APRSSIG:474] Re: APRS 6.7a

From: Emmet2@aol.com
Date: Mon, 27 Mar 1995 21:20:55 -0500
To: aprssig@tapr.org
Message-ID: <950327212048_63212993@aol.com>
Rendered body type: text/plain

<<
"I donno how you did it before... Unless your XMT audio is somming back in your speaker"

As a matter of fact, I had the same problem with an old borrowed Yaesu until I realized the earphone/speaker jack had sidetone. Once I got that out of the system, the thing worked fine.
>>

Actually, on the KPC-3 (which I think he said he had), there is a mxm (I think) command which will allow you to monitor transmitted packets as a function of the tnc not the radio.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

258. Re: [APRSSIG:466] Re: Mac Single Port

From: Emmet2@aol.com
Date: Mon, 27 Mar 1995 21:41:30 -0500
To: aprssig@tapr.org
Message-ID: <950327212038_63212828@aol.com>
Rendered body type: text/plain

<<
My father has a device called an Axion that works fairly nicely. It interfaces with the Mac Comm Toolbox, and switches electronically depending on what application wants to talk to which serial port. It has 3 ports and takes its power from the serial port. Unfortunately, it has a conflict with MacTCP and we can't use it to dial in to our Internet provider :-(Also, I haven't seen them in any of the Mac magazines lately...
>>

The company that made those, from what I hear, has gone out of business.

Do you mean that the axiom automatically switched between the applications based on which program was seeking the port? What if more than one is seeking at a time? What about the info coming back?

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

259. APRS demo...

From: dhenders@InterServ.Com
Date: Mon, 27 Mar 95 20:45:01 PST
To: aprssig@tapr.org
Message-ID: <9503280445.AA16848@ InterServ.Com>
Rendered body type: text/plain

Hi guys,

We're having a demo to the Cleveland NWS personnel during the Spring SKYWARN training here. Be on the air with WX info Sat., Apr 8, 9am to 1pm ET. Don't forget to have your unproto (u command) set to GATE,WIDE so that your HF packets will cross the gateway. VHF station will be set up at the Red Cross for attendees and NWS personnel to see. Let's have a big show for them!

TNX, 73, Dave, N3EOY

260. MacAPRS 1.4.0

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 28 Mar 1995 02:06:35 -0600
To: aprssig@tapr.org
Message-ID: <v01510100ab9d7348b3f5@[199.1.11.125]>
Rendered body type: text/plain

I have noticed a few changes after upgrading to the latest MacAPRS version 1.4.0 .

0. Thanks for the balloon additions ; Do we use A=xxxxxxxx ?
1. For the first time my call and QTH show up on the map after starting the program. Yah !
2. There seem to be a few new table entries in the preference file
If you run an older version, a few of the parameters are overwritten or reset. Ant height and power come to mind.
3. Was there a change in the path name to the HAM Call files ?
I get call or path not found errors when using the find call button and no information on beacon stations.

I have move a copy of the Buckmaster Ham data file to a disk partition called:

HAMCALL in a folder called HAM0 and files called:
HAMCALL.129
STATIONS.ALL
USANAME.IDX
USAZIP.IDX
COUNTRYS
HAMINDEX
STAINDEX

This worked before and I did not need to use ResEdit to change the STR#

You Buckmaster MAC call book lookup program finds the disk based file.

I do load the CD-ROM for the world wide international Ham lookup.

A non-APRS question:

4. Is the international Ham data-base compress or encrypted - I wanted to do a text search of other Winningham in England but could not.

5. This program is very close to making me march down to the computer store and get a portable computer.

6. APRS67A.EXE (under Softwindows (12 Meg) and MacAPRS (6 Meg) running on the same Mac computer with a 21 In. monitor is a sight to see.
I wonder if Bob Brininga will give me a discount when I register or charge more. HI HI.

73

Bob KC5EJK Dallas
kc5ejk@onramp.net

261. Re: [APRSSIG:472] Re: APRS 6.7a

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Tue, 28 Mar 95 6:18:01 EST
To: aprssig@tapr.org
Message-ID: <9503281118.AA07622@umed.med.miami.edu>
Rendered body type: text/plain

>
>
> On Mon, 27 Mar 1995, Daniel Velez wrote:
>
> > Bob, V6.7a w/my KPC-3 does not display my outgoing packet at the bottom
> > of the map display ..only my digipeated packets are displayed. Is it me
>
> >
> ANSWER: Thats the way it is supposed to work! You only see yourself the
> way others see you.... Via a digipeater..
> I donno how you did it before... Unless your XMT audio is somming back
> in your speaker...
>
>
On the KPC-3 and KAM, set MXMIT ON, and you'll see the outgoing packets.

73 de Steve K04HD
sdimse@umed.med.miami.edu

262. Re: [APRSSIG:480] Re: APRS 6.7a

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Tue, 28 Mar 1995 06:20:02 -0800
To: aprssig@tapr.org
Message-ID: <199503281420.GAA16291@ix4.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>>
>>
>> On Mon, 27 Mar 1995, Daniel Velez wrote:
>>
>> > Bob, V6.7a w/my KPC-3 does not display my outgoing packet at the
bottom
>> > of the map display ..only my digipeated packets are displayed. Is
it me
>>
>> >
>> ANSWER: Thats the way it is supposed to work! You only see yourself
the
>> way others see you.... Via a digipeater..
>> I donno how you did it before... Unless your XMT audio is somming
back
>> in your speaker...
>>
>>
>On the KPC-3 and KAM, set MXMIT ON, and you'll see the outgoing

packets.
>
>73 de Steve K04HD
>sdimse@umed.med.miami.edu

I'll review the command set...MXMIT doesn't seem to be recognized as a parameter...just have to locate my manual HI HI. Thanks for the suggestions...I know it worked at one time, in versions previous to about 6.5 with no intervention or tweaking of a parameter by me. I wasn't dreaming it...

Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

263. Re: [APRSSIG:477] Re: Mac Single Port

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Tue, 28 Mar 1995 08:27:41 -0800
To: aprssig@tapr.org
Message-ID: <199503281627.IAA23720@archimedes.vislab.navy.mil>
Rendered body type: text/plain

>><
>My father has a device called an Axion that works fairly nicely. It
>interfaces with the Mac Comm Toolbox, and switches electronically depending
>on what application wants to talk to which serial port. It has 3 ports and
>takes its power from the serial port. Unfortunately, it has a conflict
>with MacTCP and we can't use it to dial in to our Internet provider :-(
>Also, I haven't seen them in any of the Mac magazines lately...
>>>
>
>The company that made those, from what I hear, has gone out of business.
>

:-(

>Do you mean that the axiom automatically switched between the applications
>based on which program was seeking the port? What if more than one is
>seeking at a time? What about the info coming back?
>

Yes, it was pretty cool to watch. Let's say you had a printer on Axion port 1, a modem on Axion port 2, and a TNC on Axion port 3. The Axion was then connected to your Mac's modem port. You would then, with the Axion software, define additional Mac Comm Toolbox ports for each of the Axion ports. So then you could run a terminal program to your modem, a packet program to your TNC, and print something all at the same time! The Axion would determine which of the ports the program was talking to, and switch appropriately. Now, I don't know what would happen if you had two different applications trying to talk to the same port at the same time, but you wouldn't do that out the regular Mac port, either...

73, jan
kc6uth

264. MacGPS: Mac <-> Garmin Freeware

From: miles@mail.utexas.edu (Miles Abernathy)
Date: Tue, 28 Mar 1995 14:35:03 -0600
To: aprssig@tapr.org
Message-ID: <v01510108ab9dcbe8e989@[128.83.159.101]>
Rendered body type: text/plain

The following description of freeware for the Garmin appeared in Info-Mac Digest, volume 13, issue 036, a few days ago. I have not seen the software myself, and have no further information about it. The software can be downloaded from many of the Info-Mac mirror sites:

<description of Info-Mac software archive follows>
The Info-Mac Archive is available at 50 public and private sites around the world. For the site list, request it by mail (address below), or try:
gopher://sumex-aim.stanford.edu/info-mac/help/mirror-list.txt
Also accessible by ftp. Help files and indexes are also in info-mac/help/.

<description of MacGPS follows>
Date: Sun, 5 Mar 1995 00:57:06 -0600
From: Paul Ross <paul@paulross.demon.co.uk>
Subject: [*] MacGPS 45 version 0.1; exchanges data with Garmin 40 or 45 GPS

MacGPS 45 version 0.1 is a freeware program to upload and download data between a Mac and a Garmin 40 or 45 Global Positioning System (GPS).
Written by John Waers (jfw@csn.org).

Current positional data can be transferred to the Mac real time using the NMEA protocol. Almanac, waypoint, track and route data can be uploaded to the GPS or downloaded to the Mac using Garmins proprietary protocol.

Apart from John's manual I have included a Read.me file to help users with the wiring of the GPS to the Mac modem port.

Paul Ross

[Archived as /info-mac/sci/mac-gps-45-01.hqx; 67K]

===

```
-----  
| Miles Abernathy, N5KOB | "I urge you to dream - I did, and one |  
| U. of TX, P O Box 7580 | day I found myself standing on the |  
| Austin, Texas 78713 USA | surface of the moon." - Gene Cernan |  
-----
```

265. Re: [APRSSIG:475] Re: Garmin 45

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 28 Mar 1995 17:18:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950328165947.9555A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 27 Mar 1995, Bill Hurlock wrote:
>Concerning the lack of altitude display.....

> OK on the meters, but what about the fact it does not update the display in
> altitude on each fix. If I set the posit to 10 sec. I see a fix about every
> 30 - 45 seconds. The altitude I see about one in 10 or more. I tried this on
> several computers and the results where the same. What about the fact the

REPLY: What display? APRS? If it doesnt get the altitude every time, then
lemme know. If it is the GARMIN display... CALL GARMIN...

If it is APRS, remember that APRS must get teh GGA sentence in order to
see ALTITUDE. But APRS is ALSO looking for the RMC sentence. If it sees
the RMC first, then it will be satisfied, and NOT see the GGA...

If you want altitude, turn ON GGA and off RMC on your GPS unit if possible...

266. Re: [APRSSIG:480] Re: APRS 6.7a

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 28 Mar 1995 17:31:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950328172544.9555D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 28 Mar 1995, Steven S. Dimse replied to SOMEONE elses query
about how to see your own packets without a digipeater:

> On the KPC-3 and KAM, set MXMIT ON, and you'll see the outgoing packets.
>

REPLY TO THE ORIGINAL ORIGINATOR TRYING TO SEE HIS OWN PACKETS: I think of
your own outgoing packets as a nuisance that take up processing time. If your
PC is fast enough that you never see I/O GLITCH
errors in the upper right display window in APRS, then I guess it is OK,
but it tells you nothing. In fact, seeing your own outgoing via the
DIGIPEATER is FAR more valuable, since if YOU saw it, then it means you
got through... and probably everyone else saw it to. If you let the TNC
echo, then you will NOT have this valuable resource available to you to
let you know that you are getting out.

267. Re: Bug report in WX logging?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 28 Mar 1995 20:04:52 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950328195750.10300A@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 27 Mar 1995 dhenders@InterServ.Com wrote:

> N3HPR reports to me that in 6.7a (and 6.6 too) he cannot shut off the WX
> logging. Both positions of the PosFil log to disk. Is this a bug or are we

APR REPLY: HELP! I am about to release 6.7b and I cannot find any
BUG. The code looks fine. My U-II is off line cuz squirrels in attic
ate the data cable. Does yours always LOG to disk even if POSFIL is normal?

Is he talking about a local U-II on COMx or is he talking about a remote
U-II??? If its a remote U-II, then it will ALWAYS be logged. For now,
I cannot remember my reason for doing this. Unless someone can remember
why I logg all remote U-IIS, I will change it to respond to POSFIL also...

That aside, is there a bug or not?

268. Re: [APRSSIG:485] Re: APRS 6.7a

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Tue, 28 Mar 1995 18:19:02 -0800
To: aprssig@tapr.org
Message-ID: <199503290219.SAA08295@ix4.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>
>
>On Tue, 28 Mar 1995, Steven S. Dimse replied to SOMEONE elses query
>about how to see your own packets without a digipeater:
>
>> On the KPC-3 and KAM, set MXMIT ON, and you'll see the outgoing
packets.
>>
>REPLY TO THE ORIGINAL ORIGINATOR TRYING TO SEE HIS OWN PACKETS: I
think of
>your own outgoing packets as a nuisance that take up processing time.
If your
>PC is fast enough that you never see I/O GLITCH
>errors in the upper right display window in APRS, then I guess it is
OK,
>but it tells you nothing. In fact, seeing your own outgoing via the
>DIGIPEATER is FAR more valudable, since if YOU saw it, then it means
you
>got through... and probably everyone else saw it to. If you let the
TNC
>echo, then you will NOT have this valuable resource available to you to
>let you know that you are getting out.
>
>
OK...got it fixed....MXMIT is on the KPC3 after ROM v5.0. Now it works
fine.

Bob...I find it useful to see what I am transmitting...and the TNC, not
APRS tells me this. It takes up virtually no processing time...seeing
both the original packet and the digipeated packet helps when you're
doing what I'm doing - trying to find a path out of the barracks into
the network. In any case, the KPC3 supports it and I had grown to
expect to see it. I just couldn't figure out why I wasn't seeing it.
It's fixed. Thanks!

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

269. U-II Availability

From: mxdp!twade@mxdp.afsv.af.mil (Tom Wade)
Date: Tue, 28 Mar 95 22:19:28 CST
To: aprssig@tapr.org
Message-ID: <9503290419.AA07564@mxdp.afsv.af.mil>
Rendered body type: text/plain

Where can I purchase the wx computer and for how much? Thanks

Tom - N9CDQ

270. Re: [APRSSIG:486] Re: Bug report in WX logging?

From: dhenders@InterServ.Com
Date: Tue, 28 Mar 95 20:59:00 PST
To: aprssig@tapr.org
Message-ID: <9503290459.AA23783@ InterServ.Com>
Rendered body type: text/plain

<----- Begin Included Message ----->

On Mon, 27 Mar 1995 dhenders@InterServ.Com wrote:

> N3HPR reports to me that in 6.7a (and 6.6 too) he cannot
shut off the WX
> logging. Both positions of the PosFil log to disk. Is
this a bug or are we

APR REPLY: HELP! I am about to release 6.7b and I
cannot find any
BUG. The code looks fine. My U-II is off line cuz
squirrels in attic
ate the data cable. Does yours always LOG to disk even if
POSFIL is normal?

Is he talking about a local U-II on COMx or is he talking
about a remote
U-II??? If its a remote U-II, then it will ALWAYS be
logged. For now,
I cannot remember my reason for doing this. Unless
someone can remember
why I logg all remote U-IIS, I will change it to respond
to POSFIL also...

That aside, is there a bug or not?

<----- End Included Message ----->

To further define the problem HPR has 8088 machine (yawn)
with APRS running. TNC on COM1 and UL-II on COM2. In
either toggle position of the position filter the WX data
is logged to disk. He wants to turn the logging off as it
rapidly fills his ancient disk. BTW, the Track History
file info randomly overwrites the screen each hour during
logging and IT BEEPS with beeps off. He says it wakes his
wife up each hour when the logging occurs--HELP!

73, Dave, N3E0Y

271. DXF to Map?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 29 Mar 1995 00:34:31 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503290634.AAA02076@solar.cs.tamu.edu>
Rendered body type: text/plain

I've found the maptodxf program and used it... Now I was wondering if there's
a DXF to Map utility out there? Anyone got/seen one?

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

272. DISTRIBUTION STATUS

From: "Postmaster" <POSTMSTR@SSWP.HCC.COM>
Date: 29 Mar 1995 02:14:02 GMT
To: aprssig@tapr.org
Message-ID: <SSWP.POSTMSTR.110714020095088FSSWP@HCC.COM>
Rendered body type: text/plain

SMTP.APRS SIG DISTRIBUTION STATUS INFORMATION 03/29/95 02:12:22
=====

DISTRIBUTION ID: SMTP.APRS SIG.0076
SUBJECT : .APRSSIG:490. DXF to Map?

DATE SENT : 03/29/95 TIME SENT: 02:09:00
=====

YOUR MAIL WAS NOT DELIVERED FOR THE FOLLOWING REASON:

SNADS STATUS : 000C
EXPLANATION : SNADS REQUEST PURGED

=====

RECIPIENT : AMGDAL.HUGHES1
LAST NAME : HUGHES
FIRST NAME : PATRICK
MIDDLE INITIAL :
INITIALS : M
NATIVE NAME : AMG/AMGDAL/HUGHES1
COUNTRY : US
ADMD : TELEMAL
PRMD : HOECHST
ORGANIZATION :
ORG UNIT 1 :
ORG UNIT 2 :
ORG UNIT 3 :
ORG UNIT 4 :
DDA :
TITLE : APP RES MGR
DESCRIPTION :
USERDATA :
M 4 CG-HQS-DALLAS 3089 YA0870147161HUGHES HUGHES1
UNITED STATES L PATRICK
TELEPHONE : 8883807

273. Re: [APRSSIG:488] U-II Availability

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Wed, 29 Mar 95 2:27:25 EST
To: aprssig@tapr.org
Message-ID: <9503290727.AA11361@umed.med.miami.edu>
Rendered body type: text/plain

>
> Where can I purchase the wx computer and for how much? Thanks
>
> Tom - N9CDQ
>
Peet Brothers Co.
1308-504C Doris Ave
Ocean, NJ 07712
800-872-7338

\$179 plus \$69 for computer interface.

274. Re: [APRSSIG:490] DXF to Map?

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Wed, 29 Mar 1995 06:01:39 -0500
To: aprssig@tapr.org
Message-ID: <9503291104.AA07010@netaxis.com>
Rendered body type: text/plain

>From what map source does it do a DXF. Is it a PC or MAC based program and
what is it called.

>I've found the maptodxf program and used it... Now I was wondering if there's
>a DXF to Map utility out there? Anyone got/seen one?

>
>73, gerry
>--
>Gerry Creager N5JXS * SAREX Co-Investigator
>gerry@cs.tamu.edu * A little radio that lets kids talk
>gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile
>*****
>
>
//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

275. Need help

From: "Warren E. Boudrie" <web@vectorbd.com>
Date: Wed, 29 Mar 1995 02:29:42 +000 (UTC)
To: aprssig@tapr.org
Message-ID: <Pine.3.87.9503290242.A28732-0100000@vectorbd.vectorbd.com>
Rendered body type: text/plain

I am a new 6.6 APRS user. I use an AEA PK-900 and normally run AEA's PcPakratt for Windows. For VHF, I have set MYA to RELAY and using the O-C-T sequence, I set my unproto to RELAY. The map screen verifies that setting as does the "blue screen" when I check for the UNPROTO setting. However, on the receiving end of my signal, other hams tell me that all I am sending is a CQ message instead of APRS,RELAY which is what I believe I should be sending out.

Any suggestions or comments would be appreciated since I can't figure out how not to send the CQ message. Wow, do I have a lot to learn about this APRS!!

73 de Warren AA2LQ

AA2LQ @ WB2WXQ.#WNY.NY.USA.NOAM

Internet: web@vectorbd.com

276. Re: [APRSSIG:493] Re: DXF to Map?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 29 Mar 1995 06:14:10 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503291214.GAA04226@solar.cs.tamu.edu>
Rendered body type: text/plain

This one's a PC-based program. Makes a clean DXF from an APRS map. I'd kinda like to go the other way.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

277. Re: [APRSSIG:488] U-II Availability

From: <JCOSTER@WVNVM.WVNET.EDU>
Date: Wed, 29 Mar 1995 07:58:28 -0500 (EST)
To: <aprssig@TAPR.ORG>
Message-ID: <199503291307.HAA29155@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

Peet Bros. advertises nearly every issue of QST or CQ magazines. I dont have the numbers here at the office, but check their ads. de Jack. wf8x.

278. Re: [APRSSIG:488] U-II Availability

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 29 Mar 1995 11:42:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950329114131.16827A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 28 Mar 1995, Tom Wade wrote:

> Where can I purchase the wx computer and for how much? Thanks

APR REPLY:

Look in ANY technical mag, HAM mags, National GEO, Pop Science, etc for PEET BROS. Their # is 1-800-872-7338 (USA-PEET)

279. Re: [APRSSIG:490] DXF to Map?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 29 Mar 1995 11:46:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950329114456.16827B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 29 Mar 1995, Gerald J Creager wrote:

> I've found the maptodxf program and used it... Now I was wondering if there's
> a DXF to Map utility out there? Anyone got/seen one?

APR REPLY: Hummh, what is the maptodxf program? Is it something I need to know about? Can it do anything for APRS map makers?

280. Re: [APRSSIG:492] Re: U-II Availability

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 29 Mar 1995 11:49:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950329114709.16827C@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 29 Mar 1995, Steven S. Dimse wrote:

> >
> > You can get the U-II WX station from:
> Peet Brothers Co.
> 1308-504C Doris Ave
> Ocean, NJ 07712
> 800-872-7338
>
> \$179 plus \$69 for computer interface.
>

APR COMMENT: The serial interface is built in. The \$69 gets you a matching cable and their data logging software. Their cable has RF filters in it. See WX.txt as to whether you need this or not...

281. Re: [APRSSIG:494] Need help

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Wed, 29 Mar 1995 13:18:39 -0800
To: aprssig@tapr.org
Message-ID: <199503292118.NAA08265@ix4.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>I am a new 6.6 APRS user. I use an AEA PK-900 and normally run AEA's
>PcPakratt for Windows. For VHF, I have set MYA to RELAY and using
>the O-C-T sequence, I set my unproto to RELAY. The map screen verifies
Be sure you're setting it to "APRS VIA digi1,digi2, ...etc". Hopefully
you're picking a specific path into the net and not staying with the
introductory RELAY. Also, is it being set on the right port??? Change
them both and see what happens.

>that setting as does the "blue screen" when I check for the UNPROTO
>setting. However, on the receiving end of my signal, other hams tell
>me that all I am sending is a CQ message instead of APRS,RELAY which
>is what I believe I should be sending out.

>
>Any suggestions or comments would be appreciated since I can't figure
out
>how not to send the CQ message. Wow, do I have a lot to learn about
this
>APRS!!

>
CQ is the default UNPROTO value so I'll bet it's the wrong port...

Let us know!
>73 de Warren AA2LQ
>
>AA2LQ @ WB2WXQ.#WNY.NY.USA.NOAM
>
>Internet: web@vectorbd.com
>
>
>
>
>

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

282. Re: [APRSSIG:498] Re: DXF to Map?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 29 Mar 1995 16:35:53 -0600 (CST)

To: aprssig@tapr.org
Message-ID: <199503292235.QAA11616@solar.cs.tamu.edu>
Rendered body type: text/plain

It takes an APRS map and converts it to DXF format, which is used in programs such as ArcInfo and ArcView. It could be of some use...

73, gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

283. Re: [APRSSIG:498] Re: DXF to ...

From: N9VJQ@aol.com
Date: Wed, 29 Mar 1995 18:10:28 -0500
To: aprssig@tapr.org
Message-ID: <950329181027_65336190@aol.com>
Rendered body type: text/plain

On March 29, 1995, Bob Bruninga wrote:
>APR REPLY: Hummh, what is the maptodxf program? Is it >something I need
>to know about? Can it do anything for APRS map makers?

DXF is a "universal" language that allows most CAD programs (AUTOCAD, etc) to import a drawing into the program; then it can be edited, then saved again to DXF. A DXF-to-MAP utility would be great for those of us who are having problems getting the digitizers, mice, whatever to work.

barry n9vjq
n9vjq@aol.com

284. Re: [APRSSIG:490] DXF to Map?

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Wed, 29 Mar 1995 18:43:43 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9503291839.A17244-a100000@acme>
Rendered body type: text/plain

On Wed, 29 Mar 1995, Gerald J Creager wrote:

> I've found the maptodxf program and used it... Now I was wondering if there's
> a DXF to Map utility out there? Anyone got/seen one?
>

Jim Krist - KG8GE - wrote a program called PLT2MAP that will convert Autocad maps to APRS maps. His packet radio address is KG8GE@WN7C. #NCOH.OH.USA. - He would like to have \$25/copy for the program. He also wrote a APRS to DXF program that's on my bbs. - He made all the Marion Ohio area maps using the PLT2MAP program.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgeable person about A.P.R.S.

285. GPS 45 and APRS bugs

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Wed, 29 Mar 1995 20:00:01 -0500
To: aprssig@tapr.org
Message-ID: <9503300102.AA20426@netaxis.com>
Rendered body type: text/plain

The problem is, the APRS screen only updates the altitude about once every 10 or more fixes that it gets from the GPS-45. It appears as if the APRS>program is not getting the fixes on a regular basis from the GPS-45. When I go to the COMM prompt and then to the GPS prompt and look at the data coming into the APRS program it looks fine. It is not garbled. When you go back to the map screen and watch the screen update on a station that is in motion and showing altitude fixes it does not update the altitude on the 3d map. I am running 6.7a. It appears that the posit rate when set to once every 10 seconds does not happen at 10 sec intervals. It looks like the updates occur at 30 to 45 second intervals.
Don't get me wrong I like the program, I am just reporting a problem that I ran across and wanted to see if it is something at this station or a real bug. Seeing that you are at PACCOMM would you know the difference in the 2 NEMA

0183 protocols in the 45 one says version 1.5 and the other version 2.0. One seems to dump alot more info out the port than the other.

>>Hi. Your GPS-45 is working fine.
>>Take a look at your listing....
>>In the \$GPGGA sentence it says 3136.1,M,.....
>>THIS IS AN ALTITUDE OF 3136.1 metres and therefore in perfect agreement
>>with the height in feet that you're reading off.
>>What's the problem?
>>-----
-_-_
>>Paul Evans, W4/G4BKI paul@paccomm.com
>>+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)
>>The views expressed in this message are not necessarily those of PacComm.
>>"I say, Ratty, just because we're staring adversity in the face,
>>there's no need to forget the rules of grammar"
>>- Mole, "The Wind in the Willows"
>>PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618
//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

286. APRS67a BUG FOUND

From: tony.barben@tglbbs.com (Tony Barben)
Date: Wed, 29 Mar 1995 15:29:06 GMT
To: aprssig@tapr.org
Message-ID: <9503292030069442@tglbbs.com>
Rendered body type: text/plain

HI All APRS Sations
I found A bug with the newest verssion and maybe all the versions
When you try to see the power rings in a closeup it draws thousands
of lines also I would like to know if a good map drawer can help me
on drawing with the mapfix I do not understand how that works?
73's for now De Tony N2WNF

287. Re: [APRSSIG:481] Re: APRS 6.7a

From: Emmet2@aol.com
Date: Wed, 29 Mar 1995 22:21:33 -0500
To: aprssig@tapr.org
Message-ID: <950329222131_65656963@aol.com>
Rendered body type: text/plain

<<
I'll review the command set...MXMIT doesn't seem to be recognized as a
parameter...just have to locate my manual HI HI. Thanks for the
suggestions...I know it worked at one time, in versions previous to
about 6.5 with no intervention or tweaking of a parameter by me. I
wasn't dreaming it...
>>

MXMIT is not in the manual as I recall, it was added too late for the manual,
see the addendum.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

288. Re: [APRSSIG:482] Re: Mac Single Port

From: Emmet2@aol.com
Date: Wed, 29 Mar 1995 22:21:35 -0500
To: aprssig@tapr.org
Message-ID: <950329222134_65657014@aol.com>
Rendered body type: text/plain

re: Axioms switching

I wasn't worried about both applications talking to the port at the same time
as with event based programming this could be handled I'm sure. I am,
however, what (if anything) it does about incoming information from the
serial devices connected. I know for sure the modem & tnc want to send info
to the computer, and most printers do too, so what if one wants the
computer's attention when it isn't cued up?

- Chip Griffin aka Granite

- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
= Emmet2 (America Online) = emmet2@aol.com (internet)
= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

289. Re: [APRSSIG:485] Re: APRS 6.7a

From: Emmet2@aol.com
Date: Wed, 29 Mar 1995 22:21:39 -0500
To: aprssig@tapr.org
Message-ID: <950329222138_65657090@aol.com>
Rendered body type: text/plain

<<
REPLY TO THE ORIGINAL ORIGINATOR TRYING TO SEE HIS OWN PACKETS: I think of your own outgoing packets as a nuisance that take up processing time. If your PC is fast enough that you never see I/O GLITCH errors in the upper right display window in APRS, then I guess it is OK, but it tells you nothing. In fact, seeing your own outgoing via the DIGIPATER is FAR more valuable, since if YOU saw it, then it means you got through... and probably everyone else saw it to. If you let the TNC echo, then you will NOT have this valuable resource available to you to let you know that you are getting out.
>>

I would agree, except that listening to your packets via MXM might be valuable during trouble shooting, especially if you don't want to go on air while configuring/trouble-shooting.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
= Emmet2 (America Online) = emmet2@aol.com (internet)
= N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

290. Re: [APRSSIG:507] Re: Mac Single Port

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Thu, 30 Mar 95 2:14:07 EST
To: aprssig@tapr.org
Message-ID: <9503300714_AA15666@umed.med.miami.edu>
Rendered body type: text/plain

>
> re: Axioms switching
>
> I wasn't worried about both applications talking to the port at the same time
> as with event based programming this could be handled I'm sure. I am,
> however, what (if anything) it does about incoming information from the
> serial devices connected. I know for sure the modem & tnc want to send info
> to the computer, and most printers do too, so what if one wants the
> computer's attention when it isn't cued up?
>

don't have first hand knowledge of this product, but from what I had read about it, only one serial port could be active at a time. The software was smart enough to remember which program had used which port last, and use that the next time that program opened a serial port. I had investigated this device when I was looking for a solution and found that it would not let me do what I needed. I could be wrong though.

Steve K04HD

291. Re: Garmin APRS & Mac Data

From: JeffS5@aol.com
Date: Thu, 30 Mar 1995 03:45:15 -0500
To: aprssig@tapr.org
Message-ID: <950330034514_65895096@aol.com>
Rendered body type: text/plain

I saw a message a few days ago about a shareware app that allows data dumps from the GPS-45 to the Mac. Being isolated out here on AOL I have no access to the internet or this file. Is there anyone out there that has access to this file that can either send to me on AOL or post it on AOL (I was surprised it's not there) for us guys in the sticks?

I'm also interested if this has been tested with the GPS-75 as well? Garmin says that their PC program is the same for the 45 & 75's so I would "assume" this will work on both.

I'm also looking for info to interface my GPS-75 into the Mac/ APRS for my big summer trip to the great North this summer.

Next I gotta send in my cash so I'm "legal"!

Tnx, Jeff - WA6EQU

AOL: JeffS5@aol.com

292. Re: [APRSSIG:510] Re: Garmin ...

From: N9VJQ@aol.com
Date: Thu, 30 Mar 1995 07:26:35 -0500
To: aprssig@tapr.org
Message-ID: <950330072635_65929553@aol.com>
Rendered body type: text/plain

On 95-03-30 03:57:55 EST, JeffS5@aol.com wrote:

>I saw a message a few days ago about a shareware app that allows >data dumps
>from the GPS-45 to the Mac. Being isolated out here on AOL I have >no access
>to the internet or this file.

We on AOL have limited access to the Internet. While not total, we can do alol. Type Keyword "Internet" to see. The APRSSIG is on the Internet.

73's Barry N9VJQ

n9vjq@aol.com

293. Re: [APRSSIG:510] Re: Garmin APRS & Mac Data

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Thu, 30 Mar 95 7:57:16 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.796568236.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

RE: GPS Program for Garmin-45 and the Macintosh..

I will get this program and try to put it up on the TAPR FTP site.. If you don't have access to that and want the program, send E-Mail directly to me and I will see what I can do..

Keith Sproul

Keith Sproul	WUZZ
Student Housing Network Administrator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

294. Re: [APRSSIG:505] APRS67a BUG FOUND

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 30 Mar 1995 07:19:29 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503301319.HAA23795@solar.cs.tamu.edu>
Rendered body type: text/plain

Tony Barben sez:

>
> HI All APRS Sations
> I found A bug with the newest verssion and maybe all the versions
> When you try to see the power rings in a closeup it draws thousands
> of lines also I would like to know if a good map drawer can help me
> on drawing with the mapfix I do not understand how that works?
> 73's for now De Tony N2WNF

Bob can correct me if I'm wrong, but the "thousnads of lines" issue is an indication that you are already at the limit of of reasonableness in a map segment, and then push APRS over the edge.

Bob increased the number of lines and points a couple of rev's back, (thanks! doing detailed 1:100k maps was painful before then) and I saw that a whole lot.

Drop me e-mail and I may be able to help you with the mapfixer questions.

73, gerry n5jxs

295. [APRSSIG:494] Need help

From: YVES1@delphi.com
Date: Thu, 30 Mar 1995 08:57:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01H0QP6EB4608WYRH6@delphi.com>
Rendered body type: text/plain

Two problems going to 6.7a - wonder if anyone else has experienced these and have any constructive comments?

1. Cannot save digipathes anymore, no matter what I try. Seemed to work with earlier versions. Every time I fire up a new session, I have to input the several pathes I use all over again. Is this is bug or have I forgotten something?

2. Suddenly 6.7a will not work full screen under win 3.11. Every previous version did. Even playing with pif's doesn't help. I get init of tnc, then screen freezes. FUNNY THING...!!!! If I run from a dos c: prompt UNDER WINDOWS it works fine. Have tried everything, video/port/etc. conflicts and can't find anything that might cause the problem.

Worse comes to worse I'll have to go back to 6.6.

Oh yes, save the wisecracks about windows, ok? tnx :)

Thanks for any helpful comments!
73

Yves Albert (Al {"Al"}) Feder
Yves1@Delphi.com
W1EOX
tcp/ip 44.88.4.14
Miskatonic University Department of Archaeology
("Mommy, what's all that funny metal stuff on the roof?")
Home of Tiny Radio Theatre AND
Eric, the Mad Megalomaniac Bull Cavy

296. Re: [APRSSIG:503] Re: DXF to Map?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 30 Mar 1995 07:12:32 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199503301312.HAA23726@solar.cs.tamu.edu>
Rendered body type: text/plain

Great! That should help me draw pictures of cow pastures!

73, gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

297. Re: [APRSSIG:514] Need help

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Thu, 30 Mar 95 09:47:08 EST
To: aprssig@tapr.org
Message-ID: <9503301447.AA04229@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

I have saved digi paths no problem. Also running under WFW3.11 no rproblem.
Only problem you might have is a com port conflict

>Two problems going to 6.7a - wonder if anyone else has experienced these and
>have any constructive comments?

>

>

>1. Cannot save digipathes anymore, no matter what I try. Seemed to work with
>earlier versions. Every time I fire up a new session, I have to input the
>several pathes I use all over again. Is this is bug or have I forgotten
>something?

>

>2. Suddenly 6.7a will not work full screen under win 3.11. Every previous

>version did. Even playing with pif's doesn't help. I get init of tnc, then
>screen freezes. FUNNY THING...!!!! If I run from a dos c: prompt UNDER
>WINDOWS it works fine. Have tried everything, video/port/etc. conflicts
>and can't find anything that might cause the problem.
>
>
>Worse comes to worse I'll have to go back to 6.6.
>
>Oh yes, save the wisecracks about windows, ok? tnx :)
>
>Thanks for any helpful comments!
>73
>
>Yves Albert (Al {"Al"}) Feder
>Yves1@Delphi.com
> W1EOX
>tcp/ip 44.88.4.14
>Miskatonic University Department of Archaeology
> ("Mommy, what's all that funny metal stuff on the roof?")
>Home of Tiny Radio Theatre AND
>Eric, the Mad Megalomaniac Bull Cavy

Bob Baltz
Chesapeake Region Sales
Ph: (410) 987- 8777
Fax: (410) 987-8777
E-mail Bobb@ustc.vlsi.com

298. Re: [APRSSIG:503] Re: DXF to Map?

From: Kent Larson <klaron@access.digex.net>
Date: Thu, 30 Mar 1995 10:18:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950330101732.9686B-100000@access3.digex.net>
Rendered body type: text/plain

\$25 seems a little steep since APRS is only \$24.

Kent

On Wed, 29 Mar 1995, John Baum wrote:

> On Wed, 29 Mar 1995, Gerald J Creager wrote:
>
> > I've found the maptodxf program and used it... Now I was wondering if there's
> > a DXF to Map utility out there? Anyone got/seen one?
> >
> Jim Krist - KG8GE - wrote a program called PLT2MAP that will
> convert Autocad maps to APRS maps. His packet radio address is KG8GE@WN7C.
> #NCOH.OH.USA. - He would like to have \$25/copy for the program. He also
> wrote a APRS to DXF program that's on my bbs. - He made all the Marion
> Ohio area maps using the PLT2MAP program.
>
>
> The Ohio Mapmaker - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
> Packet address KB8JXO@W8CQK.#CMH.OH.USA
> The 137th most knowledgable person about A.P.R.S.
>
>
>
>

299. Re: [APRSSIG-517] Re- DXF to

From: "Dana Rodakis" <dgra@qmgate.eci-esyst.com>
Date: 30 Mar 1995 10:38:16 -0500
To: aprssig@tapr.org
Message-ID: <n1415562174.68617@qmgate>
Rendered body type: text/plain

Reply to: RE>[APRSSIG:517] Re: DXF to Map?

Date: 3/30/95 10:28 AM
> \$25 seems a little steep since APRS is only \$24.
> Kent

Those that think that the requested shareware fee is too high, obviously have never tried to write computer software. The author has worked long and hard to design, code, debug, re-design, re-code, debug, ... ad infinitum. He has most definitely earned whatever minimal fee he is asking for. If you think it's too high, then go write your own!

300. Re: [APRSSIG:518] Re: [APRSSIG-517] Re- DXF to

From: John Maca <jmaca@phoenix.phoenix.net>
Date: Thu, 30 Mar 1995 10:07:46 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950330100506.1612K-100000@phoenix.phoenix.net>
Rendered body type: text/plain

I've written code... and for what it does, I think it's to high also.~
But if it saves you time and you do this a lot, it might be worth it. He
might get more \$\$\$ if he lowered the price. Remember Borland vs.
Microsoft???

John

On Thu, 30 Mar 1995, Dana Rodakis wrote:

```
>      Reply to:  RE>[APRSSIG:517] Re: DXF to Map?
>
> Date: 3/30/95 10:28 AM
> > $25 seems a little steep since APRS is only $24.
> > Kent
>
> Those that think that the requested shareware fee is too high, obviously =
> have never
> tried to write computer software. The author has worked long and hard to =
> design,
> code, debug, re-design, re-code, debug, .... ad infinitum. He has most =
> definitely earned
> whatever minimal fee he is asking for. If you think it's too high, then =
> go write your
> own!
>
>
>
>
```

301. DISTRIBUTION STATUS

From: "Postmaster" <POSTMSTR@SSWP.HCC.COM>
Date: 30 Mar 1995 11:29:11 GMT
To: aprssig@tapr.org
Message-ID: <SSWP.POSTMSTR.735029110095089FSSWP@HCC.COM>
Rendered body type: text/plain

SMTP.APRS SIG DISTRIBUTION STATUS INFORMATION 03/30/95 11:29:09
=====

DISTRIBUTION ID: SMTP.APRS SIG.1315
SUBJECT : .APRSSIG:518. Re: .APRSSIG-517. Re- DXF
DATE SENT : 03/30/95 TIME SENT: 11:26:00
=====

YOUR MAIL WAS NOT DELIVERED FOR THE FOLLOWING REASON:

SNADS STATUS : 000C
EXPLANATION : SNADS REQUEST PURGED

=====

```
RECIPIENT      : AMGDAL.HUGHES1
LAST NAME       : HUGHES
FIRST NAME      : PATRICK
MIDDLE INITIAL  :
INITIALS        : M
NATIVE NAME     : AMG/AMGDAL/HUGHES1
COUNTRY         : US
ADMD            : TELEMAIL
PRMD            : HOECHST
ORGANIZATION    :
ORG UNIT 1      :
ORG UNIT 2      :
ORG UNIT 3      :
ORG UNIT 4      :
DDA             :
TITLE           : APP RES MGR
DESCRIPTION     :
USERDATA        :
                                     3089      YA0870147161HUGHES      HUGHES1
                                     PATRICK
```


302. Kantronics Plus tnc

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Thu, 30 Mar 1995 09:47:08 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950330094109.16573A-100000@steroid.ecst.csuchico.edu>
Rendered body type: text/plain

I am running APRS ver 6.7a with a Kantronics Plus. When I try to switch from VHF to HF by using the 'C' command then typing 'HF' all indications on the screen say I am in the HF mode. The top right hand corner of the screen says it is initializing my tnc and the command bar at the bottom says it is in the HF mode. But when I xmit a packet it xmits on the vhf port yet and no matter what I do I am unable to get the darn thing to xmit on HF. I can verify its xmitting on VHF by watching the light on the kam and my xmit indicator on the VHF rig lights and the HF does not.

Can someone out there help me out this is driving me nuts.

One more item...has anyone succeeded in running APRS in the background of the windows enviroment? If so how did you do it?

Thanks for the help in advance. 73's

Brad

303. Re: [APRSSIG:500] Re: Need help

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 30 Mar 1995 17:20:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950330171831.3600B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I would say that you are correct. You are setting the HF port and not the VHF port. On the KAM, the UNPROTO command is like this

UNPROTO APRS VIA HF1,HF2,ETC / APRS VIA VHF1,VHF2,ETC...

That caommand sets BOTH the HF and VHF ports separated by a slash character...

304. Re: [APRSSIG:503] Re: DXF to Map?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 30 Mar 1995 17:26:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950330172222.3600C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

CONCERNING THE DXF MAPS:

There is a guy in Marion OHIO that has developed a complete set of tools for making APRS maps using AUTOCAD. He can convert AUTOCAD maps to APRS and APRS maps to AUTOCAD. Look in my README\MAPS.txt for the info on where to get a hold of him. I believe his call is KG8GE. His street level maps of Marion Ohio are EXCELLENT. But they are in the OHmapsxx.zip file, not normally distributed with APRS.

Since he spent about a year developing these tools, he is asking for a small registration fee. I think it is \$25 or so...

305. Re: [APRSSIG:504] GPS 45 and APRS bugs

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 30 Mar 1995 17:31:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950330172747.3600E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Concerning the guy who is not seeing ALTITUDE but about 10% of the time...

APRS looks for GLL, GGA AND RMC. If it sees RMC before seeing GGA AND VTG, it will use the RMC sentence. If it gets a good RMC, then it will stop looking and THERFORE NOT get the GGA. Withoug the GGA, you wont get altitude.

I suspect that your GPS is outputting both GGA and RMC. YOu need to turn

off RMC from your GPS if you want to guraranteee getting GGA everytime...

Many GPS's give you some selections on what sentences are included in the NMEA output. Check your manual...

306. Re: [APRSSIG:517] Re: DXF to Map?

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Thu, 30 Mar 1995 17:41:18 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9503301715.A27500-a100000@acme>
Rendered body type: text/plain

On Thu, 30 Mar 1995, Kent Larson wrote:

> \$25 seems a little steep since APRS is only \$24.
> >
> > Jim Krist - KG8GE - wrote a program called PLT2MAP that will
> > convert Autocad maps to APRS maps. His packet radio address is KG8GE@WN7C.
> > #NCOH.OH.USA. - He would like to have \$25/copy for the program. He also
> > wrote a APRS to DXF program that's on my bbs. - He made all the Marion
> > Ohio area maps using the PLT2MAP program.

Yea, I know it does, but gee, he wrote the program. The way I see it, after looking at a lot of maps made in Autocad, it would end up like making maps with the USGS CD-ROMS. Very time consuming.
I'll stick with my old pen and paper plots.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

307. Re: [APRSSIG:514] Need help

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 30 Mar 1995 17:44:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950330174110.3600H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

TWO people have now reported that they CANNOT save the 13 digipeater paths anymore in version 67a.

I tried it ON MY MACHINE using 67b (no changes to that portion of 67a) and it works fine...

ONE guy said he could not even get it to set up any paths using the OPS-DIGI-choose a path function..

The second guy says that the 13 paths are NOT reloaded each time he starts the program...

These sound like two separate problems to me.... BUT NEITHER IS A PROBLEM ON MY 386/486 PC's.

ANYONE ELSE CAN CONFIRM THIS/THESE PROBLEMS?

308. Re: [APRSSIG:517] Re: DXF to Map?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 30 Mar 1995 17:51:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950330174813.3600K-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 30 Mar 1995, SOMEONE wrote:

>
> \$25 for the AUTOCAD-to-APRS MAP program written by KG8GE seems a little steep since APRS is only \$24. >

APR COMMENT: Yes, but remember, he only sells 3 or 4 of those. There are a lot more people who will use APRS than will be making maps from AUTOCAD.

Considering the value of the tool, I'd say its worth it.. hi hi

309. Re: [APRSSIG:521] Kantronics Plus tnc

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 30 Mar 1995 17:55:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950330175348.3600L-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

CONVERTING THE GUY TRYING TO CHANGE THE KAM BETWEEN HF and VHF:

APRS uses the default |a to change to VHF and ~a to change to HF. Be sure that you have not altered those commands for your TNC. I don't remember the names of the commands for changing these stream/port switch characters... But be sure they are still | and ~

Once you verify that, and it still doesn't work, get back to me...

310. Re: [APRSSIG:518] Re: [APRSSIG-517] Re- DXF to

From: Kent Larson <klaron@access.digex.net>
Date: Thu, 30 Mar 1995 18:27:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950330182712.26672B-100000@access1.digex.net>
Rendered body type: text/plain

Sorry, didn't mean to offend. You give good advice.

Kent

On Thu, 30 Mar 1995, Dana Rodakis wrote:

> Reply to: RE>[APRSSIG:517] Re: DXF to Map?
>
> Date: 3/30/95 10:28 AM
> > \$25 seems a little steep since APRS is only \$24.
> > Kent
>
> Those that think that the requested shareware fee is too high, obviously =
> have never
> tried to write computer software. The author has worked long and hard to =
> design,
> code, debug, re-design, re-code, debug, ... ad infinitum. He has most =
> definitely earned
> whatever minimal fee he is asking for. If you think it's too high, then =
> go write your
> own!
>
>
>
>

311. MacGPS_45_v0-1

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 30 Mar 1995 20:30:10 -0600
To: aprssig@tapr.org
Message-ID: <v01510100aba118b41ee7@[199.1.11.109]>
Rendered body type: text/plain

I have uploaded the MacGPS_45_v0-1.sit to the APRSSIG upload area. It took a very long time to get across the net from .au
My new LCD modes was showing 125 CPS most time I get 1712 CPS
73
BOB KC5EJK Dallas @EM12ot]

312. Welcome plus 2 Problems

From: K2ADJ@aol.com
Date: Fri, 31 Mar 1995 00:47:29 -0500
To: APRSSIG@tapr.org
Cc: Bruninga@greatlakes.nadn.navy.mil, W2HOB@aol.com
Message-ID: <950331001406_66932794@aol.com>
Rendered body type: text/plain

Hi Bob,

First wanted to inform you that Boyd, W2HOB, is now among us here on APRSSIG, he internet address is W2HOB@aol.com

I have found two problems with 6.7a, one of which was reported to you by someone else and I just verified it..

First, the one reported, storing the digi path into the config file.. 0 - D - S - (what you want), sorry I believe that last character should be a "v"

since it is uppercase in the ListsaVe.....The other gentlemen is correct, it doesn't save the Digipath.. (v6.7a).

The other problem I discovered is that it will not save, per SETUP a map range of 128 miles.. Lets put it another way, it saves it as 128, verified in config file but when you reload APRS it is defaulted to 64 miles.. I have also checked saving set-up using 32, 64, 256, and 512 mile ranges and all those worked! Only one that loaded wrong was the 128 mile range. (v6.7a)

My APRS is running on a 286....

73 de Rod

313. Re: [APRSSIG:530] MacGPS_45_v0-1

From: JeffS5@aol.com
Date: Fri, 31 Mar 1995 04:32:34 -0500
To: aprssig@tapr.org
Message-ID: <950331043233_67073539@aol.com>
Rendered body type: text/plain

OK, OK, I ADMIT I DON'T PAY ATTENTION TO WHAT AOL DOES OUTSIDE OF THEIR "NORMAL" STUFF. I'M CURRENTLY TRYING TO NAVAGATE THE FTP SEARCH LIST AND CANNOT GET A HIT ON ANYTHING I TRY. SO, WHERE DO I GO TO FINR THE TAPR SITE??

Thanks, Jeff - WA6EQU

314. Re: Video problems under windows

From: dhenders@InterServ.Com
Date: Fri, 31 Mar 95 03:43:52 PST
To: aprssig@tapr.org
Message-ID: <9503311143.AA15623@ InterServ.Com>
Rendered body type: text/plain

For those of you running APRS under windows here a few hints and kinks on video problems that might help solve some problems. Unfortunately, depending on your hardware and video drivers there may not be a solution to your video conflict.

The first thing to understand is, that in this new world of video accelerators, manufacturers have been using broad areas of memory. Blocks of memory that used to be reserved for (or permitted to be used by) DOS (in the days when DOS was the only thing going) have been overtaken. Crys of distress have been heard from both sides of the programming street. So, video problems using DOS applications under Windows can be frustrating and unsolvable.

Do these things in the following order and try running APRS after each one to see if it solves the problem:

1. Many video card manufacturers are using memory areas a000H to c7ffH. If you have a video accelerator card, try excluding these areas of memory from use by the system and Windows. Do this by adding the following at the end of the EMM386 line in your config.sys file: x=a000-c7ff
2. Make sure you have defined a PIF file for running APRS. Have the following set as checked blocks in the PIF file: (First page of PIF editor)--High Graphics and Execution Background. (Advanced page of PIF editor)--Lock Application Memory, High Graphics, Emulate Text Mode and Retain Video Memory. Change both Memory Requirements blocks on page one of the PIF Editor to -1.
3. From the DOS prompt (not in Windows) check the Mem command and make sure that you have more than 500k of conventional memory. If not run Memmaker and try to get your system configured for more conventional memory.
4. If you have a special driver for your video accelerator card trying using the VGA driver supplied with Windows. (Do this only if your video card manual says that the original drivers supplied with Windows will still work with the card.) This option is your last resort, your accelerator card will not be up to speed using the Windows driver but the video lockup and unstability may disappear using the Windows driver that doesn't do all the

fancy things in memory. With a small amount of effort (when needing the acceleration for Windows graphics applications) you can switch the custom driver back online. Then switching back to the VGA driver when running APRS. (No fun but effective.)

If you got through paragraph 3, and you still have video problems, then unless your video card manufacturer has an updated driver you'll have to be satisfied with paragraph 4 if it works.

Video card manufacturers are learning how to get around these problems by designing drivers that overcome these DOS video problems (hint to Microsoft and others) and DOS programmers are learning not to do things with video that encroach on the newly reserved video areas (hint for APR).

If you just want to throw your hands up in the air and not do anything. That's alright too. Windows 95 will ship in about 4 months and it solves all these problems! Or so I've been told.

Question: Does anyone out there have a beta of Windows 95????

Have fun, 73, Dave, N3EOY

315. Re: [APRSSIG:532] Re: MacGPS_45_v0-1

From: Jess Girard <girard@panix.com>
Date: Fri, 31 Mar 1995 08:29:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950331082732.4639C-100000@panix.com>
Rendered body type: text/plain

On Fri, 31 Mar 1995 JeffS5@aol.com wrote:

> OK, OK, I ADMIT I DON'T PAY ATTENTION TO WHAT AOL DOES OUTSIDE OF THEIR
> "NORMAL" STUFF. I'M CURRENTLY TRYING TO NAVAGATE THE FTP SEARCH LIST AND
> CANNOT GET A HIT ON ANYTHING I TRY. SO, WHERE DO I GO TO FINR THE TAPR SITE??
>
> Thanks, Jeff - WA6EQU

Hi Jeff:

Don't use their search list. Pick (something like) "Enter FTP site of your choice" and enter "ftp.tapr.org". I know they don't phrase it as I show but it's close parallel wording.

Good luck.
Jess Girard
ND1L

316. Digipeater paths

From: eashway@VNET.IBM.COM
Date: Fri, 31 Mar 95 09:30:31 EST
To: aprssig@tapr.org
Message-ID: <199503311449.IAA11689@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

I am running 6.7a on a 1MB 286 and have NO trouble storing and retrieving digipeater path information via the O-D functions.

The only anomaly I see every now & then on 6.7a is a line that looks something like the following appearing somewhere on the map:

'TRACK-HISTORY=XXXXXXXXX.XXX'

Ed - W9KTH

317. Re: Welcome plus 2 Problems

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 31 Mar 1995 09:51:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950331094503.10495A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

K2ADJ reported that the CONFIG file will NOT save 128 mile range but defaults to 64 miles!

RESPONSE:

Thanks for the 128 mile problem, I have noticed that over and over, but just assumed that I didn't remember what screen I was on when I saved it! That EXPALINS IT! (But I don't know how that is happening)

I tried 67b again last night and still the DIGIPATHS save works fine...

I didn't change anything between 67a and 67b (that I know of).

So if anyone that is having probs with the DIGI paths in 67a and can eventually test 67b, please let me know if there is a difference or if the problem persists.

318. MacAPRS 1.4.2

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 31 Mar 95 9:54:31 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.796661671.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

MacAPRS 1.4.2 is now up on both UCSD and TAPR ftp sites..

Note: the UCSD site is MUCH faster, However, I have less control over what stays there and sometimes the stuff gets deleted

The MacAPRS.other.sit file is now on both sites also. This contains the SERIAL TOOL, the Documentation, and a new file, MacAPRS.History.

This History file contains all of the revision announcements, and therefore has some stuff in it not in the documentation yet..

Speaking of documentation, I have a person locally working on updating the documentation, so that should be shaping up soon.

Also, for those of you running System 7.5, we are working on a MacAPRS AppleGuide document.. If you have Sys 7.5 this will be quite nice..

Rev 1.4.2

This is a minor release that fixes a couple minor things.

* There was a memory problem if you ran out of memory, in some cases, it would not re-claim the memory correctly.

* There was a minor problem in the CALCULATE DISTANCE dialog box that has been fixed.

* There is now a TRACKED STATION LIST that shows all of the stations that are being tracked. This station list works just like all of the other station lists but has data applicable to moving stations. One thing of interests that has been added to this is the actual distance that station has traveled. This is point to point distance, NOT line of site distance.

* The MESSAGE ACKs have been reduced so that it will only ack once in 30 seconds. This is because the old way, it would ACK every time it saw a message, even if it was being digi-peted around..

* Some more work has been done on the BALLOON stuff, but it is still not finished... Contact me if you are interested in the Balloon features.

Keith Sproul

Keith Sproul	WU2Z
Student Housing Network Administrator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

319. Re: [APRSSIG:535] Digipeater paths

From: Kent Larson <klarson@access.digex.net>
Date: Fri, 31 Mar 1995 11:00:29 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950331110015.23676A-100000@access1.digex.net>
Rendered body type: text/plain

I get the same thing from time to time.

Kent

On Fri, 31 Mar 1995 eashway@VNET.IBM.COM wrote:

> I am running 6.7a on a 1MB 286 and have NO trouble storing and retrieving
> digipeater path information via the O-D functions.
>
> The only anomaly I see every now & then on 6.7a is a line that looks
> something like the following appearing somewhere on the map:
>
> 'TRACK-HISTORY=XXXXXXXX.XXX'
>
>
>
> Ed - W9KTH
>

320. APRSSIG:529

From: griedman@awinc.com (G.Riedmann)
Date: Fri, 31 Mar 95 08:59 PST
To: aprssig@tapr.org
Message-ID: <m0ruk2a-0006YvC@awinc.com>
Rendered body type: text/plain

On thursday,march 30,Kent Larson wrote
>The author...has most definitely earned..whatever minimal fee he is asking for.
Dam rite,Kent,thanks for voicing your opinion.
Besides,it seems to have gone unnoticed how many maps of this world are
available in DXF.Basically every serious true mapping software has a
DXF export facility,that means every government,utility,oil company and
you name itcan make a map available in DXF format.And, believe me,those
are usually not mickey mouse maps.

Gerhard Riedmann

321. APRSSIG:529

From: griedman@awinc.com (G.Riedmann)
Date: Fri, 31 Mar 95 08:59 PST
To: aprssig@tapr.org
Message-ID: <m0ruk2I-0005zuC@awinc.com>
Rendered body type: text/plain

On thursday,march 30,Kent Larson wrote
>The author...has most definitely earned..whatever minimal fee he is asking for.
Dam rite,Kent,thanks for voicing your opinion.
Besides,it seems to have gone unnoticed how many maps of this world are
available in DXF.Basically every serious true mapping software has a
DXF export facility,that means every government,utility,oil company and
you name itcan make a map available in DXF format.And, believe me,those
are usually not mickey mouse maps.

Gerhard Riedmann

322. APRSSIG:529

From: griedman@awinc.com (G.Riedmann)
Date: Fri, 31 Mar 95 08:59 PST
To: APRSSIG@TAPR.ORG
Message-ID: <m0ruk20-0006Z3C@awinc.com>
Rendered body type: text/plain

On thursday,march 30,Kent Larson wrote
>The author...has most definitely earned..whatever minimal fee he is asking for.
Dam rite,Kent,thanks for voicing your opinion.
Besides,it seems to have gone unnoticed how many maps of this world are
available in DXF.Basically every serious true mapping software has a
DXF export facility,that means every government,utility,oil company and
you name itcan make a map available in DXF format.And, believe me,those
are usually not mickey mouse maps.

Gerhard Riedmann

323. APRSSIG:529

From: griedman@awinc.com (G.Riedmann)
Date: Fri, 31 Mar 95 08:59 PST
To: APRSSIG@TAPR.ORG
Message-ID: <m0ruk2Q-00017CC@awinc.com>
Rendered body type: text/plain

On thursday,march 30,Kent Larson wrote
>The author...has most definitely earned..whatever minimal fee he is asking for.
Dam rite,Kent,thanks for voicing your opinion.
Besides,it seems to have gone unnoticed how many maps of this world are
available in DXF.Basically every serious true mapping software has a
DXF export facility,that means every government,utility,oil company and
you name itcan make a map available in DXF format.And, believe me,those
are usually not mickey mouse maps.

Gerhard Riedmann

324. APRSSIG:529

From: griedman@awinc.com (G.Riedmann)
Date: Fri, 31 Mar 95 08:59 PST
To: aprssig@tapr.org
Message-ID: <m0ruk2S-0006YxC@awinc.com>
Rendered body type: text/plain

>To: APRSSIG@TAPR.ORG
>From: griedman@awinc.com (G.Riedmann)
>Subject: APRSSIG:529
>Cc:
>Bcc:
>X-Attachments:
>
>On thursday,march 30,Kent Larson wrote
>>The author...has most definitely earned..whatever minimal fee he is asking for.
>Dam rite,Kent,thanks for voicing your opinion.
>Besides,it seems to have gone unnoticed how many maps of this world are
>available in DXF.Basically every serious true mapping software has a
>DXF export facility,that means every government,utility,oil company and
>you name itcan make a map available in DXF format.And, believe me,those
>are usually not mickey mouse maps.
>
>Gerhard Riedmann
>

325. Re: [APRSSIG:536] Re: Welcome...

From: K2ADJ@aol.com
Date: Fri, 31 Mar 1995 12:19:59 -0500
To: aprssig@tapr.org
Message-ID: <950331121957_67333264@aol.com>
Rendered body type: text/plain

Bob says that storing the Digipath works in his personal 6.7b. I am
beginning to wonder if it might be our use of the proper commands?

Will check it again when 6.7B is released.

73 de Rod

326. DXF to map

From: griedman@awinc.com (G.Riedmann)
Date: Fri, 31 Mar 95 09:25 PST
To: aprssig@tapr.org
Message-ID: <m0rukRo-0006Z4C@awinc.com>
Rendered body type: text/plain

It seem to have gone unnoticed in this discussion, how many maps of
this world are available in DXF format.Basically every serious mapping
software can export a map in DXF.That means, just about every government
office,utility,oil company and you name it can make their maps available in
DXF.Those maps are usually precision maps and very useful.I tend to think
that nobody would have to make their own APRS maps anymore once people would
start tapping into the enormous map database out there.I sure like to have a
copy of the DXFtomap program and gladly pay \$25 +.
gerhard riedmann

327. DISTRIBUTION STATUS

From: "Postmaster" <POSTMSTR@SSWP.HCC.COM>
Date: 31 Mar 1995 12:39:12 GMT
To: aprssig@tapr.org


```

RECIPIENT      : AMGDAL.HUGHES1
LAST NAME      : HUGHES
FIRST NAME     : PATRICK
MIDDLE INITIAL :
INITIALS       : M
NATIVE NAME    : AMG/AMGDAL/HUGHES1
COUNTRY        : US
ADMD           : TELEMAIL
PRMD           : HOECHST
ORGANIZATION   :
ORG UNIT 1     :
ORG UNIT 2     :
ORG UNIT 3     :
ORG UNIT 4     :
DDA            :
TITLE          : APP RES MGR
DESCRIPTION     :
USERDATA       :

```

HUGHES1
PATRICK

```

3089      YA0870147161HUGHES
M      4 CG-HQS-DALLAS      UNITED STATES      L
TELEPHONE      : 8883807

```

From: K2ADJ@aol.com
Date: Fri, 31 Mar 1995 13:21:27 -0500
To: APRSSIG@tapr.org
Cc: Bruninga@greatlakes.nadn.navy.mil
Message-ID: <950331132126_67391295@aol.com>
Rendered body type: text/plain

Yes, there was a problem with the storing of the Digipeater Paths but in reality there is no real problem, only that you have to perform another function..

When you O-D-V and SAVE the different digipeater paths, when you O-D-L you will see them all as you saved them BUT they are stored ONLY in RAM, not in any file!

For you to use them again, lets say tomorrow, you MUST use the ALT-S to save them (Digipath list) to the config file. YUP, it works....

73 de Rod

330. Help with HSP cable - followup

From: janderson@ram.net (Jack Anderson)
Date: Fri, 31 Mar 95 13:33:19 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a3b@ram.net>
Rendered body type: text/plain

I forgot to mention this in my first message. I did add the second diode in series with the first, as mentioned in GPS.TXT. No apparent improvement, but I want to try it again WITHOUT the series diode just for grins.

Jack

331. [APRSSIG:535] Digipeater paths

From: YVES1@delphi.com
Date: Fri, 31 Mar 1995 14:41:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01H0SFGFC6KY8WYSTV@delphi.com>
Rendered body type: text/plain

> Return-path: <aprssig@tapr.org>
> Received: from dingus.n5lyt.datarace.com by delphi.com (PMDF V4.3-9 #7804)
> id <01H0S601ZBJK93612J@delphi.com>; Fri, 31 Mar 1995 10:09:46 -0500 (EST)
> Received: from dingus.n5lyt.datarace.com (localhost [127.0.0.1])
> by dingus.n5lyt.datarace.com (8.6.10/8.6.9) with SMTP id JAA11766; Fri,
> 31 Mar 1995 09:01:54 -0600
> Date: Fri, 31 Mar 1995 09:01:54 -0600
> From: eashway@VNET.IBM.COM
> Subject: [APRSSIG:535] Digipeater paths
> Sender: aprssig@tapr.org
> To: aprssig@tapr.org
> Reply-to: aprssig@tapr.org
> Message-id: <199503311449.IAA11689@dingus.n5lyt.datarace.com>
> Content-transfer-encoding: 7BIT
> Originator: aprssig@tapr.org
> Precedence: bulk

> I am running 6.7a on a 1MB 286 and have NO trouble storing and retrieving
> digipeater path information via the O-D functions.
>
>
> Ed - W9KTH
>

Yes Ed, no problem here either, BUT can you save the info from one session to another? That's my specific problem.

According to several here in the aprssig, this has been noticed by several users.

Tnx!
73
Al W1EOX

332. 4 copies of APRssig:529

From: griedman@awinc.com (G.Riedmann)
Date: Fri, 31 Mar 95 12:16 PST
To: aprssig@tapr.org
Message-ID: <m0run7e-0006Z3C@awinc.com>

Rendered body type: text/plain

Sorry,something went wrong on this end.My mailserver seemingly had a problem.No,indeed,the message wasn't that important.

G.Riedmann

333. Re: [APRSSIG:544] Re: Welcome...

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 31 Mar 1995 16:34:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950331163232.192798@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 31 Mar 1995 K2ADJ@aol.com wrote:

> Bob says that storing the Digipath works in his personal 6.7b. I am
> beginning to wonder if it might be our use of the proper commands?
>
> Will check it again when 6.7B is released.
>
> 73 de Rod

APR REPLY: G0od thought. To save the digipath you use the O-D-V command , but that is only temporary. You must do an ALT-S-SAVE to re-save your config file before those DIGIPATHS are REMEMBERED...

334. Re: [APRSSIG:547] Help with HSP cable

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 31 Mar 1995 16:46:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950331163712.19279C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 31 Mar 1995, Jack Anderson wrote:

> I just received a GARMIN GPS-45 from work and decided to get it hooked up to
> my 386SX-25 laptop. I built an HSP cable from the schematic in GPS.TXT and
> tried it for the first time on a 6.5 hour trip from DC to NJ and back
> yesterday. [APR COMMENT: Yup, I saw him ALL THE WAY and BACK. 300 miles]
>
> I don't think it's working right though. I have the refresh and xmit rate
> set at 10/33. The position filter is set for 30'. I see a lot of I/O
> glitches and "NEMA glitch-lings". I can see APRS "toggle for NEMA", then "Got
> good NEMA fix", but the position is not updated, sometimes not for more than
> a mile or two at 60 MPH.

APR COMMENT: Could be related to problem below. If the data was garbled with a colision with incomming TNC data, then APRS "GOT" the NMEA data, but then threw it away because it didnt look right... That may be the missing posits. Garbled colisions would surely show the I/O glitch warning.

> Occassionally I see some TNC data intermixed when in OPS-COM-GPS screen

APR COMMENT: You do not have the TNC handshaking properly. Be sure that you are set up for hardware handshaking, and that your TNC does use DTR to hold off data. PACCOMM TNCs use RTS... Looks like I should force hardware handshaking mode when in HSP. I believe the command is XFLOW OFF.

Jack, what was your path? W,W,W? or sis you modify it as you go? When I got home, I had a continuous plot of your trip from Vienna to Philadelphia and back. (then I got to keyboard dancing and lost it all!) So I didnt get to see what paths you used. NOTE TO EVERYONE ELSE, the eastern seaboard from central VA to Connecticut has 12 WIDE digi's. F0rtunately, I live in about the middle, so even with W,W, I probably could see everything..

335. Re: [APRSSIG:553] Re: Help with HSP cable

From: janderson@ram.net (Jack Anderson)
Date: Fri, 31 Mar 95 18:46:54 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a3e@ram.net>
Rendered body type: text/plain

>APR COMMENT: Could be related to problem below. If the data was garbled
>with a collision with incomming TNC data, then APRS "GOT" the NMEA data,
>but then threw it away because it didnt look right... That may be the
>missing posits. Garbled colisions would surely show the I/O glitch warning.

I reworked the HSP switch completely. It may have helped the "glitchling" messages, but I still seem to be having some problems.

After testing again, I'd characterize the problem as follows:

With P-rate set to 10/37, I see APRS toggle for NMEA every ten seconds, and most of the time, immediately see "Got good NMEA fix". Very occasionally I see NMEA glitches but they are usually followed immediately with "Got good NMEA fix".

The problem is this - frequently I do not see the posit updated on the map after the "Got good NMEA data" message, even when moving along pretty fast, even with a seven sat GPS fix, even with the GPS-45 showing data continuously updated, in other words, no breaks in GPS coverage and plenty of change in location from the previous 10 second NMEA poll. I've seen it go through over four minutes of 10 second polls with no update to the screen, after travelling about two miles - all the while giving "Got good NMEA fix" messages (with an occasional glitch). APRS interprets this as still being in the same spot, and the decay rate multiplies every time it XMITs until the interval changes from 37 seconds to over seven minutes. Eventually the posit on the map gets updated and things recycle from there.

>> Occasionally I see some TNC data intermixed when in OPS-COM-GPS screen
>
>APR COMMENT: You do not have the TNC handshaking properly. Be sure that
>you are set up for hardware handshaking, and that your TNC does use DTR
>to hold off data. PACCOMM TNCs use RTS... Looks like I should force
>hardware handshaking mode when in HSP. I believe the command is XFLOW OFF.

I'll check that out. This is an MFJ 1278BT. I think I may already have hardware handshaking enabled. "Normal" hardware handshaking uses RTS/CTS, at least that's been my personal experience in the dialup modem world. DTR is usually used (in dialup modems) to tell the modem to go on-hook. So, do you think I should try changing things around?

>Jack, what was your path? W,W,W? or sis you modify it as you go? When I
>got home, I had a continuous plot of your trip from Vienna to
>Philadelphia and back. (then I got to keyboard dancing and lost it all!)
>So I didnt get to see what paths you used. NOTE TO EVERYONE ELSE, the
>eastern seaboard from central VA to Connecticut has 12 WIDE digi's.
>Fortunately, I live in about the middle, so even with W,W, I probably
>could see everything..

I was using W,W until Joppatowne, then went APR-11,APR-1,K4LV,N4ULS,WD4HDL-1. When I got to the Audubon/Mount Laurel area, I used N2FET-15, N2IPH-15, APR-11, APR-1, K4LV, N4ULS, WD4HDL-1. This worked great for folks back here in Vienna - I played my HST back when I got home and it showed good coverage back to Vienna with a big hole between the MD-DE line and about 20 miles into NJ, but solid performance with the N2FET-15...WD4HDL-1 path.

Jack

336. Re: [APRSSIG:532] Re: MacGPS_45_v0-1

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Fri, 31 Mar 95 08:56:41 EST
To: aprssig@tapr.org
Message-ID: <9503311356.AA02817@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

use site name ftp.tapr.org works fine on AOL.

>OK, OK, I ADMIT I DON'T PAY ATTENTION TO WHAT AOL DOES OUTSIDE OF THEIR
>"NORMAL" STUFF. I'M CURRENTLY TRYING TO NAVAGATE THE FTP SEARCH LIST AND
>CANNOT GET A HIT ON ANYTHING I TRY. SO, WHERE DO I GO TO FINR THE TAPR SITE??
>
>Thanks, Jeff - WA6EQU

Bob Baltz
Chesapeake Region Sales
Ph: (410) 987- 8777
Fax: (410) 987-8777
E-mail Bobb@ustc.vlsi.com

337. [APRSSIG:536] Re: Welcome plus 2 Proble

From: YVES1@delphi.com
Date: Fri, 31 Mar 1995 22:37:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01H05W3AVR36936MD3@delphi.com>

Rendered body type: text/plain

> From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
> Subject: [APRSSIG:536] Re: Welcome plus 2 Problems
> In-reply-to: <950331001406_66932794@aol.com>
> Sender: aprssig@tapr.org
> To: aprssig@tapr.org
> Reply-to: aprssig@tapr.org
>>>>
> I tried 67b again last night and still the DIGIPATHS save works fine...
>
> I didnt change anything between 67a and 67b (that I know of).
>
> So if anyone that is having probs with the DIGI paths in 67a and can
> eventually test 67b, please lemme know if there is a difference or if the
> problem persists.

Video problems solved (video driver problem, simple in retrospect!!!!) BUT
still having the same save problem with the digi paths in 67b.

Remember now I have no problem saving or listing the pathes **within** a
session, the problem is only when closing a session and trying to save the
information, and bring it back into a new session.

Wish there were some kind of "cfigdigi.dat" file that would be created when
you save stuff before closing out a session!

Oh well, what do I know! Thanks very much for the followup.

73

Yves Albert (Al {"Al"}) Feder
Yves1@Delphi.com
W1EOX

338. Re: [APRSSIG:556] Re: Welcome...

From: N9VJQ@aol.com
Date: Fri, 31 Mar 1995 23:58:23 -0500
To: aprssig@tapr.org
Message-ID: <950331235606_68005391@aol.com>
Rendered body type: text/plain

On Mar 31, 1995, Yves Albert (Al {"Al"}) Feder wrote:

>Remember now I have no problem saving or listing the pathes **within** a
>session, the problem is only when closing a session and trying to >save the
>information, and bring it back into a new session.

I hope you'll excuse a real stupid question, but doesn't a save require a
validation no?

Like I said it was a stupid question.

73 barry N9VJQ

n9vjq@aol.com

April 1995

Original source file: aprssig.9504

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1995-04/TAPR-APRS_1995-04.txt

1. Need APRS .INI file

From: Kent Larson <klaron@access.digex.net>
Date: Sat, 1 Apr 1995 07:57:43 -0500 (EST)
To: APRSSIG <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950401072751.794A-100000@access1.digex.net>
Rendered body type: text/plain

Hello Bob - APR,

I keep seeing questions and suggestions concerning using several types of setup/config files. I have always wanted APRS to do two things.

First, save ALL parameters that can be customized via menus in a config file so if I do not want labels, borders or roads to come up I do not have to reset them every time I load APRS.

Second, use the previous config file to update the new config file when upgrading versions.

I think a config file structured like a Windows INI file may do the trick. This would eliminate having to put each parameter on a specific line number in the file. It could look something like --

```
[mapcmd_features]
all=on
borders=off
calls=on
dim=off
headings=on
labels=off
etc...
```

```
[controls]
bcns=on
dx=off
fade=on
hf=off
log=off
etc...
```

```
[digipaths]
o=wide,wide
e=wb4apr-1,wide
w=wd4hdl-1,wide
etc...
```

```
[restore_tnc]
be=off
etc...
```

Notice how I structured the [groups] around the menus.

APRS could spin through the file when it loads and set the parameters accordingly. When someone installs an upgrade and the INI file already exists APRS could use, insert or delete whatever parameters it wants.

Sure would make my life a lot easier and the config file would make sense when you looked at it.

I understand this method may not work with the way APRS is coded but it would be a nice feature if practical.

Anyone else like this idea or have a better one?

Kent

2. What does it mean?

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 1 Apr 1995 08:53:04 -0500 (EST)
To: aprssig <aprssig@tapr.org>
Message-ID: <Pine.3.89.9504010815.A1919-0100000@bcfreenet.seflin.lib.fl.us>

Rendered body type: text/plain

Would someone please explain the message on the lower right hand side of the screen saying "Channel loading is xx.x%".

de KB4XE

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

3. Re: [APRSSIG:554] Re: Help with HSP cable

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sat, 1 Apr 1995 11:53:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950401114453.21279C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 31 Mar 1995, Jack Anderson wrote:

> I reworked the HSP switch completely. It may have helped the "glitchling"
> messages, but I still seem to be having some problems.
>
> After testing again, I'd characterize the problem as follows:
>
> The problem is this - frequently I do not see the posit updated on the map
> after the "Got good NMEA data" message, even when moving along pretty fast,
> even with a seven sat GPS fix, even with the GPS-45 showing data continuously
> updated, in other words, no breaks in GPS coverage and plenty of change in
> location from the previous 10 second NMEA poll. I've seen it go through over
> four minutes of 10 second polls with no update to the screen, after

APR reply: Hummh. Pse tell me this. WWhen you are "getting good NMEA"
but do NOT see an update on the map, hit the space bar and see if the new
plot is posted. I need to know if the FIX is not getting recognized, or
more simply, the new fix is simply NOT getting plotted until the next
packet goes out.

ANOTHER test that would be useful, would be to hit the P-LIST every 10
seconds and see if the posit is being updated, but just not displayed...

> hardware handshaking enabled. "Normal" hardware handshaking uses RTS/CTS, at
> least that's been my personal experience in the dialup modem world. DTR is
> usually used (in dialup modems) to tell the modem to go on-hook. So, do you

APR REPLY: I agree that many people use RTS, but after my 20 years of
messing with RS-232, I was surprised when I re-read the SPEC and realized
that the definition of RTS (from the terminal to the modem that says I am
ready to SEND data, actually has NOTHING to do with whether the terminal
is ready to RECEIVE data. Only the DTR line can say that according to
the SPEC. SO there we have the problem. The SPEC says one thing, and
a lot of folks have by default done something else (to save one wire)

4. Re: [APRSSIG:558] Need APRS .INI file

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sat, 1 Apr 1995 12:04:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950401120252.21279F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 1 Apr 1995, Kent Larson wrote:

> I keep seeing questions and suggestions concerning using several types of
> setup/config files. I have always wanted APRS to do two things.
>
> Use the previous config file to update the new config file when
> upgrading versions.
>
> I think a config file structured like a Windows INI file may do the
> trick. This would eliminate having to put each parameter on a specific
> line number in the file.

APR REPLY: Good idea. Will probably do that when I get arround to it...
hi hi

5. Re: [APRSSIG:559] What does it mean?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sat, 1 Apr 1995 12:11:47 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950401120448.21279G-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 1 Apr 1995, William Manley wrote:

> Would someone please explain the message on the lower right hand side of
> the screen saying "Channel loading is xx.x%".

APR REPLY: Since APRS is operating on a CSMA channel, the nominal throughput of such a channel is about 36% of total channel capacity. But since we use digipeaters and we have the ole' hidden transmitter problem which makes more collisions, the actual throughput is less. Therefore I assumed that the APRS frequency is 100% loaded when it is passing packets 30% of the time. If the channel was passing continuous packets (100% of original channel capacity) then you could see the APRS channel capacity go up to 330%!

But this is all theoretical, since if the channel is 100% busy, then you can also say that NOONE else is getting through. That's why if you are hearing packets more than 30% of the time, then there are a lot of stations out there that are NOT getting through (PROBABLY)...

6. QRP single freq HF rig

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sat, 1 Apr 1995 12:20:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950401121341.21279H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I have seen the ad for a 5 watt HF single band QRP kit for \$69. I was all ready to buy it, but they didn't answer the phone on the weekend, and by the time Monday rolled around I had lost the ad. IF IT WORKS, it could make a nice "under-the-seat" GPS tracking transmitter for the 10.151 MHz APRS tracking net.

It is NOT the separate RCVR, XMTR, and PA sold by RAMSEY... The unit costs add up to more than \$69....

7. Re: [APRSSIG:560] Re: Help with HSP cable

From: janderson@ram.net (Jack Anderson)
Date: Sat, 01 Apr 95 12:56:24 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a42@ram.net>
Rendered body type: text/plain

>APR reply: Hummh. Pse tell me this. When you are "getting good NMEA"
>but do NOT see an update on the map, hit the space bar and see if the new
>plot is posted. I need to know if the FIX is not getting recognized, or
>more simply, the new fix is simply NOT getting plotted until the next
>packet goes out.
>

>ANOTHER test that would be useful, would be to hit the P-LIST every 10
>seconds and see if the posit is being updated, but just not displayed...

No new posit is posted when I hit the spacebar, and the position in the P-List stays the same throughout. I notice the P-list says "Last NMEA fix". It's like it is reading the NMEA data and seeing the same position from the GPS every time it toggles. I guess I can play the NMEA data to see if it changes, but it moves too fast for me to see in OPS-COMM-GPS. It's possible the GPS could have a problem, but it is brand new, and maintains GPS lock the whole time this is happening.

8. Re: RTS/CTS

From: janderson@ram.net (Jack Anderson)
Date: Sat, 01 Apr 95 13:00:12 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a43@ram.net>
Rendered body type: text/plain

>APR REPLY: I agree that many people use RTS, but after my 20 years of
>messing with RS-232, I was surprised when I re-read the SPEC and realized
>that the definition of RTS (from the terminal to the modem that says I am
>ready to SEND data, actually has NOTHING to do with whether the terminal
>is ready to RECEIVE data. Only the DTR line can say that according to
>the SPEC. So there we have the problem. The SPEC says one thing, and
>a lot of folks have by default done something else (to save one wire)

I agree completely. As long as the DCE knows what you are doing this should work fine. If you toggle DTR on most dialup modems, they will go on-hook, terminating any active connection that may be up. They seem to be looking at RTS/CTS to control the flow of data.

Jack

9. Re: [APRSSIG:558] Need APRS

From: W2H0B@aol.com
Date: Sat, 1 Apr 1995 13:16:13 -0500
To: aprssig@tapr.org
Message-ID: <950401131611_68375022@aol.com>
Rendered body type: text/plain

Hello all... I'm new to APRSSIG, but not to APRS. I read with interest a comment from someone who thought it would be a good idea if APRS would save its configuration in a .INI file similar to WINDOWS so APRS would boot up exactly the way you would want it to.

I agree and have wanted to mention this to Bob, APR, but I am one of the great procrastinators! I think this would be invaluable for applications such as a standalone receive-only terminal at a place such as the NWS/NOAA office where forecasters may be watching amateur radio/SKYWARN reports... if they lost power or took any glitch and found it necessary to reboot their computer, it would come up in exactly the configuration they wanted it to be in.

How about that Bob... any possibility this is feasible? 73 de Boyd

10. Re: [APRSSIG:562] Re: What does it mean?

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 1 Apr 1995 16:05:11 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9504011535.A12169-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Gee Bob,
T U for the explanation. Now I feel better while understanding that no surepticious (sp?) messages are being passed.

Perhaps in the future (version 8.8c) you might consider adding a README explaining the more esoteric aspects of APRS (I'll say it for you: Hi, Hi). It's a great program Bob and, as you can see from the posted interest, it has wide application. Some of us (at least me) like to understand what is happening within the program as we enjoy its application.

regards,
KB4XE

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

> On Sat, 1 Apr 1995, Robert Bruninga wrote:
>
> On Sat, 1 Apr 1995, William Manley wrote:
>
> > Would someone please explain the message on the lower right hand side of
> > the screen saying "Channel loading is xx.x%".
>
> APR REPLY: SInce APRS is operating on a CSMA channel, ... etc.
>

11. [APRSSIG:548] Digipeater Problem Solved

From: brad@ecst.csuchico.edu (Bradley L Ambers)
Date: Sat, 1 Apr 1995 13:19:09 -0800
To: aprssig@tapr.org
Message-ID: <199504012119.NAA20778@hairball.ecst.csuchico.edu>
Rendered body type: text/plain

Yes, there was a problem with the storing of the Digipeater Paths but in reality there is no real problem, only that you have to perform another function..

When you O-D-V and SAVE the different digipeater paths, when you O-D-L you will see them all as you saved them BUT they are stored ONLY in RAM, not in any file!

For you to use them again, lets say tomorrow, you MUST use the ALT-S to save them (Digipath list) to the config file. YUP, it works....

73 de Rod

12. dead recjib reckoning on hf

From: gpoland@aztec.asu.edu (GEORGE J. POLAND)
Date: Sat, 01 Apr 1995 14:40:15 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <9504012140.AA16074@aztec.asu.edu>
Rendered body type: text/plain

I have noticed that dead reckoning seems to work fine on vhf but not on hf and after changing this and that, if you remove the word 'gate' from your unproto path and press C-V then the HF dead reckoning works when you input data via the I-M procedure.

Am I imagining this problem, as no one else seems to notice it.

73, george - w8fwf

13. Subscribe

From: largriff@onramp.net
Date: Sat, 1 Apr 1995 16:21:43 -0600
To: aprssig@tapr.org
Message-ID: <199504012221.QAA16775@ns.onramp.net>
Rendered body type: text/plain

How can I join or subscribe to this SIG?

14. Re: [APRSSIG:564] Re: Help with HSP cable

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Sun, 02 Apr 1995 08:44:11 -0400
To: aprssig@tapr.org
Message-ID: <9504021346.AA00414@netaxis.com>
Rendered body type: text/plain

Bob, this is basically the same problem that I am seeing without the TNC connected. I was out with just my laptop connected to the Garman GPS-45. I was the person who brought the GPS-45 problem to your attention concerning missing Altitude fixes.

Is there a possibility that the GPS-45 is sending too much data to the APRS program and possibly over running a buffer? I checked the the users guide and there is no mention of a way to select what sentences are output from the 45 or what rate the updates are output.

>>APR reply: Hummh. Pse tell me this. WHen you are "getting good NMEA"

>>but do NOT see an update on the map, hit the space bar and see if the new

>>plot is posted. I need to know if the FIX is not getting recognized, or

>>more simply, the new fix is simply NOT getting plotted until the next

>>packet goes out.

>>

>>ANOTHER test that would be useful, would be to hit the P-LIST every 10

>>seconds and see if the posit is being updated, but just not displayed...

>

>No new posit is posted when I hit the spacebar, and the position in the

>P-List stays the same throughout. I notice the P-list says "Last NMEA

>fix". It's like it is reading the NMEA data and seeing the same position from

>the GPS every time it toggles. I guess I can play the NMEA data to see if it

>changes, but it moves too fast for me to see in OPS-COMM-GPS. It's possible

>the GPS could have a problem, but it is brand new, and maintains GPS lock the

>whole time this is happening.

>

>

//-----

hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

15. More on HSP problems

From: janderson@ram.net (Jack Anderson)
Date: Sun, 02 Apr 95 10:16:14 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a46@ram.net>
Rendered body type: text/plain

Bob,

I just completed some more testing with my HSP cable. I have a few more observations.

I did confirm that the GPS unit is sending updated posits in the NMEA data. Using OPS-COMM-GPS, I was able to track the lat/lon changes while in a moving vehicle, during a period where APRS was not updating the position even when getting "Got good NMEA fix" messages every ten seconds. I also confirmed that the 1278 was properly config'd for hardware handshaking. I even swapped the 1278 with my KPC-3, same thing.

This is beginning to look a lot like a timing issue. I assume that APRS "opens a window" at the specified interval to grab NMEA data from the GPS, then switches back to the TNC. What if the window is not long enough to grab ALL the NMEA data, just some of it, enough for APRS to think it got a good NMEA fix, but with no new posit data. The reason I think this might be happening is that I have noticed a pattern to the way it works and doesn't work. It will get four or five good updates and plot them on the map, then, for the next 1-4 minutes, report "Got good NMEA fix" but not update the map or the P-list. If observed long enough a fairly steady pattern becomes apparent. It's almost as if APRS goes in and out of sync with the NMEA data coming from the GPS. Sort of like this:

```
HSP-----HSP-----HSP-----HSP-----HSP-----HSP-----HSP HSP toggles
LL-----LL-----LL-----LL-----LL-----LL-----LL NMEA L/L trnsmsns
**                      **                      **                      ** good L/L captures
```

Now, not knowing how APRS handles this, I might be wrong, but this is what it seems like is happening.

Jack

16. Re: [APRSSIG:566] Re: Need APRS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 2 Apr 1995 16:55:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950402165207.23093D@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 1 Apr 1995 W2H0B@aol.com wrote:

> Hello all... I'm new to APRSSIG, but not to APRS. I read with interest a
> comment from someone who thought it would be a good idea if APRS would save
> its configuration in a .INI file similar to WINDOWS so APRS would boot up
> exactly the way you would want it to.
>
> I think this would be invaluable for applications such
> as a standalone receive-only terminal at a place such as the NWS/NOAA office
> where forecasters may be watching amateur radio/SKYWARN reports...

ANSWER: APRS already comes up from a CONFIG file in exactly the mode you want it. Am I missing something?
The only issue that I have heard of is having to RE-CONFIGURE each time the user starts up a NEW aprs version with a DIFFERENT config file format.

17. PK-12 with Standalone mode

From: mwalker@gold.interlog.com (Mike Walker)
Date: Sun, 02 Apr 95 18:32:58 EDT
To: aprssig@tapr.org
Message-ID: <199504022233.SAA08029@gold.interlog.com>
Rendered body type: text/plain

I have received an updated EPROM for the good people at AEA. This problem solves the problem with the course and speed from a mobile user.

Now, all the DOS users are getting a course and speed vector, but the people with the current version of the Mac software are not.

If you are using a PK-12 in standalone mode, then you should get a new eeprom from AEA. As far as I am aware, this is the only problem the update addresses.

(BTW, it seems as if my subscription to this sig was deleted. Is there something I have to do to "renew it"?)

Regards...mike

Mike Walker
127 High St. W.
Mississauga, ON

mwalker@interlog.com
va3mw@va3bbs

18. subscribe

From: Rudy Hardy <rudyh@tenet.edu>
Date: Sun, 2 Apr 1995 18:53:09 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.OSF.3.91.950402185230.3700A-100000@Gayle-Gaston.tenet.edu>
Rendered body type: text/plain
subscribe

19. VHF Frequency in Canada

From: mwalker@gold.interlog.com (Mike Walker)
Date: Sun, 02 Apr 95 20:54:06 EDT
To: aprssig@tapr.org
Message-ID: <199504030054.UAA20167@gold.interlog.com>
Rendered body type: text/plain
Subject: VHF Frequency in Canada

About 2 months ago those in charge of Bandplanning have authorized the following frequency for continuous APRS coverage:

145.390 MHz

In the Toronto area we already have one Digi set up (VE3YYZ) and occassionaly you will see a Gate set up.

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

20. MacAPRS for PowerPC

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sun, 2 Apr 95 21:17:07 EDT
To: aprssig@tapr.org
Cc: sproul@eos.ap.org
Message-ID: <CMM-RU.1.4.796871827.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The PowerPC version of MacAPRS 1.4.2 is now up on both ftp.tapr.org and ftp.ucsd.edu.

If you have a PowerPC, you REALLY should get this version! It is FAST!!

Also, if you DO have a PowerPC, and DO get this version, please let me know.

Keith Sproul

Keith Sproul
Student Housing Network Coordinator
Rutgers University Computing Services

WUZZ
ksproul@noc.rutgers.edu
908 445-3695 Work
908 821-4828 Home

21. Re: [APRSSIG:573] Re: Need AP...

From: K2ADJ@aol.com
Date: Sun, 2 Apr 1995 22:16:38 -0400
To: aprssig@tapr.org
Message-ID: <950402221634_69583592@aol.com>
Rendered body type: text/plain

Config file like the "*.ini" files in windows..

What the gang is also refering too Bob is the fact that when you load up the system and the map is displayed, all those things you do for your likeing, such as What you want to display, such as Labels, callsigns, types of objects you have to do it every time you bring up APRS, the reason being, when you set up the system to the way you want it, then ALT-S-SAVE, those other things like labels, callsigns, tint, object in the just-one...etc ARE NOT SAVED TO the present config file.

22. Re: [APRSSIG:576] VHF Frequency in Canada

From: dhenders@InterServ.Com
Date: Sun, 2 Apr 95 19:32:42 PDT
To: aprssig@tapr.org
Message-ID: <9504030232.AA01906@ InterServ.Com>
Rendered body type: text/plain

Are you sure of that freq. (145.39). That is a repeater output freq.

I think you meant 144.39. Unfortunately for the satellite people that is an Oscar freq.

73, Dave, N3EOY

23. Re: [APRSSIG:573] Re: Need AP...

From: W2H0B@aol.com
Date: Sun, 2 Apr 1995 22:37:26 -0400
To: aprssig@tapr.org
Message-ID: <950402223725_69607431@aol.com>
Rendered body type: text/plain

Well, Bob, the "default" booting I was thinking of is something like:

MAP-FEATURES-DIM
MAP-FEATURES-CALLS (OFF)
MAP-FEATURES-LABELS (OFF)
LOGGING OFF
DEAD RECKONING OFF

Right now, I must turn each of these features on or off when I boot APRS.
Yes, I know the program boots from the CFG file of which several could be kept, but some of the features above default to ON conditions. The program does remember BEEPS on or off!

Have I missed something or has 6.7b included my wish list above?! I really need to sit and read the latest docs!

73 de Boyd AR

24. problem in 6.7a

From: Cap Pennell <cap@cruzio.com>
Date: Mon, 3 Apr 95 1:37:27 PDT
To: aprssig@tapr.org
Message-ID: <199504030837.BAA04891@mail.netcom.com>
Rendered body type: text/plain

I can't seem to mark large areas on the map in 6.7a. I used to be able to draw a large colored circle after hitting: home (the center of the circle) and then moving the cursor to the edge of the circle I wanted. I would then hit: I,A,<CR>,<CR>,test1,0,A,C,Y,10,<CR>,<CR>,Y
This no longer seems to work in version 6.7a (snivel,snivel). Suggestions?

--

```
+-----+
| Cap Pennell                      email: cap@cruzio.com          |
| Santa Cruz, CA                  packet radio: ke6afe@kg6ee.#nocal.ca.usa.noam |
|                               Lat:36degs,58mins,55secsN.  Long:122degs,00mins,53secsW. |
+-----+
```

25. Re: PK-12 and standalone mode

From: mwalker@gold.interlog.com (Mike Walker)
Date: Mon, 03 Apr 95 08:11:11 EDT
To: ke6jgn@garlic.com
Cc: aprssig@tapr.org
Message-ID: <199504031211.IAA26408@gold.interlog.com>
Rendered body type: text/plain

On Sun, 2 Apr 1995 21:37:18 -0700 you wrote:

>Mike,
>I saw your post on the APRSSIG about the new EPROM fixing the course and speed
>problem in the PK-12. You said that is the only problem that the update fixes,
>what are the other problems? I also have a PK-12, and I will call tomorrow to
>get a new EPROM.

>
>Brent , ke6jgn@garlic.com
>
Hello Brent,
I haven't found any other problems with the PK-12 yet, as I have been
using it ONLY for GPS. As far as I have heard it works fine for all
its other features. The fix only affects course and speed when you
have a GPS plugged into the RS-232 port. Nothing else (there was a
CRLF missing between the \$GNMEA1 sentence and the \$GNMEA2 sentence.)

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4
mwalker@interlog.com
rf: va3mw@va3bbs

26. Re: [APRSSIG:579] Re: VHF Frequency in Canada

From: mwalker@gold.interlog.com (Mike Walker)
Date: Mon, 03 Apr 95 08:24:13 EDT
To: aprssig@tapr.org
Message-ID: <199504031224.IAA27158@gold.interlog.com>
Rendered body type: text/plain

On Sun, 2 Apr 1995 21:44:04 -0500 you wrote:

>Are you sure of that freq. (145.39). That is a repeater
>output freq.
>
>I think you meant 144.39. Unfortunately for the satellite
>people that is an Oscar freq.
>
>73, Dave, N3EOY
>
>
oopsss it is 144.390 MHz,

Which satellite does that affect? I thought it most of the satellite
downlinks were in the upper 145 Mhz (ie: AO-13 beacon is at 145.812,
and RS-10 is at uplinked at 145.910-145.950)

Cheers....mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4
mwalker@interlog.com
rf: va3mw@va3bbs

27. Re:(2) More on HSP problems

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 3 Apr 1995 09:26:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950403091717.25935A@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 2 Apr 1995, Jack Anderson wrote:

>
> I activated alt-S-GPS-InfoGGA and drove around the neighborhood for about 30
> minutes. I have my GPS-45 set for NMEA 0183 2.0. From what I can see in
> O-C-G, it seems to be spitting out the following sentences:
>
> RMC RMB GGA GSA GSV GSV RME GLL RMZ RMM RTE

APR REPLY: And NOW WE SEE THE PROBLEM! Notice that APRS looks for RMC,
GGA or GLL and then looks for VTG. In the case of the GARMIN GPS-45
which outputs all of the NMEA strings above, APRS gets an RMC, then a
GGA, and then while still looking for a VTG (there is none) it begins to
get the GLL. Since it uses the last one obtained, there is a good chance
that it is halfway through parsing the final GLL when the 2 sec timer
gives up on the VTG, which then switches back the HSP. APRS sees an
incomplete GLL or whatever, and aborts the whole thing... resulting in no
POSIT.

THE FIX: Simple, I will just make APRS look for RMC, GGA, and GLL in
heirarchical order. Once it has one, it will NOT continue to accept
additional ones while waiting for the VTG. This FIX will be in 6.8 along
with a new READ MESSAGE screen that keeps MESSAGES OFF the map. This
will keep the map from getting trashed with messages...

28. Re: MAPFIX68.BAS (fwd)

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 3 Apr 1995 09:29:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950403092833.25935C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

----- Forwarded message -----

From: Dan Reilly <72076.2270@compuserve.com>

Bob, Belay my last. By deleting the info screens in MAPFIX68, I have no memory problems. This may be of use to others with scarce memory.

29. Re: [APRSSIG:576] VHF Frequency in Canada

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 3 Apr 1995 09:58:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950403094353.25935D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 2 Apr 1995, Mike Walker wrote:

>

> About 2 months ago those in charge of Bandplanning have authorized the
> 145.39 MHz frequency for continuous APRS coverage throughout Canada

APR COMMENT: In trying to find a universal tracking frequency, it is recognized that there will be conflicts with 145.79 in some areas. But the advantages of a SINGLE continent-wide GPS tracking network will be significant. We are only just beginning to see the tremendous potential of this capability.

My recommendation is that 145.79 be used WHEREVER POSSIBLE, and that exceptions be made on a case-by-case basis. Why put all of CANADA on a different frequency, when only 2 cities have the problem?

In just a few months you will begin to see crackerjack size trackers and all will be XTAL controlled. Remember we are talking about MOBILES, and mobiles do travel. AND the further they travel the MORE IMPORTANT THE TRACKING (usually). Do we want everyone to disappear from GPS tracking systems when they cross the CANADIAN border? Going either way, it's the same...

Yes, many people are using synthesized radios now, but as the GPS tracker becomes an imbedded device used as an everyday appliance, the use of a \$350 radio where a \$99 one will do, will fade away.

I am very pleased to see the effort and results of being able to declare a national CANADIAN GPS tracking frequency, but I would ask that the long term effects of such a commitment be seriously considered...

30. Re: [APRSSIG:581] problem in 6.7a

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 3 Apr 1995 10:03:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950403100158.25935E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 3 Apr 1995, Cap Pennell wrote:

> I can't seem to mark large areas on the map in 6.7a. I used to be able to
> draw a large colored circle after hitting: home (the center of the circle)
> and then moving the cursor to the edge of the circle I wanted. I would then
> hit: I,A,<CR>,<CR>,test1,0,A,C,Y,10,<CR>,<CR>,Y

APR REPLY: Actually that got lost several versions back. Is fixed in 67b. But wait till FRIDAY to get 67b, cuz it will be 68 by then.. hi hi

31. Re: [APRSSIG:571] Re: Help with HSP cable

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Mon, 03 Apr 95 07:13:50 UTC
To: aprssig@tapr.org
Message-ID: <2201@paccomm.com>
Rendered body type: text/plain

Bob,

If I understand WA2TQI's problem, I think it is something we saw in our TNCs some time ago. What we found (and fixed) was something generic to TAPR TNC code which kept the async serial port from being able to copy all of the GPS output, which is quite voluminous as he observes.

The TNC normally gives interrupt priority to the RF port (so it won't miss frames like the GLB 'software HDLC' TNC used to do) based on the idea that a person is inputting characters from a keyboard. When faced with a continuous rush of input on the async port and no flow control, there are numerous overruns and corrupted data.

One tip for the MFJ would be to upgrade to 10 MHz CPU clock speed so that there is more processing resource...

Gwyn Reedy, WIBEL gwyn@paccomm.com WIBEL@amsat.org

+(813) 874-2980 Fax: +(813) 872-8696 BBS: +(813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

32. M-P-R Sometimes won't work

From: Jess Girard <girard@panix.com>
Date: Mon, 3 Apr 1995 10:52:09 -0400 (EDT)
To: APRS Sig <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950403104530.8975A-100000@panix.com>
Rendered body type: text/plain

Hi All:

If I want to get range and bearing on small-scale maps I've no problem, say up to about 100 miles. But when I was talking to a ham in Nova Scotia a few days ago I wanted to know range and bearing the software (v.6.6 at the time) wouldn't do it. I've checked long-range bearings several times and the program wouldn't do it.

Is this a bug? Cockpit error? Another incidence of RTDM (Read the Damn Manual) ?

Jess Girard
ND1L
nd1l@n1cit - tcpip POP server
nd1l@kc2fd.ny - AX25

33. APRS frequency in SOCA

From: mmunster@qualcomm.com (Marvin Munster)
Date: Mon, 3 Apr 1995 10:27:38 -0700
To: aprssig@tapr.org
Message-ID: <199504031727.KAA19773@happy.qualcomm.com>
Rendered body type: text/plain

Can anyone out there give me the frequencies or bandplan for California, or more directly, Southern CA.

Thanks.
Marvin WB6PKK
mmunster@qualcomm.com

34. Re: [APRSSIG:590] APRS frequency in SOCA

From: Dick Mead <mead@skat.usc.edu>
Date: Mon, 3 Apr 95 10:43:47 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.796931027.mead@hamal.usc.edu>
Rendered body type: text/plain

> Can anyone out there give me the frequencies or bandplan for California, or
> more directly, Southern CA.

>
> Thanks.
> Marvin WB6PKK
> mmunster@qualcomm.com
>
>

Marvin,
I don't know of any "plan" in SoCal for APRS, other than by default we have been using the VHF packet repeater on 146.745 (-600) since it sees little use otherwise. There are only 3 or 4 of us there, and that varies.

73,

35. Re: [APRSSIG:590] APRS frequency in SOCA

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Mon, 3 Apr 1995 11:41:25 -0700
To: aprssig@tapr.org
Message-ID: <199504031841.LAA21407@kilroy.jpl.nasa.gov>
Rendered body type: text/plain

At 12:37 PM 4-3-95 -0500, Marvin Munster wrote:
>Can anyone out there give me the frequencies or bandplan for California, or
>more directly, Southern CA.

Marvin,

Share whatever you find with me. NW6H says that the "other packet repeater" (not WB6YMH on 145.36) is being used for APRS. The Orange Book says that is 146.745(-). I haven't got APRS on the air yet, although I have run it.

-Greg

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

36. KPC-3 V6.0 with GPS features

From: largriff@onramp.net (Larry Griffin, AB5GE)
Date: Mon, 3 Apr 1995 13:48:08 -0500
To: aprssig@tapr.org
Message-ID: <199504031848.NAA04407@ns.onramp.net>
Rendered body type: text/plain

I've had the new EPROM from Kantronics for about a month now. It works great! I particularly like being able to remotely set both TNC parameters and GPS parameters. It also allows people to connect to the mailbox and get an instantaneous position report or see a historical list of previous positions. All in all, a very nice energy efficient (15mA) package!

Larry AB5GE !3337.21N/10149.44W-

37. Re: [APRSSIG:589] M-P-R Sometimes won't work

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 3 Apr 1995 15:12:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950403151015.2113A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 3 Apr 1995, Jess Girard wrote:

> If I want to get range and bearing on small-scale maps I've no problem,
> say up to about 100 miles. But when I was talking to a ham in Nova Scotia
> a few days ago I wanted to know range and bearing the software (v.6.6 at
> the time) wouldn't do it. I've checked long-range bearings several times
> and the program wouldn't do it.
>
> Is this a bug? Cockpit error? Another incidence of RTDM (Read the Damn
> Manual) ?

APR REPLY: Its a case of RTDM. Since I do NOT do spherical earth AZIMUTHS, i decided to NOT display bearings above 128miles... FOr shore ranges, by 2 dimensional algortihm is pretty close. But way off when the earth starts getting ROUND...

38. Re: [APRSSIG:590] APRS frequency in SOCA

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 3 Apr 1995 15:15:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950403151304.2113B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 3 Apr 1995, Marvin Munster wrote:

> Can anyone out there give me the frequencies or bandplan for California, or
> more directly, Southern CA.

APR REPLY: Thats a big problem. Since there is NO standard freq in LA, then the users cant find each other, and no one knows the others exist. There are a number registered, but all claim that they cant find anyone else... Good luck. If 145.79 is already in use out there, and you cannot negotiate a shared arrangement, then good luck. Once you get a freq, post it here, so we all know the answer...

39. BETA test of 6.8

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 3 Apr 1995 15:18:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950403151648.2113C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I am just now posting beta68.zip which is a beta test of the fixes that I am putting in APRS to solve the HSP problems with the GARMIN and other verbose NMEA devices.

If you are running HSP, get it and lemme know how it works.

If you do NOT have HSP, do not get it yet... Maybe some more things added later...

40. BETA test of HSP fix

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 3 Apr 1995 15:32:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950403153040.2761A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I just posted BETA68.zip which has BETA68.exe in it. If you have HSP mode, then please try it out. I actually had to name it BETA68E.zip in order to get it posted. but it is the same thing.

ALSO, until the SYSOP moves it over the APRS directory, you may find it in the UPLOADS directory.....

41. Re: [APRSSIG:596] BETA test of 6.8

From: dbbrumm@mtu.edu (Doug Brumm)
Date: Mon, 03 Apr 1995 15:44:24 -0400
To: aprssig@tapr.org
Message-ID: <199504031944.PAA01557@mtu.edu>
Rendered body type: text/plain

Bob Bruninga wrote:

>I am just now posting beta68.zip which is a beta test of the fixes that I
>am putting in APRS to solve the HSP problems with the GARMIN and other
>verbose NMEA devices.

I am new to this group, I have a Garmin 45, and I do not have APRS running yet (no TNC). What is HSP? I have watched the references to it with great interest, but haven't been able to decode what the three letters stand for. Thanks.

Doug Brumm N800N Calumet, MI

42. Re: [APRSSIG:583] Re: VHF Frequency in Canada

From: dhenders@InterServ.Com
Date: Mon, 3 Apr 95 12:52:11 PDT
To: aprssig@tapr.org
Message-ID: <9504031952.AA24232@ InterServ.Com>
Rendered body type: text/plain

<---- Begin Included Message <---->
ooppss it is 144.390 MHz,

Which satellite does that affect? I thought it most of the satellite downlinks were in the upper 145 Mhz (ie: A0-13 beacon is at 145.812, and RS-10 is at uplinked at 145.910-145.950)

Mike Walker
mwalker@interlog.com
<----- End Included Message <----->

The ARRL published bandplan says that is the "new OSCAR subband" what ever that means. I'm not into satellites.

43. Re: [APRSSIG:594] Re: M-P-R Sometimes won't work

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 3 Apr 95 15:57:43 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.796939063.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

Jess Girard wrote:

>> If I want to get range and bearing on small-scale maps I've no problem,
>> say up to about 100 miles. But when I was talking to a ham in Nova Scotia
>> a few days ago I wanted to know range and bearing the software (v.6.6 at
>> the time) wouldn't do it. I've checked long-range bearings several times
>> and the program wouldn't do it.

Bob replied..

>APR REPLY: Its a case of RTDM. Since I do NOT do spherical earth
>AZIMUTHS, i decided to NOT display bearings above 128miles... FOr short
>ranges, by 2 dimensional algorith is pretty close. But way off when the
>earth starts getting ROUND...

I agree with Bob.. If you don't do the spherical trig, the errors get SO large that it isn't worth doing.. Therefore, I put the full spherical trig for this into the Mac version.. You can find distances between any two points in the world.. Even spherical trig has some errors in it due to the fact that the earth is elliptical and not spherical.. I even have some of this in the Mac version, but that is more in the conversion of other types of map data..

These distacnce calculations have proven to be so useful, there is a DIALOG box that you can enter any two items, stations, airports, zipcodes, gridsquares, call signs (if you have the Buckmaster CD) or any combination of these, and it will tell you the distance and bearing between them..

Keith Sproul

Keith Sproul	WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

44. Re: [APRSSIG:595] Re: APRS frequency in SOCA

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Mon, 3 Apr 1995 13:18:25 -0700
To: aprssig@tapr.org
Message-ID: <199504032018.NAA23823@kilroy.jpl.nasa.gov>
Rendered body type: text/plain

According to the "Repeater Location Guide," a local SoCal publication, the 145.700-145.800 range is FM Simplex, and a note says "this is where most of the simplex autopatches are found".

-Greg

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

45. Re: RS-232 standards...

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Mon, 3 Apr 1995 19:21:00 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504040021.TAA06530@solar.cs.tamu.edu>
Rendered body type: text/plain

Robert Bruninga sez:

>

> On Fri, 31 Mar 1995, Jack Anderson wrote:

>

This is essentially correct, in common usage, which has IN REALITY defined the standard.

IEEE RS-232C was adopted over 25 years ago. It has evolved in reality but not very far in documentation. The problem was, the standard, like so many standards, has no force. What you need to do is see what common usage is. THEN one can comply with it, or attempt to redefine how everyone else does things.

73, gerry

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 3 Apr 1995 19:55:09 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504040055.TAA07061@solar.cs.tamu.edu>
Rendered body type: text/plain

Please don't tell me that the ARRL bandplan makes it look "OK." The ARRL has taken very little responsibility for frequency coordination, stepping aside, rather than stepping up, when the FCC wanted them to be the body to recognize frequency coordination bodies across the country a couple of years ago. The bandplan they recommended was nothing more than a recommendation, and came out well after Southern California and Texas had published their plans, with different "recommendations." It completely ignored common practice in 2-way communications in looking at coordination, and drew precious little from published standards (Ca. and Tx) at the time.

I agree that we need some coordination of a channel but I seriously doubt that 2 meters is the place for it. I may well be that we have to negotiate some of the weak-signal or experimental space on UHF or 220 MHz. Matter of fact, if there had been more 220 MHz activity, we might still have it. 2 meter spectrum is scarce and getting more rare!

> In just a few months you will begin to see crackerjack size trackers and
> all will be XTAL controlled. Remember we are talking about MOBILES, and
> mobiles do travel. AND the further they travel the MORE IMPORTANT THE
> TRACKING (usually). Do we want everyone to disappear from GPS tracking
> systems when they cross the CANADIAN border? Going either way, it's the
> same...
>
> Yes, many people are using synthesized radios now, but as the GPS tracker
> becomes an imbedded device used as an everyday appliance, the use of a \$350
> radio where a \$99 one will do, will fade away.
>
> I am very pleased to see the effort and results of being able to declare a
> national CANADIAN GPS tracking frequency, but I would ask that the long
> term effects of such a commitment be seriously considered...

I HAVE considered the effect of a "nationwide" or "continent-wide" frequency, and realistically, it's not likely to happen. A group of frequencies, linked by HF or dedicated UHF links between areas, however, is practical. So the radio is crystal controlled. Sorry guy. That's not necessarily consistent with reality in today's spectrum.

73, Gerry
N5JXS

47. Re: [APRSSIG:586] Re: VHF Frequency in Canada

From: mwalker@gold.interlog.com (Mike Walker)
Date: Mon, 03 Apr 95 21:39:29 EDT
To: aprssig@tapr.org
Message-ID: <199504040216.WAA19781@gold.interlog.com>
Rendered body type: text/plain

On Mon, 3 Apr 1995 09:09:27 -0500 you wrote:

>
>On Sun, 2 Apr 1995, Mike Walker wrote:
>>
>> About 2 months ago those in charge of Bandplanning have authorized the
>> 145.39 MHz frequency for continuous APRS coverage throughout Canada
>
>APR COMMENT: In trying to find a universal tracking frequency, it is
>recognized that there will be conflicts with 145.79 in
>some areas. But the advantages of a SINGLE continent-wide GPS tracking
>network will be significant. We are only just beginning to see the
>tremendous potential of this capability.
>
>My recommendation is that 145.79 be used WHEREVER POSSIBLE, and that
>exceptions be made on a case-by-case basis. Why put all of CANADA on a
>different frequency, when only 2 cities have the problem?
>
>In just a few months you will begin to see crackerjack size trackers and
>all will be XTAL controlled. Remember we are talking about MOBILES, and
>mobiles do travel. AND the further they travel the MORE IMPORTANT THE
>TRACKING (usually). Do we want everyone to disappear from GPS tracking
>systems when they cross the CANADIAN border? Going either way, it's the
>same...
>
>Yes, many people are using synthesized radios now, but as the GPS tracker
>becomes an imbedded device used as an everyday appliance, the use of a \$350
>radio where a \$99 one will do, will fade away.
>
>I am very pleased to see the effort and results of being able to declare a
>national CANADIAN GPS tracking frequency, but I would ask that the long
>term effects of such a commitment be seriously considered...
>
Bob,
I couldn't agree more on a single frequency. I will pass on your
request to VE3DSS, Dana and ask that he consider the above. I'm not
sure why we picked that frequency, but I will see if the above can be
used as it is marked as digital usage.

I'll keep you informed...

cheers...

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

48. Re: [APRSSIG:595] Re: APRS frequency in SOCA

From: jkeck@smartdocs.com (Jim Keck)
Date: Mon, 03 Apr 1995 21:53:04 -0700
To: aprssig@tapr.org
Message-ID: <9504040453.AB26499@smartdocs.com>
Rendered body type: text/plain

>On Mon, 3 Apr 1995, Marvin Munster wrote:
>
>> Can anyone out there give me the frequencies or bandplan for California, or
>> more directly, Southern CA.
>
>APR REPLY: Thats a big problem. Since there is NO standard freq in LA,
>then the users cant find each other, and no one knows the others exist.
>There are a number registered, but all claim that they cant find anyone
>else... Good luck. If 145.79 is already in use out there, and you
>cannot negotiate a shared arrangement, then good luck. Once you get a
>freq, post it here, so we all know the answer...

There are a few of us that are working on obtaining some additional frequencies for packetters in SOCA. At this time the SCDCC, Southern California Digital Communications Council, has undertaken an indepth review of digital frequencies. At their last meeting on 25 March a proposal was submitted and has been forwarded to the Coordinating Bodies for their review and hopefully approval. One of the frequencies involved is 145.790. All interested individuals should make their desires known and if possible attend the next SCDCC Board Meeting on April 29 at 1130 AM, immediately following the TRW Swapmeet.

Please contact me direct for any additional information

jkeck@smartdocs.com

SCDCC Director for SCARC
Santa Clarita Amateur Radio Club

49. FTP Sites

From: "Jon Maguire redsox@vnet.ibm.com" <redsox@VNET.IBM.COM>
Date: Tue, 4 Apr 95 07:42:51 EDT
To: aprssig@tapr.org
Message-ID: <199504041144.GAA05297@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

Sorry for the newbie question, but: what FTP site(s) have the latest DOS APRS? I've found APRS62A, but I know there are later versions. Thanks.

Jon Maguire N1CQE/4 | ibm-vm: maguire@carvm8 usib2tfc@ibmmail
Advantis Internet | Packet: N1CQE@WA1GUD.FL.USA.NOAM
Customer Support | IBM Global Network: redsox@ibm.net
Dept NB4 / Bldg PAV | voice: t/l:438-3038 external:(813)-878-3038
3405 W. M.L.King Blvd. | fax : t/l:438-3922 external:(813)-878-3922
Tampa, FL 33607 | AMSAT #21847 TAPR #2916 TPALAN BARS
| Internet: redsox@vnet.ibm.com
| IP 44.98.24.61 N1CQE.ampr.org

50. LOW POWER National Tracking Frequency

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 4 Apr 1995 09:50:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950404092134.2774C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

To clarify the air on my proposal for a NATIONWIDE tracking frequency...

Please do not think of this as a power play. I am NOT encouraging the dismemberment of anyone's frequency plans, nor the displacement of any existing users on the two meter band. hi hi

I'm only suggesting a single frequency as a target, so that areas where it is available, can choose to use the same frequency as other areas. IF it's available, grab it. If not, find a different freq and let us know.

My only comment about the Canadians was asking why put the whole country on a different freq just because of conflicts in two cities.. But then, I am not a Canadian traveler, and maybe the Canadians all travel East and West more often than they travel South. hi hi Of course, I am probably taking the Yankee perspective of Canada as a thin sliver of USA wannabees all crowded along our northern fence... (JOKE!) But if travel across the line is not so important, then a NATIONAL CANADIAN frequency is also a GOOD IDEA...

In fact, TWO national GPS frequencies is better than 10 or 20 or 30. So maybe those US cities with conflicts could investigate the 144.39 freq too.. ALTHOUGH I personally do NOT like to see packet spread into the low end of 2 meters... And areas considering same, should definitely check with their FRQ COORD bodies (and SAREX ETC) before jumping into the flame.

The way we ended up on 145.79 was that it was designated as an experimental frequency. GPS tracking seemed to fit that description just perfectly. Then, as it evolved in to a permanent system, we realized that the onus was on us to be good neighbors to the SATELLITE band starting at 145.80, and that was why the frequency was designated experimental in the first place.

You will see throughout my documentation and especially in the digipeater section, the encouragement to use LOW power transmitters at digipeaters. I see NO reason why any WIDE area digipeater should use anything more than 10 watts. The function of a WIDE digipeater is to HEAR mobiles.

Almost everyone that is LISTENING to a WIDE is a home station and has a good enough antenna to HEAR the WIDE.

SO I ENCOURAGE ALL GPS BASE (HOME or DIGIS) to KEEP THEIR POWER IN THE 10 watt class where possible. This will keep us as good neighbors to the ever GROWING satellite band. Consider the nice little MFJ 5 watt single frequency 2m packet radio for around \$100!

P.S. Remember the "target" frequency of 445.925 on UHF too.. See UHFfreq.txt (although I still have no reports of anyone there yet..)

51. Re: [APRSSIG:607] LOW POWER National Tracking Frequency

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Tue, 4 Apr 1995 11:56:07 -0500 (CDT)
To: aprssig@tpr.org
Message-ID: <199504041656.LAA14391@sparc22.cs.tamu.edu>
Rendered body type: text/plain

Robert Bruninga sez:

>
>
> To clarify the air on my proposal for a NATIONWIDE tracking frequency...
>
> Please do not think of this as a power play. I am NOT encouraging the
> dismemberment of anyone's frequency plans, nor the displacement of any
> existing users on the two meter band. hi hi
>
> I'm only suggesting a single frequency as a target, so that areas where
> it is available, can choose to use the same frequency as other areas. IF
> it's available, grab it. If not, find a different freq and let us know.

Sounds good to me, and please forgive me if I sounded a little too strident yesterday. Aside from getting hit pretty hard when I talked to the Texas VHF-FM Society, I got a little sensitive with some other packet issues for SAREX a while back.

> In fact, TWO national GPS frequencies is better than 10 or 20 or 30. So
> maybe those US cities with conflicts could investigate the 144.39 freq
> too.. ALTHOUGH I personally do NOT like to see packet spread into the low
> end of 2 meters... And areas considering same, should definitely check
> with their FRQ COORD bodies (and SAREX ETC) before jumping into the flame.

Exactly. We need some place where linking stations can also coordinate the plans, so that there is a mechanism for getting the data around. One possible method is encapsulated ax.25 via the internet, similar to that being used widely now in the NOS code. Gotta think on that one... But let me reiterate the need to work within the confines of local coordinating bodies, and not just claim a frequency without some coordination: There just might be things going on there you aren't familiar with.

> You will see throughout my documentation and especially in the digipeater
> section, the encouragement to use LOW power transmitters at digipeaters.

> I see NO reason why any WIDE area digipeater should use anything more
> than 10 watts. The function of a WIDE digipeater is to HEAR mobiles.

And, further, if you use a good receiver, with a good front end, you'll hear more of the on-channel signals and less of the intermod. That'll help too.

> P.S. Remember the "target" frequency of 445.925 on UHF too.. See UHFfreq.txt
> (although I still have no reports of anyone there yet..)

I personally feel UHF is a better place to go. Unfortunately, 445.925 is the OUTPUT of a repeater (designated "backyard" or low-power/low altitude repeaters) in Texas... So, we're still looking. All in all, 145.79 has been used pretty widely down this way. But I got jumped pretty hard for even asking about "another" packet channel, since the packeteers have not been particularly good spectrum neighbors down here!

73, gerry N5JXS

52. Re: BETA68 and HSP problems

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 4 Apr 1995 13:01:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950404124549.5236B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 4 Apr 1995, Jack Anderson wrote:

> HSP performance seems better now, but the most prevalent problem, the "Got
> good NMEA" message, with no P-list or map update, is still happening a lot.
> Last night I watched it toggle at ten second intervals for over three minutes
> before it updated, displaying "Got good NMEA fix" every time.
>
> I see a lot more GGA fixes with the new beta. Now 60% GGA/GLL, vice 40%

> Now, I frequently see it "Toggle for NMEA data" and stay locked in that state
> for almost three or four seconds. The keyboard doesn't respond, etc.

APR COMMENT: Are you sure it is LOCKED? It should only be LOCKED into that HSP mode for 2.2 secs max (even tho the "toggle etc "message remains until the next 5 second cycle overwrites the new TIME

> Another observation - O-C-G sometimes takes a second or so before it fully
> kicks into HSP mode. When this happens, I sometimes see a couple of screen
> flashes with -I/O Glitch-

APR COMMENT: This is normal in OCT mode. During normal HSP switching, however, there is a high probability of switching in the middle of a bit (which triggers the I/O glitch). So APRS 1st CLEARS the comm buffer to make sure it starts fresh, and then waits for NMEA data.

> I'm still seeing GGA and GLL mixed in my
> POS: line. I also notice that I don't get course and speed related plots
> unless I use NMEA 1.5 instead of 2.0.

APR REPLY: Whoaah! You didnt tell me that you had any choice between 1.5 and 2. You said all you had was the I/O selection! You gave me the list of NMEA strings (I assume in 2.0 mode) tell me whats in 1.5 mode? (Im sure it has GLL and VTG and NO RMC)

53. APRS - Delorme Rockwell GPS

From: "Kenneth C. Bass, III" <KBass@venable.com>
Date: Tue, 4 Apr 95 14:51:08 EST
To: aprssig@tapr.org
Message-ID: <9504041451.AA14404@VENABLE.COM>
Rendered body type: text/plain

Bob -

I acquired the shareware copy of APRS at the Vienna Winterfest. I recently acquired Delorme's GPS Trak n' Go which uses the Rockwell NAV OEM GPS chip to interface with their CD-ROM maps. The Rockwell chip, as you may know, uses a binary data stream, not the NEMA ASCII.

Paul Evans at PacComm suggested you or Keith Spruill might have the data format used by Rockwell. Paul believed Keith had used the Rockwell format for the Mac implementation. Do you have any info on using APRS (or PPRS) with the Rockwell chip? Do you have an email address for Keith? Any help on getting me up to using the Delorme product with APRS without having to buy another GPS unit would be most appreciated.

Thanks in advance,

Ken Bass
K4EVH

=====
Ken Bass
Venable, Baetjer, Howard & Civiletti, LL.P.
1201 New York Ave., N.W.
Suite 1000
Washington, D.C. 20005-3917
(202) 962-4890
=====

54. Re: [APRSSIG:609] Re: BETA68 and HSP problems

From: janderson@ram.net (Jack Anderson)
Date: Tue, 04 Apr 95 15:18:40 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a56@ram.net>
Rendered body type: text/plain

>APR COMMENT: Are you sure it is LOCKED? It should only be LOCKED into
>that HSP mode for 2.2 secs max (even tho the "toggle etc "message remains
>until the next 5 second cycle overwrites the new TIME

It seems locked. There is no response to keyboard commands, but they do seem to be buffered, and are processed when the TOGGLE is finished. Most of the TOGGLES last (what seems to be) less than one second, and are followed by Got good NMEA fix. The long one is also followed by Got good NMEA fix. I usually don't see the new TIME display until after the Got good NMEA is displayed.

>APR REPLY: Whoaah! You didnt tell me that you had any choice between
>1.5 and 2. You said all you had was the I/O selection! You gave me the
>list of NMEA strings (I assume in 2.0 mode) tell me whats in 1.5 mode?
>(Im sure it has GLL and VTG and NO RMC)

BWC, GLL, RMB, RMC, XTE, VTG, WPL - standard
RMM, RMZ, LIB - proprietary

Do you think I should be using NMEA 1.5?

55. Re: [APRSSIG:610] APRS - Delorme Rockwell GPS

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Tue, 4 Apr 95 15:23:28 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.797023408.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

RE: Rockwell GPS format..

Yes, I fully understand the Rockwell binary format.. No, you don't want to mess with it, especially now since Rockwell also makes NMEA stuff.

The Rockwell is wierd binary, non-standard, and has to be converted. It is fully implemented in the Mac version, but I don't think that does you any good.

We can continue any other discussions direct and not on the SIG..

My E-Mail address is below..

Keith

Keith Sproul	WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
	908 821-4828 Home

56. Need a little help

From: William E Woomer <muwew2@uxa.ecn.bgu.edu>
Date: Tue, 4 Apr 1995 14:28:01 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9504041446.A24770-0100000@ecom3.ecn.bgu.edu>

Rendered body type: text/plain

Hi all,
I have a little problem involving an aea pk-12 tnc and the aprs program.
I got a shareware version (64b) at a hamfest and it seems to work fine.
A friend got me version 67b off of a bbs and I sent off for a registered
version. Long story - short: I can't seem to get the share version of
67b or my new, registered version of 67b to work. There are about 3 of
us in my area using it on 145.79 and when I fire up either 67b, I'm all
alone. I can see their info coming across the bottom of the screen but
they don't pop up on the screen. And, when I send them a one line message,
they get it but my screen doesn't respond with the *ack. They see me, I don't
see them. Then, if I get out of 67b, load 64b and run it, everything works
fine. I've changed the monitor parameter to 4, mto and mfrom to all and
it doesn't help me on 67b. Anyone got any ideas that I might try?

Bob - Do you want me to go by the old homestead one of these days and
take some pictures for you (outside of Macomb)?

**** Bill Woomer *****
* Internet: muwew2@uxa.ecn.bgu.edu
* Amateur Radio: N2TH0 @ AG9Y.#WCIL.IL.USA.NA
* Sometimes the shortest path is the longest route

57. APRS - Delorme Rockwell GPS

From: "Kenneth C. Bass, III" <KBass@venable.com>
Date: Tue, 4 Apr 95 15:54:07 EST
To: ksproul@hardees.Rutgers.EDU
Cc: aprssig@tapr.org
Message-ID: <9504041554.AA15624@VENABLE.COM>
Rendered body type: text/plain

Original-From: "Kenneth C. Bass, III" <KBass@venable.com>
Original-Date: Tue, 4 Apr 95 14:51:08 EST

Bob -

I acquired the shareware copy of APRS at the Vienna Winterfest. I
recently acquired Delorme's GPS Trak n' Go which uses the Rockwell NAV
OEM GPS chip to interface with their CD-ROM maps. The Rockwell chip, as
you may know, uses a binary data stream, not the NEMA ASCII.

Paul Evans at PacComm suggested you or Keith Sproul might have the data
format used by Rockwell. Paul believed Keith had used the Rockwell
format for the Mac implementation. Do you have any info on using APRS
(or PPRS) with the Rockwell chip? Any help on getting me up to using
the Delorme product with APRS
without having to buy another GPS unit would be most appreciated.

Thanks in advance,

Ken Bass
K4EVH

=====
Ken Bass
Venable, Baetjer, Howard & Civiletti, LL.P.
1201 New York Ave., N.W.
Suite 1000
Washington, D.C. 20005-3917
(202) 962-4890
=====

58. Re: [APRSSIG:610] APRS - Delorme Rockwell GPS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 4 Apr 1995 16:15:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950404161402.5236D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 4 Apr 1995, Kenneth C. Bass, III wrote:

> I recently acquired Delorme's GPS Trak n' Go which uses the Rockwell NAV
> OEM GPS chip to interface with their CD-ROM maps. The Rockwell chip, as
> you may know, uses a binary data stream, not the NEMA ASCII.

>
> Do you have any info on using APRS
> (or PPRS) with the Rockwell chip? Do you have an email address for
> Keith? Any help on getting me up to using the Delorme product with APRS
> without having to buy another GPS unit would be most appreciated.
>
APR REPLY: NO, NO, SORRY...
With a standard like NMEA, why would Delorme use somethign else??? Any
ideas?

59. TNC-2 RELEASE 1.19 + TINY-2 GPS

From: gustavoc@pinos.com
Date: Tue, 04 Apr 95 17:39:59 EST
To: aprssig@tapr.org
Message-ID: <9504041739.D4856qZ@pinos.com>
Rendered body type: text/plain

Hello !

I'm try to work the new tnc-2 1.19 release 1.19 with my tiny 2 with gps.

Is that possible ? I load all param like booklet tell but nothing
happend. What is possible wrong ? How cna I test my gps ?

Thanks for your help.

Gustavo, LW2DTZ

gustavoc@pinos.com

60. Re: [APRSSIG:611] Re: BETA68 and HSP problems

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 4 Apr 1995 17:36:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950404173404.11022B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I just posted another BETA68B.zip Notice that this BETA..B supersedes
BETA..E.zip. Again, until the SYSOP moves it from the UPLOAD directory
to the APRS directory, you will find it there. This is of course on the
410-280-2503 BBS.

This BETA test is trying to get HSP to work well with the GARMIN-45 or
other GPS that outputs more than one GGA, GLL, RMC, VTG sentence.

I dont think I improved anything in this BETA..B over the BETA..E, but I
added a lot more display in the upper right hand corner so that you can
see better each step of the HSP process. Lemme know whats going on!

61. Whats the best GPS for APRS?

From: "Ruston S. Baum" <rsb@crl.com>
Date: Tue, 4 Apr 1995 14:43:17 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950404144008.25406A-100000@crl6.crl.com>
Rendered body type: text/plain

Hi Everyone,
I am looking for input on the best buy of a GPS reciever for APRS.
I would probably only use it for GPS and not for saffari work.
Looking for cheap...easy to interface unit.

Tnxs very much...

Rusty WB0QJB
rsb@crl.com

62. Re: [APRSSIG:613] Need a little help with the PK-12

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 4 Apr 1995 17:32:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950404173028.11022A@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 4 Apr 1995, William E Woomer wrote:

> version. Long story - short: I can't seem to get the share version of
> 67b or my new, registered version of 67b to work. There are about 3 of

```
...
> they get it but my screen doesn't respond with the *ack. They see me,
> I don't
> see them. Then, if I get out of 67b, load 64b and run it, everything works
```

APR REPLY: Hummh... Are you sure you have EXPert mode on, or is it
NEWUSER, I forget which TNC has which command. Let us know the final
answer that fixes the problem... Oh, yes, be sure you have BBSMSG OFF
for the AEA...

63. Sony Pyxis and APRS

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Tue, 04 Apr 1995 18:14:35 -0600
To: aprssig@tapr.org
Message-ID: <9504041814.AA35408@oscar.cayman.adclab.bls.com>
Rendered body type: text/plain

I am considering the purchase of a Sony Pyxis for use with APRS. Anybody using this. Any comments for or against. Tucker is currently selling these for \$499 (formerly about \$1500). Are there other, better deals. I'm a newcomer to APRS but quite impressed (now that I can get the maps to show up on my Mac). So farr I have not found anybody else using the 145.79MHz frequency for APRS or anything else that I can hear.

TIA

Bruce

64. Texas frequencies

From: kcSejk@onramp.net (Robert Winingham)
Date: Tue, 4 Apr 1995 20:54:39 -0500
To: aprssig@tapr.org
Message-ID: <v01510101aba7a82df36f@[199.1.11.130]>
Rendered body type: text/plain

I have been a member of the Texas VHF-FM Society and AMSAT
for over two years and I have looked at the frequencies
supplied be each organization.

This is all I could find.

Texas frequencies

```
145.775 New AMSAT Los Angeles Wed 0400z CA FM Simplex
145.790 Link W.Texas Connection WTC/LNX San Antonio TX FM Simplex
145.790 #####
145.800 Satellite Sub-band start 145.800 to 146.00
Oscar-13 beacon is 145.812
-----
445.250 Link SW-texas Lynx System LNK Abilene TX FM Simplex
445.250 TV Cable Ch YY
445.925 #####
446.000 Texas R.A.C.E.S. Emg Nets TEXAS FM
```

I have not received any signals in Dallas, APRS or other wise on 145.79

Bob Winingham KC5EJK Dallas TX @EM12ot]

65. Re: [APRSSIG:613] Need a little help

From: Richard Amirault <amirault@max.tiac.net>
Date: Tue, 4 Apr 1995 22:01:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9504042146.A21746-0100000@max.tiac.net>
Rendered body type: text/plain

On Tue, 4 Apr 1995, William E Woomer wrote:

```
> Hi all,
> I have a little problem involving an aea pk-12 tnc and the aprs program.
> I got a shareware version (64b) at a hamfest and it seems to work fine.
> A friend got me version 67b off of a bbs and I sent off for a registered
> version. Long story - short: I can't seem to get the share version of
> 67b or my new, registered version of 67b to work. There are about 3 of
> us in my area using it on 145.79 and when I fire up either 67b, I'm all
> alone. I can see their info coming across the bottom of the screen but
> they don't pop up on the screen. And, when I send them a one line message,
> they get it but my screen doesn't respond with the *ack. They see me, I don't
> see them. Then, if I get out of 67b, load 64b and run it, everything works
```

> fine. I've changed the monitor parameter to 4, mto and mfrom to all and
> it doesn't help me on 67b. Anyone got any ideas that I might try?
>
Curious I had the same problem but with version 6.6!

I started with 6.2a, and it worked ok. I got 6.6 from Bob and WHAM no
other station icons on screen but me! Now I'm using 6.7a and it is
working fine (at least that part).

While I'm here....I do have a small problem. I'm using a locally produced
map (Boston, Mass) and all is fine so long as I stay within the map. If I
zoom OUT past the map, then zoom back into it, the labels are all
corrupted. The highways, city names and so on are undreadable.

Anyone else have a similar problem?

Richard N1JDU, Boston
amirault@tiac.net

66. Re: [APRSSIG:616] TNC-2 RELEASE 1.19 + TINY-2 GPS

From: Greg Jones <gjones@tenet.edu>
Date: Tue, 4 Apr 1995 21:34:25 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504050234.VAA07660@Leslie-Francis.tenet.edu>
Rendered body type: text/plain

Several others have had this problem...the chip is coming configured
7E1...so make sure you talk to it the first time in that mode then you can
set it to 8N1 one if you like.

The first few that wernt out didn't have the hint sheet attached.

Hope that helps.

greg

According to gustavoc@pinos.com:

>
>
> Hello !
>
> I'm try to work the new tnc-2 1.19 release 1.19 with my tiny 2 with gps.
>
> Is that possible ? I load all param like booklet tell but nothing
> happend. What is possible wrong ? How cna I test my gps ?
>
> Thanks for your help.
>
> Gustavo, LW2DTZ
>
>
> gustavoc@pinos.com
>

67. Re: [APRSSIG:591] Re: APRS frequency in SOCA

From: JeffS5@aol.com
Date: Wed, 5 Apr 1995 02:27:45 -0400
To: aprssig@tapr.org
Message-ID: <950405022743_72352628@aol.com>
Rendered body type: text/plain

There is minor activity on 145.07 in the Santa Clarita Valley and on into
Ventura area. I can see clear into Orange County from my QTH (34x 26' 23.8"
/118x 29' 08.4" W) and hear nothing else. As soon as W6JW implements store &
forward without FBB, I'll be there full time (jab-jab. . . U there Jim?).
Till then the TNC's on .03.

When a real channel is decided upon, I think there will be considerable
interest when the blips start showing up.

Jeff - WA6EQU

68. Re: [APRSSIG:613] Need a little help

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)
Date: Wed, 5 Apr 95 9:12:37 MET DST
To: aprssig@tapr.org
Message-ID: <9504050712.AA20235@sunrise.e-technik.uni-ulm.de>
Rendered body type: text/plain

N2THO wrote:>

```
> Hi all,
> I have a little problem involving an aea pk-12 tnc and the aprs program.
> I got a shareware version (64b) at a hamfest and it seems to work fine.
> A friend got me version 67b off of a bbs and I sent off for a registered
> version. Long story - short: I can't seem to get the share version of
> 67b or my new, registered version of 67b to work. There are about 3 of
> us in my area using it on 145.79 and when I fire up either 67b, I'm all
> alone. I can see their info coming across the bottom of the screen but
> they don't pop up on the screen. And, when I send them a one line message,
> they get it but my screen doesn't respond with the *ack. They see me, I don't
> see them. Then, if I get out of 67b, load 64b and run it, everything works
> fine. I've changed the monitor parameter to 4, mto and mfrom to all and
> it doesn't help me on 67b. Anyone got any ideas that I might try?
>
```

I had a similar problem with my trusty old PK232 and tracked it down to the way the headerline is parsed. Everything worked fine if we all worked through a digi, but for stations using me as a digi, they did not show up on my map, nor did I get the *ack.

The problem was solved by turning the digi display in the headerline off: MRPT OFF for my AEA.

With MRPT ON (which APRS forced when started), the headerline looked like this, for DL3SDM digipeating through me:

DL3SDM*>RELAY>APRS etc.

Now, it looks like this:

DL3SDM*>APRS

and everything works fine.

Am I correct that in parsing the headerline, APRS looks for the *> and takes whatever comes behind it as the destination?

73 from Germany (an APRS desert),
Hermann
DF2DR

```
--
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de
Dept. of Electron Devices and Circuits |
University of Ulm, | office: +49 731 502-6152
D-89069 Ulm, Germany | FAX: +49 731 502-6155
```

Help fight leukemia - we're closing in on a killer!

69. KAM Plus HF Gate

From: BillWB6LPG@aol.com
Date: Wed, 5 Apr 1995 03:59:06 -0400
To: aprssig@tapr.org
Message-ID: <950405035903_72392079@aol.com>
Rendered body type: text/plain

From: billwb6lpg@aol.com (Bill Bliss/WB6LPG)
Sender: aprssig@tapr.org
To: brad@ecst.csuchico.edu (Bradley Lee Ambers)

ATTN: Brad, Kam Plus HF Gate ops.

Kam plus Reference Manual, Pages 22, 28, 31, 32. and my APRS @ ALLUSW
MSG 041400UTC APR 95. via Packet BBS System.

Set foll CMD's:

MYG... to GATE.. (MYG GATE) to close gate type MYG %)

STReam to \$7E/\$7C (~a / |A)

PORT to VHF

Status will read A/H Stream - I/O Disconnected

Also if ur in CMD: mode hit ~A for HF port to send. (SWIZZEL A or hit
|A for VHF port to send.) But in APRS just hit C-H for HF xmit, C -V for
VHF to xmit, but you'll get RED warning Box if Gate in ur Unproto path.

For HF set unproto to read: "GATE,WIDE/APRS VIA (local VHF digi)

For VHF set unproto just to your VHF normal Digi path.

If you are in VHF xmit mode and you have (GATE) in your Unproto path you will
get the Big RED Warning box.. Tells you why..

73's & Enjoy, BillWB6LPG @ aol.com

70. Re: [APRSSIG:610] APRS - Delorme Rockwell GPS

From: gwyn@paccomm.com (Gwyn Reedy, WIBEL)
Date: Tue, 04 Apr 95 16:59:49 UTC
To: aprssig@tapr.org
Message-ID: <2291@paccomm.com>
Rendered body type: text/plain

e-mail address for keith is:
ksproul@noc.rutgers.edu

We have the Rockwell manuals here at PacComm, but haven't tried to comprehend the output data stream.

Gwyn Reedy, WIBEL gwyn@paccomm.com WIBEL@amsat.org

+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

71. Frequency Coordination

From: mwalker@interlog.com (Mike Walker)
Date: Tue, 04 Apr 95 22:18:25 EDT
To: aprssig@tapr.org
Message-ID: <199504051212.IAA29975@gold.interlog.com>
Rendered body type: text/plain

I was afraid of the traffic I was going to start when I mentioned the frequency coordination.

We have gone through quite a tirad in Canada about a new bandplan for 2m, 220 and 440. What we have found is the following:

The 2M spectrum is finite and at some point in time, there will be no more 2m spectrum that you can call your own. This is why APRS was assigned 144.390, and to the best of our knowledge there is no conflict with any satellittes, nor will there be in the future (who knows how long the future is...hi hi)

If APRS is looking for a national or worldwide 20khz frequency that they can call their own, it might be easier to use 440 (or even 220/440 gateways). I have a 2 watt Tekk radio that I use for 9600 baud packet (even at 2 watts) with great success. There is a few 9600 baud user ports even here in Toronto, so APRS could find a channel here that they could sort of call home. It might be best to do it now and avoid the rush (look ahead over the next 20 years and consider what has happened in the last 20 years).

If manufacturers want to build a small unit, then maybe this is the way to go. Just an idea. (I'll be glad to share all of the Canadian 200K of packet files that I have on the very heated discussions of spectrum).

73...mike

Mike Walker mwalker@interlog.com
127 High St. W. rf: va3mw@va3bbs
Mississauga, ON
L5H 1K4

72. Re: [APRSSIG:620] Sony Pyxis and APRS

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 05 Apr 95 08:14:32 EDT
To: aprssig@tapr.org
Message-ID: <199504051218.IAA00431@gold.interlog.com>
Rendered body type: text/plain

On Tue, 4 Apr 1995 18:24:34 -0500 you wrote:

>
>---part_ABA73D0900454B7300000002
>Content-Type: Text/Plain; charset=US-ASCII
>Content-Disposition: Inline
>
>I am considering the purchase of a Sony Pyxis for use with APRS. Anybody using
>this. Any comments for or against. Tucker is currently selling these for \$499
>(formerly about \$1500). Are there other, better deals. I'm a newcommer to APRS
>but quite impressed (now that I can get the maps to show up on my Mac). So
>farr I have not found anybody else using the 145.79MHz frequency for APRS or

>anything else that I can hear.
>
>TIA
>
>Bruce

Bruce,
I own one, and unless you can figure out how to get the NMEA data from it, I wouldn't recommend it. It is not a bad package, but not usefull for APRS and a TNC as I haven't found a way to get the NMEA data from it.

Cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

73. Re: [APRSSIG:622] Re: Need a little help

From: kinahan@ws007-fddi.bytex.network.com (Tom Kinahan @ws007)
Date: Wed, 5 Apr 95 09:13:47 EDT
To: aprssig@tapr.org
Message-ID: <9504051313.AA14690@ws007-fddi>
Rendered body type: text/plain

I've also seen corrupted labels on zooming up and then back in both with the standard maps as well as locally produced maps (I suspect the same ones you've got). I noticed this in versions prior to 6.7. I haven't seen in 6.7 though. My solution was to shut the labels off.

N1JDU sez:

>While I'm here....I do have a small problem. I'm using a locally produced
>map (Boston, Mass) and all is fine so long as I stay within the map. If I
>zoom OUT past the map, then zoom back into it, the labels are all
>corrupted. The highways, city names and so on are undreadable.

Tom Kinahan N1CPE, Framingham, Ma.
kinahan@bytex.network.com

74. Re: [APRSSIG:628] Frequency Coordination

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 5 Apr 1995 08:17:20 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504051317.IAA17834@solar.cs.tamu.edu>
Rendered body type: text/plain

Mike Walker sez:

>
> I was afraid of the traffic I was going to start when I mentioned the
> frequency coordination.

Ah, well. Don't be. I've had to fight on one side or the other of packet coordination and allocation for well over 10 years down this way.

> We have gone through quite a tirad in Canada about a new bandplan for
> 2m, 220 and 440. What we have found is the following:
> ...
>

> If APRS is looking for a national or worldwide 20khz frequency that
> they can call their own, it might be easier to use 440 (or even
> 220/440 gateways). I have a 2 watt Tekk radio that I use for 9600
> baud packet (even at 2 watts) with great success. There is a few 9600
> baud user ports even here in Toronto, so APRS could find a channel
> here that they could sort of call home. It might be best to do it now
> and avoid the rush (look ahead over the next 20 years and consider
> what has happened in the last 20 years).

I've got 20 of 'em, and they work well. Even on cows. In a harsh environment. They're pretty rugged little radios, and inexpensive.

I suspect UHF is a good way to go. that's the path I'm pursuing here in Texas, because I already know what the chances of a statewide 2 meter channel really

are. But this needs to be done in the manner you did it: In conjunction with a recognized frequency coordination body, and not by a suggestion in print that "I think this is a nice chanel!"

> If manufacturers want to build a small unit, then maybe this is the way to go. Just an idea. (I'll be glad to share all of the Canadian > 200K of packet files that I have on the very heated discussions of > spectrum).

No need. I've got the Texas stuff here :-)

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

75. Sony GPS Rx

From: paul@paccomm.com
Date: Wed, 05 Apr 95 09:23:20 UTC
To: aprssig@tapr.org
Message-ID: <2327@paccomm.com>
Rendered body type: text/plain

Hi. Yes, the Sony is a pain. No-body has yet figured out what the stupid connector is on the thing.
Joel Kandel has come the nearest to finding out by phoning Japan and talking with 'em. The response sounded like they'd never attempted to get data out of it!
There's an ugly rumour that somebody is going to make a cable for it in Japan, but I'll bet it'll be VERY pricey!
If someone has a description of what that connector is PacComm would be happy to build cables at a reasonable price!
Joel sent me a fax showing the connector, but it still wasn't too helpful in helping us track down this thing!!!!!!
Can anybody help???????

Regards, Paul

Paul Evans, W4/G4BKI paul@paccomm.com
+1 (813) 874-2980 Fax:+1 (813) 872-8696 BBS: +1 (813) 874-3078 (V.34)
The views expressed in this message are not necessarily those of PacComm.
Vice President of Florida CW Contest Group
Runners-up in NAQP CW at our FIRST attempt
PacComm Packet Radio Systems, Inc., 4413 N. Hesperides St., Tampa, FL 33614-7618

76. Re: [APRSSIG:632] Sony GPS Rx

From: miles@mail.utexas.edu (Miles Abernathy)
Date: Wed, 5 Apr 1995 09:00:10 -0500
To: aprssig@tapr.org
Message-ID: <v01510102aba80c1fd730@[128.83.159.101]>
Rendered body type: text/plain

>If someone has a description of what that connector is PacComm would
>be happy to build cables at a reasonable price!

Hi Paul!

Do you think PacComm can provide connectors for the Magellan 40 / 45? The factory cable + connector goes for \$30 list, \$28 discount house. It has 4 pins, 2 power and 2 signal.

Miles Abernathy, N5KOB	"I urge you to dream - I did, and one
U. of TX, P O Box 7580	day I found myself standing on the
Austin, Texas 78713 USA	surface of the moon." - Gene Cernan

77. Re: [APRSSIG:620] Sony Pyxis and APRS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 5 Apr 1995 10:13:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950405101010.14888C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 4 Apr 1995, Bruce W. Martin wrote:

>

> I am considering the purchase of a Sony Pyxis for use with APRS. Anybody using

> this. Any comments for or against. Tucker is currently selling these for \$499
> (formerly about \$1500). Are there other, better deals. I'm a newcomer to APRS

APR REPLY: Wooaha!

- 1) When I checked 2 years ago, the Pixis was the ONLY GPS WITHOUT a serial output. That made it useless at the time....
- 2) Do not pay \$495 for ANY GPS unless it flies
- 3) Any of the national boat stores list price around \$299 for some very nice handheld GPS units.

This SONY of which you speak, may be different than teh one I looked at 2 years ago, IF SO, SOMEONE PSE FILL US IN....

78. Re: [APRSSIG:631] Re: Frequency Coordination

From: Kent Larson <klaron@access.digex.net>
Date: Wed, 5 Apr 1995 10:23:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950405102045.16213A-100000@access3.digex.net>
Rendered body type: text/plain

On Wed, 5 Apr 1995, Gerald J Creager wrote:

> Mike Walker sez:
> >
> > If APRS is looking for a national or worldwide 20khz frequency that
> > they can call their own, it might be easier to use 440 (or even
> > 220/440 gateways). I have a 2 watt Tekk radio that I use for 9600
> > baud packet (even at 2 watts) with great success. There is a few 9600
> > baud user ports even here in Toronto, so APRS could find a channel
>
> I've got 20 of 'em, and they work well. Even on cows. In a harsh
> environment. They're pretty rugged little radios, and inexpensive.

Could you fill me in on Tekk radios? Have never heard of them. Are they 440 only or can they do 2m? Crystal? How much? Where?

Thanks, Kent

79. Re: [APRSSIG:622] Re: Need a little help

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 5 Apr 1995 10:23:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950405101747.14888E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 4 Apr 1995, Richard Amirault wrote:

> While I'm here....I do have a small problem. I'm using a locally produced
> map (Boston, Mass) and all is fine so long as I stay within the map. If I
> zoom OUT past the map, then zoom back into it, the labels are all
> corrupted. The highways, city names and so on are unreadable.

APR REPLY: You are not the first. I have even seen it occassionally.
We need more info to find the bug (if any)

1. Use a txt editor to see how many labels are in the map file... (must be less than 99)
2. Use MAPFIX to see how many points are in the file (must be less than 2999)
3. Try everything on a different PC. May be MEMORY corruption due to not enough memory. (or free up some more memory on this machine) and see if problem persists...

80. Re: [APRSSIG:625] Re: AEA TNC's

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 5 Apr 1995 11:08:39 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950405103803.14888G-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

In response to someone that was having problems with an AEA PK-12, On Wed, 5 Apr 1995, Hermann Schumacher wrote:

> I had a similar problem with my trusty old PK232 and tracked it down to the
> way the headerline is parsed. Everything worked fine if we all worked
> through a digi, but for stations using me as a digi, they did not show up on
> my map, nor did I get the *ack.

```

>
> The problem was solved by turning the digi display in the headerline off:
> MRPT OFF for my AEA.
>
> With MRPT ON (which APRS forced when started), the headerline looked like
> this, for DL3SDM digipeating through me:
>
> DL3SDM*>RELAY>APRS etc.
>
> Now, it looks like this:
>
> DL3SDM*>APRS
>
> and everything works fine.
>

```

APR REPLY: Argh!!!@#\$% Those AEA's! I think we found the problem:

- 1) the AEA monitor display is DIFFERENT than all other TNC's.
- 2) APRS DOES know how to parse it, however, if you indicate that you are using an AEA TNC during APRS set-up
- 3) The fix just described above IS NOT THE CORRECT fix. The fix above removes the digi field, so that the result looks ALMOST like a standard packet header (This tells me that Hermans APRS is NOT in AEA mode) But then it does NOT let APRS parse the digipeater field and build up its D-PAGE.
- 4) BUT it is MORE than that! You can make MOST AEAs look like REAL TNCs by giving it the command BBSMSG ON. APRS thought that this was the final answer, and implemented it in version 6.0 more or less. BUT THEN THERE WERE LOTS OF OLD AEA ROMS OUT THERE that did NOT recognize the BBSMSG ON command. So in version 6.5 more or less, I removed the BBSMSG ON command, and infact, now force it OFF. So now I am back to parsing AEA formats for AEA TNC's.
- 5) I suspect that Herman (above) has an OLD AEA but a version of APRS that is trying to make his AEA look like a TAPR TNC with the BBSMSG ON command. Since his TNC does NOT recognise the command, and continues to output AEA format, he has to make the above mod to get it to work. If so, he needs either a NEWER AEA ROM (anything in the last few years will work) or a newer version (or OLDER version) of APRS.

NOW BACK TO THE PROBLEM AT HAND. AEA TNC's ALSO DO ANOTHER STUPID THING... They default to MDIGI off! That means that they DO NOT MONITOR any packets going through themselves as a digi! In a virgin APRS net, where EVERYONE uses EVERYONE as a digi (RELAY) this means the AEA TNC's do NOT see ANYONE ELSE'S packets that they hear direct!!!!

I BET this is the problem with the guy with the PK-12 (or any other AEA TNC that can't see anyone else unless they go through ANOTHER digipeater... Try turning MDIGI ON.

81. FIXED bug in HSP,GPS,RMC!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
 Date: Wed, 5 Apr 1995 12:41:41 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950405123036.17182A-100000@greatlakes.nadn.navy.mil>
 Rendered body type: text/plain

Well, THanks to Karl Metcalf, who phoned that APRS was IGNORING RMC!

That has been the main problem that HSP was not working well for some users. My earlier BETA tests of fixes were concentrating on the timing and selection process for GLL/GGA/RMC, but I never realized that RMC was NOT working at all for OWN STATION! (my GPS doesn't have RMC)

So if APRS saw an RMC and used it, then, since it had a bug and was not then USING the RMC data (for station 0, yourself), that POSIT would not get plotted. RMC WAS working off-the air for other stations....

Anyway, BETA68x.zip is now posted, and I would appreciate someone testing it with a GPS that outputs RMC. Download from the UPLOAD (or APRS) directory of 410 280-2503...

OH yes, this bug will have been in there since 6.5!

WHen this fix is proved good, then I will upload the full 6.8 upgrade...

82. RE: [APRSSIG:629] Re: Sony Pyxis and APRS

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
Date: Wed, 5 Apr 1995 12:07:38 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <950405120738.1157@CRPL.CEDAR-RAPIDS.LIB.IA.US>
Rendered body type: text/plain

I believe that the Radio Shack PDA Comm Cable is the same type of connector that the Pyxis uses; so that should solve the cable problem. Then it's just a matter of scoping the wires for data.

Hope that helps!

83. MacAPRS install problems

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Wed, 05 Apr 1995 12:11:46 -0500
To: aprssig@tapr.org
Message-ID: <9504051710.AA01326@seism1.ess.sunysb.edu>
Rendered body type: text/plain

I downloaded Mac APRS 1.4.2 from ftp.tapr.org.
I had no problem with the program itself nor with the doc but I'm not able to decode the map and data files.
When I unbinhex the files MacAPRS.Map.sit.hqx and MacAPRS.Dat.sit.hqx I got MacAPRS.Map.sit and MacAPRS.Data.sit without (I think) errors; but when I unstuffit (stuffit lite 3.0.3) these files I got two files MacAPRS Map Folder.image and MacAPRS Data Folder.image instead of the folders with the files in it.

Did I missed something or is there something else to do?

To explain everything, here is how I do that:
I need to download the files with my PC, which is on internet, then split the files to put them on a disk (each of them is bigger than 1.4M!), transfer them to the mac (which I cannot connect to internet), join them and finally unbinhex them. I don't think the problem comes from these operations (?) as I can unbinhex the files ok.
By the way, why are these files binhexed? you can ftp 8 bits files, binhex is useful only to send 8 bits files by email. Not binhexed each .sit file fits on 1 disk.

Thanks by advance.

Bernard, KB2TGH

```
<<>><>> Bernard Seront
| | e-mail: seront@seism1.ess.sunysb.edu
| (o)(o)
\ |_) addr: Department of Earth and Space Sciences
| | State University of New-York at Stony Brook
|_| STONY BROOK, NY, 11794-2100, USA
/_/ phone: (516)632-8302 fax: (516)632-8240
/_/_/
```

84. RE: [APRSSIG:632] Sony GPS Rx

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
Date: Wed, 5 Apr 1995 12:14:09 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <950405121409.1157@CRPL.CEDAR-RAPIDS.LIB.IA.US>
Rendered body type: text/plain

>If someone has a description of what that connector is PacComm would
>be happy to build cables at a reasonable price!

I think that the RS232 comm cable Radio Shack sells for their PDA is the equivalent cable it's listed in their catalog. I haven't had the chance to compare RS's PDA and the Pyxis connectors side by side but I have seen both and believe the connectors are the same.

85. Re: [APRSSIG:628] Frequency Coordination

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Wed, 5 Apr 1995 10:33:07 -0700
To: aprssig@tapr.org
Message-ID: <199504051733.KAA17140@kilroy.jpl.nasa.gov>
Rendered body type: text/plain

At 7:27 AM 4-5-95 -0500, Mike Walker wrote:

>If APRS is looking for a national or worldwide 20kHz frequency that
>they can call their own, it might be easier to use 440 (or even

>220/440 gateways).

[snip]

>... It might be best to do it now
>and avoid the rush (look ahead over the next 20 years and consider
>what has happened in the last 20 years).

>If manufacturers want to build a small unit, then maybe this is the
>way to go. Just an idea.

Maybe mfgs should package up a unit for 1.2, or 2.4, or higher. APRS seems
like a good way to start occupying some prime real estate.

-Greg

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

86. Re: [APRSSIG:640] MacAPRS install problems

From: Dick Mead <mead@skat.usc.edu>
Date: Wed, 5 Apr 95 10:36:36 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.797103396.mead@hamal.usc.edu>
Rendered body type: text/plain

> I downloaded Mac APRS 1.4.2 from ftp.tapr.org.
> I had no problem with the program itself nor with the doc but I'm not able
> to decode the map and data files.
> When I unbinhex the files MacAPRS.Map.sit.hqx and MacAPRS.Dat.sit.hqx i got
> MacAPRS.Map.sit and MacAPRS.Data.sit without (I think) errors; but when I
> unstuffit (stuffit lite 3.0.3) these files i got two files MacAPRS Map
> Folder.image and MacAPRS Data Folder.image instead of the folders with the
> files in it.
>
> Did I missed something or is there something else to do?
>
> To explain everything, here is how i do that:
> I need to download the files with my PC, which is on internet, then split
> the files to put them on a disk (each of them is bigger than 1.4M!),
> transfer them to the mac (which I cannot connect to internet), join them and
> finally unbinhex them. I don't think the problem come from tese operations
> (?) as I can unbinhex the files ok.
> By the way, why are these files binhexed? you can ftp 8 bits files, binhex
> is useful only to send 8 bits files by email. Not binhexed each .sit file
> fits on 1 disk.

>
> Thanks by advance.

> Bernard, KB2TGH

> -----
> <<<>>>> Bernard Seront
> | e-mail: seront@seism1.ess.sunysb.edu
> | (o)(o)
> \ _) addr: Department of Earth and Space Sciences
> | ,_| State University of New-York at Stony Brook
> | _/ STONY BROOK, NY, 11794-2100, USA
> / \ phone: (516)632-8302 fax: (516)632-8240
>
>
>

They are disk images of the folders. Mount them or make a diskette with
one of the disk image apps like DiskCopy, ShrinkWrap, etc...

Dick

87. DISTRIBUTION STATUS

From: "Postmaster" <POSTMSTR@SSWP.HCC.COM>
Date: 05 Apr 1995 14:14:14 GMT
To: aprssig@tapr.org
Message-ID: <SSWP.POSTMSTR.964814140095095FSSWP@HCC.COM>
Rendered body type: text/plain

DISTRIBUTION ID: SMTP.APRSSIG.3840
SUBJECT : .APRSSIG:641. RE: Sony GPS Rx
DATE SENT : 04/05/95 TIME SENT: 14:13:00

```
SNADS STATUS   : 000C
EXPLANATION    : SNADS REQUEST PURGED
```

```

RECIPIENT      : AMGDAL.HUGHES1
LAST NAME      : HUGHES
FIRST NAME     : PATRICK
MIDDLE INITIAL :
INITIALS       : M
NATIVE NAME    : AMG/AMGDAL/HUGHES1
COUNTRY        : US
ADMD           : TELEMAIL
PRMD           : HOECHST
ORGANIZATION   :
ORG UNIT 1     :
ORG UNIT 2     :
ORG UNIT 3     :
ORG UNIT 4     :
DDA            :
TITLE          : APP RES MGR
DESCRIPTION     :
USERDATA       :

```

HUGHES1
PATRICK

```

3089      YA0870147161HUGHES
M 4 CG-HQS-DALLAS      UNITED STATES      L
TELEPHONE : 8883807

```

```

From: janderson@ram.net (Jack Anderson)
Date: Wed, 05 Apr 95 15:49:02 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a62@ram.net>
Rendered body type: text/plain

>From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
>Subject: [APRSSIG:638] FIXED bug in HSP,GPS,RMC!
>Date: Wed, 5 Apr 1995 11:48:05 -0500
>Reply-To: aprssig@tapr.org
>Sender: aprssig@tapr.org
>To: aprssig@tapr.org
>
>Well, THanks to Karl Metcalf, who phoned that APRS was IGNORING RMC!
>
>That has been the main problem that HSP was not working well for some
>users. My earlier BETA tests of fixes were concentrating on the timing
>and selection process for GLL/GGA/RMC, but I never realized that RMC was
>NOT working at all for OWN STATION! (my GPS doesnt have RMC)
>
>So if APRS saw an RMC and used it, then, since it had a bug and was not
>then USING the RMC data (for station 0, yourself), that POSIT would not get
>plotted. RMC WAS working off-the air for other stations....
>Anyway, BETA68x.zip is now posted, and I would appreciate someone
>testing it with a GPS that outputs RMC. Download from the UPLOAD (or APRS)

Looks good here. I'm seeing RMC/GLL/GGA with NMEA 2.0, and GLL/VTG with NMEA
1.5. Very high success rate. Just about every toggle returns some kind of
valid fix and update.

```

From: janderson@ram.net (Jack Anderson)
Date: Wed, 05 Apr 95 15:51:36 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a63@ram.net>
Rendered body type: text/plain

It looks like the CONTROLS-DEAD_RECKONING command changed from C-R to C-D in the new beta...

90. Chicago area activity????

From: hds@gagme.wwa.com
Date: Wed, 5 Apr 95 16:54 CDT
To: aprssig@tapr.org
Message-ID: <m0rwd1n-001VvzC@sashimi.wwa.com>
Rendered body type: text/plain

Hi all. I'm new to this list so I'm not sure if this has been answered before. I was wondering if anyone knows if there is any APRS activity in the Chicago area?

Thanks,
Aaron

This is my signature. There are many like it, but this one is mine.

91. Re: [APRSSIG:645] Re: FIXED bug in HSP,GPS,RMC!

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Wed, 05 Apr 1995 20:02:42 -0400
To: aprssig@tapr.org
Message-ID: <9504060104.AA23913@netaxis.com>
Rendered body type: text/plain

Wish I could say the same on this end. I d/l'd beta68x tonight and fired it up with the GPS on comm 1 and PK 232 on Comm 2. First thing I noticed was my symbol kept disappearing off the map when I would switch from the regular map to the Y command. I would than go back in and reassign my sysbol and all looked well till I started noticing several other stations on the channel were giving out my posits but I was no where to be found. I pressed the P command and what I saw was the first station at the top of the list was being updated with my NEMA fixes every 10 seconds and as another station moved to the top of the list that station would now be getting my NEMA fixes. This is with the GARMAN GPS 45. I also noticed that the Altitude is still not updating. Once in maybe 20 fixes I might get a Altitude reading. This problem of updating another stations posit seems to have happened in this X beta. I did notice the problem of the sysmbol disappearing when I went to 6.8. I also notice that even though the program says it got a good fix it is not updating the posit each time a new fix comes in. I went 0 C G and the data is coming in prefect. If you want I can send you a grap of about a minutes worth of the GARMAN GPS-45's NEMA so you can see what is being sent out. I can send you some of the NEAM ver 2.0 and the version 1.5. Sorry about the typooooos this is a temp keyboard till I can get my regular one repaired.

>Looks good here. I'm seeing RMC/GLL/GGA with NMEA 2.0, and GLL/VTG with NMEA
>1.5. Very high success rate. Just about every toggle returns some kind of
>valid fix and update.

>
>Jack
>
>

//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

92. Re: [APRSSIG:635] Re: Frequency Coordination

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 5 Apr 1995 20:17:49 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504060117.UAA08796@solar.cs.tamu.edu>
Rendered body type: text/plain

Kent Larson sez:

>
> Could you fill me in on Tekk radios? Have never heard of them. Are they
> 440 only or can they do 2m? Crystal? How much? Where?

The Tekk Radios (Tekk, KC Mo.) are 2 watt, UHF crystal controlled data radios that look like they were implemented pretty much from a Motorola databook. They are NOT designed for an intense RF environment, like a repeater site, without some work: The front end is NOT up to the drill. They are reliable, inexpensive (~\$110-120, small quantities). They come available with one frequency on ham bands, but for the life of me I cannot recall what it is. If memory serves they'll change freq's for about \$15.00, since THEY have to order crystals.

They can supply you with a teech manual, which is pretty good, all things considered.

Construction is pretty good, with a lot of SMT and some reasonable heatsinking.

I've had little trouble doing 9600 baud right out of the box, but some others recommend a filter change for improved performance. I'd say the radios are right on the hairy edge of 9600 performance.

I guess I need to dig up the phone number, and I'll try to do that over the next couple of days. It's in a pile of paper upstairs, and I have to troubleshoot some hardware first :-)

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

93. Re: [APRSSIG:649] Re: Frequency Coordination

From: klarson@access.digex.net (Kent Larson)
Date: Wed, 05 Apr 95 22:07:24 EDT
To: aprssig@tapr.org
Message-ID: <199504060207.AA03453@access3.digex.net>
Rendered body type: text/plain

On Wed, 5 Apr 1995 20:32:01 -0500 Gerry Creager wrote:

>Kent Larson sez:

>>

>> Could you fill me in on Tekk radios? Have never heard of them. Are they
>> 440 only or can they do 2m? Crystal? How much? Where?

>

>The Tekk Radios (Tekk, KC Mo.) are 2 watt, UHF crystal controlled data radios
>that look like they were implemented pretty much from a Motorola databook.
>They are NOT designed for an intense RF environment, like a repeater site,
>without some work: The front end is NOT up to the drill. They are reliable,
>inexpensive (~\$110-120, small quantities). They come available with one
>frequency on ham bands, but for the life of me I cannot recall what it is. If
>memory serves they'll change freq's for about \$15.00, since THEY have to order
>crystals.

That is very interesting. We, me and several others, would be interested in putting them in trackers but we want to stay on 145.79 for now. I have been looking for the MFJ data radio but they are advertizing but not delivering. I wonder if anyone has found a source for the MFJ 5 watt data radios?

>

>They can supply you with a teech manual, which is pretty good, all things
>considered.

>

>Construction is pretty good, with a lot of SMT and some reasonable
>heatsinking.

>

>I've had little trouble doing 9600 baud right out of the box, but some others
>recommend a filter change for improved performance. I'd say the radios are
>right on the hairy edge of 9600 performance.

>

>I guess I need to dig up the phone number, and I'll try to do that over the
>next couple of days. It's in a pile of paper upstairs, and I have to
>troubleshoot some hardware first :-)

That's okay Gerry, don't go to the trouble for me since I want to stay with 2m. Anyway, I spent 37 years in KC, Mo so I think I can have someone check it out for me. :)

Thanks a lot for the info!

Kent

Kent Larson - klarson@access.digex.net

94. Re:need help with pk-12

From: William E Woomer <muwew2@uxa.ecn.bgu.edu>
Date: Wed, 5 Apr 1995 23:29:30 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9504052341.A19186-0100000@ecom3.ecn.bgu.edu>
Rendered body type: text/plain

Solved!

This may be a little wierd but acting on the advice I got about making sure mdigi was on, and bbsmsgs off, I fired up 6.7b and checked in dumb terminal mode what the settings were. I found that mdigi was already on and bbsmsgs was already OFF. Just for grins, I turned bbsmsgs ON....and the program works like a champ! This particular pk-12 has version 7.0 firmware, sn# 959. Hope that helps and thanks for all who responded!

**** Bill Woomer *****
* Internet: muwew2@uxa.ecn.bgu.edu
* Amateur Radio: N2THO @ AG9Y.#WCIL.IL.USA.NA
* Lost in the middle of "forgottonia" (those who've been there, know)

95. Re: [APRSSIG:650] Re: Frequency Coordination

From: janderson@ram.net (Jack Anderson)
Date: Thu, 06 Apr 95 09:53:22 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a6b@ram.net>
Rendered body type: text/plain

>That is very interesting. We, me and several others, would be
>interested in putting them in trackers but we want to stay on 145.79
>for now. I have been looking for the MFJ data radio but they are
>advertizing but not delivering. I wonder if anyone has found a source
>for the MFJ 5 watt data radios?

I just noticed that Radio Shack is selling their 2m HT for \$189 - so, for \$90 more than the MFJ you can get a frequency agile 5W radio with a great rx front end. Tempting...

96. Garmin to PC, GPS newsgroup

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Thu, 06 Apr 1995 10:25:55 -0500
To: aprssig@tapr.org
Message-ID: <9504061424.AA02272@seism1.ess.sunysb.edu>
Rendered body type: text/plain

Hi,

sci.geo.satellite-nav is a newsgroup related to satellite navigation, mainly GPS.

I found these posts that can be of interest for garmin's owners:

>Newsgroups: sci.geo.satellite-nav,rec.boats
>From: mike@pizza.demon.co.uk (Mike Montgomery)
>
>Subject: Garmin to PC
>
>
>I have just uploaded a file called gardown.zip to ftp.ronin.com
>This program will download all the waypoints for a garmin GPS
>to a IMB PC. Its is a beta version if there is enough response
>I will take it further to allow both down & up loading of
>waypoints routes ect. If anyone can't download from ronin.com
>please email and I will email it back to you.
>
>Mike Montgomery email mike@pizza.demon.co.uk

>Hi I have just uploaded my new Gardown program to FTP:ronin.com &
>ftp:Sandae.triumf.ca\pub\peter. The program will now download
>Routes, Waypoints & Tracks to the pc from the garmin GPS. At the moment
>It will only do this on COM1 & in datum WGS84.
>
>--
>MIKE MONTGOMERY

Bernard, KB2TGH

97. Re: [APRSSIG:456] Re: HELLLPPP!!!! SKYWARN/WX

From: JKANDEL@umiami.ir.miami.edu
Date: Thu, 06 Apr 1995 10:46:32 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <01HP0KRW30MUA252EZ@umiami.ir.miami.edu>
Rendered body type: text/plain

Hi this is Joel, KI4T. I read Steve's reply to you and just wanted to clarify a couple of things reference the use of APRS at the National Hurricane Center. We will be using APRS to bring weather data INTO the center, rather than using APRS to send weather info out. There are plenty of outlets for that. But we found that weather data from boaters in the Caribbean have been very helpful to the forecasters. Of course we have to convince the boaters to automate their weather reporting through APRS, but that will come. If they know they will have access to other weather reports from the surrounding area, it will definitely be to their advantage to do so.

>From an Emergency Preparedness standpoint, it will be very useful to have APRS in a community. Here in S Florida, we know what happens when all the street signs and landmarks disappear. APRS will be extremely useful in getting teams around an affected area where maps have become scarce or useless.

We are trying to put digis on hospitals. The hospitals are paying for them against the time when they will have to be found by GPS. At the same time it gives the amateur community a great APRS network.

I hope this idea catches on elsewhere around the country.

73,
Joel Kandel, KI4T
jkandel@gate.com

98. Re: [APRSSIG:459] Where's everyone?

From: JKANDEL@umiami.ir.miami.edu
Date: Thu, 06 Apr 1995 10:49:13 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HP0L2BBZY4A252EZ@umiami.ir.miami.edu>
Rendered body type: text/plain

I think it's a big mistake to use other than 145.790 for APRS. It's a simple standard that ought to be accommodated all over the country so that disaster teams coming into an area don't have to second guess where everyone is.

Joel, KI4T

99. DISTRIBUTION STATUS

From: "Postmaster" <POSTMSTR@SSWP.HCC.COM>
Date: 06 Apr 1995 10:51:10 GMT
To: aprssig@tapr.org
Message-ID: <SSWP.POSTMSTR.882551100095096FSSWP@HCC.COM>
Rendered body type: text/plain

SMTP.APRS SIG DISTRIBUTION STATUS INFORMATION 04/06/95 10:50:53
=====

DISTRIBUTION ID: SMTP.APRS SIG.9930
SUBJECT : .APRSSIG:653. Garmin to PC, GPS newsgro
DATE SENT : 04/06/95 TIME SENT: 10:49:00
=====

YOUR MAIL WAS NOT DELIVERED FOR THE FOLLOWING REASON:

SNADS STATUS : 000C
EXPLANATION : SNADS REQUEST PURGED

=====

RECIPIENT	:	AMGDAL.HUGHES1	
LAST NAME	:	HUGHES	
FIRST NAME	:	PATRICK	
MIDDLE INITIAL	:		
INITIALS	:	M	
NATIVE NAME	:	AMG/AMGDAL/HUGHES1	
COUNTRY	:	US	
ADMD	:	TELEMAIL	
PRMD	:	HOECHST	
ORGANIZATION	:		
ORG UNIT 1	:		
ORG UNIT 2	:		
ORG UNIT 3	:		
ORG UNIT 4	:		
DDA	:		
TITLE	:	APP RES MGR	
DESCRIPTION	:		
USERDATA	:		
		3089	YA0870147161HUGHES
			HUGHES1
			PATRICK

100. Getting GPS to work

From: ke6jgn@garlic.com (Brent Bolen)
Date: Thu, 6 Apr 1995 08:33:45 -0700
To: aprssig@tapr.org
Message-ID: <9504061533.AA26646@garlic.com>
Rendered body type: text/plain

Help,

I have entered my validation numbers, and connected my GPS, but I don't see my position on the display. I enter O-C-G, and see the NMEA strings coming in, so the port and baud rate are right. I looked at the data coming from the GPS and it is: \$GPRMC,151156.75,A,3723.707,N,12202.272,W,00.0,0.0,060495,15.6,E*42 followed by a LF and a CR. To my untrained eye, everything looks OK, anyone have an idea what I am doing wrong?

Brent (ke6jgn@garlic.com)

101. APRS for the BayPac???

From: George.Henry@f668.n115.z1.fidonet.org (George Henry)
Date: 06 Apr 95 12:39:17 -0600
To: aprssig@tapr.org
Message-ID: <c61_9504061530@chigate.fidonet.org>
Rendered body type: text/plain

Attn Bob Bruniga, WB4APR

Do you have any plans to release a version of APRS which will work with the BayPac packet modem? There are hundreds, or even thousands of us BayPac owners who would love to get on APRS if the software supported us.....

It should be a relatively simple matter to add support of a vector hook to 0x60 for a driver such as AX25DR.COM, which many of us BayPac users use for KA9Q NOS.

At least 4 other hams in the Chicago area that I know of would be happy to beta test for you.....

Since I cannot, due to gateway restrictions, subscribe to this list, please reply directly by fido to node 1:115/668, or by internet to george.henry@f668.n115.z1.fidonet.org.

Thank you!

George Henry, KA3HSW
Sysop, KA3HSW Ham BBS
Wheaton, IL

102. Re: [APRSSIG:647] Chicago area activity????

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Thu, 06 Apr 1995 12:03:32 -0500
To: aprssig@tapr.org
Message-ID: <199504062203.RAA25209@home.interaccess.com>
Rendered body type: text/plain

>Hi all. I'm new to this list so I'm not sure if this has been answered
>before. I was wondering if anyone knows if there is any APRS activity in the
>Chicago area?

>

>

>

Thanks,
Aaron

>---

>This is my signature. There are many like it, but this one is mine.

>

>

Aaron,

You bet there is APRS activity in the Chicago metro area. On 145.79 we have several WIDE digi's (including one downtown at 650' AGL) an active HF gate and at least 3 dedicated full time WX stations. We are seeing as far west as Iowa (Quad City area) south to the Illinois river and into NW Ind.

There is an active APRS support group formed and we meet on the 4th Sat of

the month, 10 AM, location varies. We support both MAC and DOS versions and have several folks out running with GPS/mobile units. If your interested in more info E-mail me direct at edwardwr@interaccess.com.

Ed
N9LCI

```
*****
* all ignorance toboggans into know *
* e.e. cummings *
*****
```

103. 67to67b.zip ?

From: N5UHB <fjorozco@academ01.mty.itesm.mx>
Date: Thu, 6 Apr 1995 16:12:00 -0600 (CST)
To: APRS mailing list <aprssig@tapr.org>
Message-ID: <Pine.A32.3.91.950406161004.212800A-100000@academ01.mty.itesm.mx>
Rendered body type: text/plain

I came across this file when downloading my first copy of aprs67 (yep, I'm a newby to this business), is 67to67b.zip a new stand-alone version of aprs or is it an add-on upgrade?

Luis F. Orozco N5UHB XE2??? coming next week!!!

—

Life's Golden Rule: "Whoever's got the gold makes the rules."

104. Re: [APRSSIG:658] APRS for the BayPac???

From: N5UHB <fjorozco@academ01.mty.itesm.mx>
Date: Thu, 6 Apr 1995 16:20:33 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.A32.3.91.950406161928.239132A-100000@academ01.mty.itesm.mx>
Rendered body type: text/plain

On Thu, 6 Apr 1995, George Henry wrote:

> At least 4 other hams in the Chicago area that I know
> of would be happy to beta test for you.....

Hey, I'm in Monterrey, Mexico, and I also run baypak, I'd be more than glad to beta test for you too! :)

105. And another BETA68y !

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 6 Apr 1995 19:35:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950406193058.5309A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

The fixes in BETA68x apparently fixed the HSP problems but introduced a DUAL-PORT GPS problem. It caused other stations to USURP your stations position in the P-list! That report came in just in the nick of time!

So BETA68y is now posted on ARN BBS 410 280-2503

Do not bother getting it UNLESS YOU are running GPS!

If you are running GPS, please do, and feedback any probs ASAP. TNX...

It may still be in the upload directory if it has not yet gotten to the APRS directory...

106. Re: [APRSSIG:657] Getting GPS to work

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 6 Apr 1995 19:42:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950406194028.5309C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 6 Apr 1995, Brent Bolen wrote:

> Help,
> I have entered my validation numbers, and connected my GPS, but I don't see my
> position on the display. I enter O-C-G, and see the NMEA strings coming in,
> followed by a LF and a CR. To my untrained eye, everything looks OK, anyone

> have an idea what I am doing wrong?

Welcome to version 6.5 or later! I am working on a fix. Everything after 6.5 DOES NOT WORK with RMC. Just heard about this YESTERDAY!

Fix will be posted by 7 April. Beta test BETA68y.zip is on the 410-280-2503 BBS now...
SORRY!

107. Re: [APRSSIG:647] Chicago are...

From: DHBRYANT@aol.com
Date: Thu, 6 Apr 1995 20:10:36 -0400
To: aprssig@tapr.org
Message-ID: <950406201032_74429759@aol.com>
Rendered body type: text/plain

Aaron, flip your radio to 145.790 and watch your screen light up over any weekend.

108. Re: [APRSSIG:626] KAM Plus HF...

From: Calldrin@aol.com
Date: Thu, 6 Apr 1995 23:38:34 -0400
To: aprssig@tapr.org
Message-ID: <950406233831_74694331@aol.com>
Rendered body type: text/plain

Brad, don;t know how to get a msg. to you. So I'm trying to use the "reply" feature in AOL to see if this works.

So long for now.

73 and CUL Chuck KN6KS

calldrin@aol.com

109. Re: [APRSSIG:621] Texas frequencies.. Check again

From: rberger@metronet.com (Randall Berger)
Date: Thu, 06 Apr 1995 22:53:44 -0500
To: aprssig@tapr.org
Message-ID: <199504070349.AA01279@metronet.com>
Rendered body type: text/plain

>I have been a member of the Texas VHF-FM Society and AMSAT
>for over two years and I have looked at the frequencies
>supplied be each organization.
>
>This is all I could find.
>
>Texas frequencies
>
>145.775 New AMSAT Los Angeles Wed 0400z CA FM Simplex
>145.790 Link W.Texas Connection WTC/LNX San Antonio TX FM Simplex
>145.790 #####
>145.800 Satellite Sub-band start 145.800 to 146.00
> Oscar-13 beacon is 145.812
>-----

>445.250 Link SW-texas Lynx System LNK Abilene TX FM Simplex
>445.250 TV Cable Ch YY
>445.925 #####
>446.000 Texas R.A.C.E.S. Emg Nets TEXAS FM
>

>I have not received any signals in Dallas, APRS or other wise on 145.79
>

Check now.... I have my KAM on 145.79 and 10.151 in the DFW area. I also have my S-10 Blazer running 145.79 with KPC-3 and Trimble GPS.

>Bob Winingham KC5EJK Dallas TX @EM12ot]
>
>
>

Regards,

Randy Berger

=====

110. Re: [APRSSIG:655] Re: Where's everyone?

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Thu, 6 Apr 1995 23:16:07 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504070416.XAA09441@solar.cs.tamu.edu>
Rendered body type: text/plain

JKANDEL@umiami.ir.miami.edu sez:

>

> I think it's a big mistake to use other than 145.790 for APRS. It's a simple
> standard that ought to be accomodated all over the country so that disaster
> teams coming into an area don;t have to second guess where everyone is.

I really hate to sound pendantic, but while it might be a good idea to have one coordinated nationwide frequency FOR THIS ONE LITTLE APPLICATION, it was not ever, ever pre-coordinated with any of the real frequency coordinating bodies. They have to deal with repeaters here, there and everywhere, packet operations that don't conform to the packet-allocated frequencies, demands for more repeater space from frustrated trustee-wannabes, complaints of interference from frustrated trustees, and interfacing with the next coordinating body or bodies that adjoin their service area who might just have to work within a different bandplan!

Before publicizing 145.79 for APRS, some legwork beyond the ARRL's poorly considered attempt at a bandplan should have been consulted.

<off-soapbox>

73, gerry N5JXS

111. OS-2 Warp

From: Calldrin@aol.com
Date: Fri, 7 Apr 1995 00:32:44 -0400
To: aprssig@tapr.org
Message-ID: <950407003243_74753221@aol.com>
Rendered body type: text/plain

I would like to know if any one has experience with OS-2 Warp.
Does APRS run in the background? If so what version?
Have any problems developed?
I've been running APRS 62b with fair success in Windows 2.11

Any coments, anyone?

Chuck KN6JS

calldrin@aol.com

112. Re: [APRSSIG:668] OS-2 Warp

From: Calldrin@aol.com
Date: Fri, 7 Apr 1995 01:05:31 -0400
To: aprssig@tapr.org
Message-ID: <950407010530_74783303@aol.com>
Rendered body type: text/plain

Correction.. The version of windows I'm using is 3.11 not 2.11

Thanks ot Brad at brad@ecst.csuchico.edu for keeping me humble. (hey I knew what I ment!)

Chuck
calldrin@aol.com

113. Re: [APRSSIG:658] APRS for the BayPac???

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)
Date: Fri, 7 Apr 95 7:58:05 MET DST
To: aprssig@tapr.org
Message-ID: <9504070558.AA29735@sunrise.e-technik.uni-ulm.de>
Rendered body type: text/plain

george.henry@f668.n115.z1.fidonet.org wrote:

>

> Attn Bob Bruniga, WB4APR

>

> Do you have any plans to release a version of APRS which will work with the
> BayPac packet modem? There are hundreds, or even thousands of us BayPac
> owners who would love to get on APRS if the software supported us.....
>

Bob,

I'd like to second that request. Here in Europe, BayPac or Baycom modems
have probably even more followers than in the US. Particularly for my
students, it is simply the cheapest way to get on Packet.

I know this is no simple task, but maybe there is someone out there with
Baycom interfacing experience who could help out.

Thanks in advance,

73 from Ulm,

Hermann

--
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de
Dept. of Electron Devices and Circuits |
University of Ulm, | office: +49 731 502-6152
D-89069 Ulm, Germany | FAX: +49 731 502-6155

Help fight leukemia - we're closing in on a killer!

114. Re: [APRSSIG:668] OS-2 Warp

From: mwalker@interlog.com (Mike Walker)
Date: Fri, 07 Apr 95 08:07:26 EDT
To: aprssig@tapr.org
Message-ID: <199504071208.IAA06364@gold.interlog.com>
Rendered body type: text/plain

On Fri, 7 Apr 1995 00:38:48 -0500 you wrote:

>I would like to know if any one has experience with OS-2 Warp.
>Does APRS run in the background? If so what version?
>Have any problems developed?
>I've been running APRS 62b with fair success in Windows 2.11
>
>Any coments, anyone?
>
>Chuck KN6JS
>
>callldrin@aol.com
>

Chuck,
I have been running it with warp for sometime now. I only use VGA
(since I have a com port conflict between com4 and the ATI SVGA card).
I usually run it in a dos full screen mode and leave it displayed
when I'm not doing anything else. Make sure you are not sharing
interrupts with the com ports (ie, if you are using 4 com ports, that
they all have unique irq's).
Cheers...mike

Mike Walker mwalker@interlog.com
127 High St. W. rf: va3mw@va3bbs
Mississauga, ON
L5H 1K4

115. Re: [APRSSIG:668] OS-2 Warp

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Fri, 7 Apr 1995 07:27:13 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504071227.HAA18284@solar.cs.tamu.edu>
Rendered body type: text/plain

Callldrin@aol.com sez:

>
> I would like to know if any one has experience with OS-2 Warp.
> Does APRS run in the background? If so what version?
> Have any problems developed?
> I've been running APRS 62b with fair success in Windows 2.11

I've run it succesfully on OS/2 V3 (Warp) for Windoze, and on the full
implementationpackage. The full implementation package works better than Warp
for Windoze, because, I suspect, Windoze has its own set of overhead and
problems.

I have not refined it to run in a seamless window in OS/2 just yet, but invoking a full-screen DOS session and doing it works fine. For the record, I've spent a lot of time trying to optimize parameters, and suspect I've over-configured it a little.

73, gerry N5JXS

116. Re: [APRSSIG:671] Re: OS-2 Warp

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 7 Apr 1995 07:34:11 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504071234.HAA18370@solar.cs.tamu.edu>
Rendered body type: text/plain

Mike Walker sez:

>
> I have been running it with warp for sometime now. I only use VGA
> (since I have a com port conflict between com4 and the ATI SVGA card).
> I usually run it in a dos full screen mode and leave it displayed
> when I'm not doing anything else. Make sure you are not sharing
> interrupts with the com ports (ie, if you are using 4 com ports, that
> they all have unique irq's).

I use the STB-4-port card, which gives you a pretty good selection of addresses and IRQs for each port. I've 4 ports available and no port or IRQ conflicts with anything.

Since OS/2 does not share IRqs gracefully, this is outstanding advice.

73, gerry N5JXS

117. Re: [APRSSIG:668] OS-2 Warp

From: janderson@ram.net (Jack Anderson)
Date: Fri, 07 Apr 95 09:42:05 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a74@ram.net>
Rendered body type: text/plain

>I would like to know if any one has experience with OS-2 Warp.
>Does APRS run in the background? If so what version?
>Have any problems developed?
>I've been running APRS 62b with fair success in Windows 2.11
>
>Any coments, anyone?
>
>Chuck KN6JS
>
>callldrin@aol.com

I've tried it and it worked fine in a DOS box, full screen. APRS is not "multitasker friendly" or "OS/2 aware" though. Expect to see the PULSE meter at the top all the time. It hogs a lot of ticks.

118. Re: OS-2 Warp and WINDOWS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 7 Apr 1995 10:26:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950407102310.8633C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 7 Apr 1995 Callldrin@aol.com wrote:

> I would like to know if any one has experience with OS-2 Warp.
> Does APRS run in the background? If so what version?

APR COMMENT: I hope everyone has figured out by now, that I am old and stubborn and this OS-too and WINSLOWS stuff is beyond me... hi hi

If someone that has it all figured out would write a WINDOWS.txt file or an OS-2.txt file, I would be happy to distribute it...

119. Re: [APRSSIG:670] Re: APRS for the BayPac???

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 7 Apr 1995 10:34:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950407103124.8633D-100000@greatlakes.nadn.navy.mil>

Rendered body type: text/plain

On Fri, 7 Apr 1995, someone wrote:

> > Do you have any plans to release a version of APRS which will work with the
> > BayPac packet modem? There are hundreds, or even thousands of us BayPac

APR REPLY: Im old and stubborn. I would be happy to interface to BAYCOM, if someone smarter than I can tell me how. APRS is written in QUICK BASIC, and I know how to INPUT from a COM port, and PRINT to a COM port. If someone can lay it on a silver platter for me, exactly how to interface to the BAYCOM drivers, ill give it a try...

120. Genius NewSketch 1212

From: W2HOB@aol.com
Date: Fri, 7 Apr 1995 10:55:09 -0400
To: aprssig@tapr.org
Message-ID: <950407105507_75063505@aol.com>
Rendered body type: text/plain

Help... My good friend K2ADJ's son, Rob, loaned me a Genius (manuf) NewSketch 1212 graphics tablet. I have/had (!) high hopes of digitizing the entire ARRL section of SNJ (not really) and was quite excited when I was able to borrow the tablet.

I ran the test programs to confirm the tablet was working ok. It will work from COM1: or 2 and will emulate a 1.Summagraphics MM Series, 2. Bit Pad One/CalComp 2000, 3. GTCO Digi-Pad (Type 5), 4. GTCO Digi-Pad (Type 7), 5. Hitachi Tiger.

I compiled the MAPFIXER program and it boots up ok and I'm using it correctly... I think... I read the docs and as far as I can tell, I'm following the procedure but the MAPFIXER doesn't seem to talk to the tablet and/or vice-versa. The MAPFIXER does crash out with an error message but I forgot exactly what it was... I will do it all again if anyone wants that error code. Hitting any key, of course, brings me back out to DOS.

Thye docs do mention modifications of the .BAS source code depending on some tablet make and models. Might that be necessary here? Is one of those types above gonna work at all? Help! Whatever anyone recommends, I'll do. I've got tons of the USGS 1:24000 7-minutes maps that I'm just itching to make into APRS maps for South Jersey. Thanks to ya'll for reading & helping.

73 de Boyd (w2hob@aol.com)

121. Re: [APRSSIG:667] Re: Where's everyone?

From: Jess Girard <girard@panix.com>
Date: Fri, 7 Apr 1995 11:27:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950407111342.107508-100000@panix.com>
Rendered body type: text/plain

Frequency coordination on 2 meters is so confused and testosterone-laden that's it essentially impossible to get anyone to agree what to do. The best advice I've ever heard was ignore all the complaints and do what you want, i.e., put your APRS stations on 5.79. Sounds vicious, but it's effective.

We had a nice 2-meter tcp/ip network going on 144.91 in SW Connecticut for a few years, when along came some DX Packet Cluster guys who decided to set up a Cluster there because we were 'under-utilizing' the frequency. We yelled and screamed for months; they refused to move, do finally we moved... to 5.65 where we got yelled at by folks who used that frequency for long-range fm simplex QSO's. We would not move again. _They_ finally gave up and moved... I don't know where; maybe they got some SSB rigs which they should've done years ago.

Two-meter simplex is a dog-eat-dog place. We should have some nice packet repeaters, but no coordinating group around here will assign a freq. pair for a non-voice application.

Jess ND1L

122. Windows 3.11 & APRS

From: Calldrin@aol.com
Date: Fri, 7 Apr 1995 11:24:09 -0400
To: aprssig@tapr.org
Message-ID: <950407112407_75089518@aol.com>
Rendered body type: text/plain

Bob Bruninga,

Just a little update on running APRS in background.
I'm using 62b and have the Windows video driver set to VGA.
It seem to work (in the background) with a limited number of programs.
It works with MS Works, Dynodex, and AOL software.
It doesn't like XTGOLD, or many other DOS based programs.
Seems to like "Windows" based programs better.

Hope this will help you some.

Chuck Alldrin Chico, CA

calldrin@aol.com

PS: still waiting for that slim, trim, lite, version of APRS!

123. APRS6.8 and stuff

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 7 Apr 1995 13:39:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950407132347.10549C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Concerning GPS frequencies, I hope that everyone has tried the APRFREQ.BK file which displays a USA map with all the known (reported) APRS frequencies. (It used to be called USAFREQS.bk) I welcome any additions to this map. So far, I havent gotten any new reports in months... I only want freqs where there are PERMANENT WIDE's OR at least COORDINATED activity. This map makes an excellent pre-travel guide....

If you have an input to this map, send it by EMAIL. Just send me in text format the LAT/LONG and FREQ. These labels are meant to show at the USA level, so if you have multiple WIDES, we only want ONE report.

Just posted 6.8. THings you will notice (maybe)
* fixed HSP probs due to APRS not storing RMC from its own GPS
* New OPS-DIGI commands
* alt-SETUP-GPS-GGA command for selecting GGA only (gets altitude)
* KAMS no longer get "GATE BITCH" when on VHF side
* MESSAGES now have their own screen! (swapped R and T commands)
* Fixed 43 line 3D altitude display
* RESTORE.TNC is now in APRS\SYSTEM directory. Move yours there.
Gud Luk

124. Re: [APRSSIG:675] Re: OS-2 Warp and WINDOWS

From: "Craig L. Lindsey" <cll4@Ra.MsState.Edu>
Date: Fri, 7 Apr 1995 11:52:19 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950407114628.12067B-100000@Isis.MsState.Edu>
Rendered body type: text/plain

On Fri, 7 Apr 1995, Robert Bruninga wrote:

> If someone that has it all figured out would write a WINDOWS.txt file or
> an OS-2.txt file, I would be happy to distribute it...

I have it working FB under Windows 3.11, and will try to put together a text file and forward it here.

Craig

Craig Lindsey - KC5AUG | My politics are simple: Always go right. If
Internet: cll4@ra.msstate.edu| you go left, you can never go right, and if
Office Phone : (601)325-8553 | you go right, you never go wrong. -Grizzard
WWW page: <http://www2.msstate.edu/~cll4/>
Finger cll4@ra.msstate.edu for PGP public key.

125. Re: [APRSSIG:673] Re: OS-2 Warp

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 7 Apr 1995 13:53:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950407134010.10549D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I show COW = 02921 with GPS = 911. If that doesnt work, tell me about it
Try COWS = 79414 maybe that will validate?

The ../raw message is supposed to show up after 3 raw posits with an unvalidated user. This was to prevent use of an unvalidated APRS program being used commercially to track dozens of fleet vehicles\ trackers.

If its not working that way, lemme know. No one has reported seeing the message before...

126. 20m, anyone?

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)
Date: Fri, 7 Apr 95 20:57:06 MET DST
To: aprssig@tapr.org
Message-ID: <9504071857.AA02268@sunrise.e-technik.uni-ulm.de>
Rendered body type: text/plain

Hi APRS fans,
I have been observing the APRS 20m frequency for a while without results.
Anyone out there willing to try it?
Hermann
DF2DR

--
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de
Dept. of Electron Devices and Circuits |
University of Ulm, | office: +49 731 502-6152
D-89069 Ulm, Germany | FAX: +49 731 502-6155

Help fight leukemia - we're closing in on a killer!

127. RE: [APRSSIG:678] Re: Where's everyone?

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
Date: Fri, 7 Apr 1995 14:03:43 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <950407140343.6c96@CRPL.CEDAR-RAPIDS.LIB.IA.US>
Rendered body type: text/plain

>Frequency coordination on 2 meters is so confused and testosterone-laden
that'
mpossible to get anyone to agree what to do. The
best advice I've ever heard was ignore all the complaints and do what you
want, i.e., put your APRS stations on 5.79.

Sound's nasty alright but seems to be the way of the world! I'd say stick to 579since that seem's to be the majority of APRS usage and let's be realistic
APRS is a much better usage than a bunch of wennies saying nothing on a repeater. I'm sure I get some flames on this but so be it. APRS decays the station location over time, has direct Public Saftey benifits and is useful for tracking ballon launches, DFing, Weather reporting, parades, and other events. If allocation was based on Public Service cabapilities it would be no argument.

Feel free to jump in but keep the Flames to a low simmer I can be a sensitive type and can't afford a shrink to mend my feelings :>

128. HP96LX Palmtop

From: MikeKE6EGK@aol.com
Date: Fri, 7 Apr 1995 17:32:45 -0400
To: aprssig@tapr.org
Message-ID: <950407173244_75518446@aol.com>
Rendered body type: text/plain

The following is a packet message from a local Ham that has a very good idea as to miniaturizing his mobile GPS/Packet equipment. Anyone out there have any ideas?

73 de Mike KE6EGK
AOL MikeKE6EGK
Internet MikeKE6EGK@aol.com

>From : AC6JA
To : APRS@ALLUS
Type/status : BH

Date/time : 30-Mar 21:50
 BID (MID) : 14139_KA6EYH
 Message # : 79675
 Title : APRS ON PALMTOP?

HI THERE.

NAME HERE IS MIKE AND I LIVE IN FOSTER CITY, CALIFORNIA. I WOULD BE INTERESTED IN HEARING FROM ANYONE WHO HAS SUCCESSFULLY USED THE APRS PROGRAM ON A PALMTOP COMPUTER. PRESENTLY I HAVE A HEWLETT PACKARD HP95LX AND A KANTRONICS KPC-3 VERSION 6.0 AND A RADIO SHACK HTX-202. I HAVE BEEN ABLE TO USE THIS SETUP FOR REGULAR PACKET OPERATIONS, BUT I WOULD BE INTERESTED IF THE APRS PROGRAM WOULD BE CAPABLE OF RUNNING ON THE PALMTOP, MAINLY DUE TO THE SMALL SIZE OF THE SCREEN (40 X 16) AS OPPOSED TO STANDARD 80 X 25. ANY HELP WOULD BE GREATLY APPRECIATED.
 THANKS!

--- End of message #79675 to APRS from AC6JA ---

129. Help!!

From: dmedley@dconcepts.com
 Date: Fri, 07 Apr 95 15:55:41 EST
 To: APRSSIG@TAPR.ORG
 Message-ID: <9504071555.D2457NE@dconcepts.com>
 Rendered body type: text/plain

Can somebody please tell me how to unsubscribe to this sig?

130. RE: [APRSSIG:677] Genius NewSketch 1212

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
 Date: Fri, 7 Apr 1995 13:52:55 -0500 (CDT)
 To: aprssig@tapr.org
 Message-ID: <950407135255.6c96@CRPL.CEDAR-RAPIDS.LIB.IA.US>
 Rendered body type: text/plain

>I compiled the MAPFIXER program

Where can I get a Qbasic compiler? I haven't seen any ad's or software at the typical software outlet's; Heck I don't even know what the name of one is so if someone could tell me I'd be happy indeed. Also about how much.

<someday I'll create a tagline (sure)

131. Re: [APRSSIG:677] Genius NewSketch 1212

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
 Date: Fri, 7 Apr 1995 13:18:13 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950407131309.10549A-100000@greatlakes.nadn.navy.mil>
 Rendered body type: text/plain

On Fri, 7 Apr 1995 W2H0B@aol.com wrote:

> Help... My good friend K2ADJ's son, Rob, loaned me a Genius (manuf) NewSketch
 > 1212 graphics tablet. I have/had (!) high hopes of digitizing the entire ARRL
 > section of SNJ ...
 >

> I compiled the MAPFIXER program and it boots up ok and I'm using it

APR COMMENT. Get it working first in QBasic...

And before that, get it working with PROCOMM!!! Configure the table to output data to PROCOMM in the following format whenever you CLICK the mouse or when you press the button or whatever:

xxxxx,yyyyy,z

The x and y values are decimal such as 1234,5789 and the z can be just about anything or even be missing (I think) If the z matches whatever I have in MAPFIX, then you can use both the button 0 and button 3, but if it doesn't match, at least you will get the point. Make that at 9600,n,8,1 and it should work!

132. Re: [APRSSIG:687] RE: Genius ...

From: W2H0B@aol.com
 Date: Fri, 7 Apr 1995 20:56:03 -0400
 To: aprssig@tapr.org
 Message-ID: <950407205601_75723822@aol.com>
 Rendered body type: text/plain

I use MicroSoft's QuickBasic Compiler 4.0 where 4.5 is the latest I think. It doesn't come with DOS... it's a separate standalone BASIC compiler but not their superduper professional program.

I think the push is on toward Visual Basic which is a "compiler" for WINDOWS stuff. This is all I know!

73 de Boyd AR

133. Re: [APRSSIG:684] Re: Where's everyone?

From: keating@nosc.mil (Roger Keating)
Date: Fri, 7 Apr 1995 18:01:02 -0700
To: aprssig@tapr.org
Message-ID: <abab9055090210041d99@[128.49.184.29]>
Rendered body type: text/plain

In SoCA, I am told the APRS frequency is 144.990 as assigned by TASMA.

I haven't got my APRS station on the air yet, but the local gurus encourage us all to use this frequency for APRS packet activity.

Roger Keating - KD6EFQ DM12jr
keating@nosc.mil

134. Re: [APRSSIG:690] Re: Where's everyone?

From: Dick Mead <mead@skat.usc.edu>
Date: Fri, 7 Apr 95 18:19:33 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.797303973.mead@hamal.usc.edu>
Rendered body type: text/plain

> In SoCA, I am told the APRS frequency is 144.990 as assigned by TASMA.
>
> I haven't got my APRS station on the air yet, but the local gurus encourage
> us all to use this frequency for APRS packet activity.
>
> Roger Keating - KD6EFQ DM12jr
> keating@nosc.mil
>
>
>

144.990 in SoCal was assigned as the experimental modes freq, however, tcp/ip at 9600 bps is what you'll find there. I have never heard any APRS stations there. Most of us are probably on 1200 baud in 146.745 -600.

Of course, that doesn't mean you couldn't set up there...

Dick WB6NGC

135. Re: [APRSSIG:690] Re: Where's everyone?

From: Bob Lorenzini <wd6dod@wd6dod.ampr.org>
Date: Fri, 7 Apr 1995 19:16:58 -48000
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9504071900.A104-0100000@wd6dod.ampr.org>
Rendered body type: text/plain

On Fri, 7 Apr 1995, Roger Keating wrote:

> In SoCA, I am told the APRS frequency is 144.990 as assigned by TASMA.
>
> I haven't got my APRS station on the air yet, but the local gurus encourage
> us all to use this frequency for APRS packet activity.
>
> Roger Keating - KD6EFQ DM12jr
> keating@nosc.mil
>

144.990 is a 9600 baud ONLY freq in SoCal. You will not find any 1200 baud APRS here. Most of the APRS activity is on 146.745 duplex packet repeater.

Bob - wd6dod
bobl@citpac.gps.caltech.edu

136. Re: [APRSSIG:680] APRS6.8 and...

From: K2ADJ@aol.com
Date: Fri, 7 Apr 1995 23:17:23 -0400

To: aprssig@tapr.org
Message-ID: <950407231721_75865288@aol.com>
Rendered body type: text/plain

APR WANTS: APRS FREQ's

Bob, please remove from you APRSFREQ.BK the digi site of W2HOB on 147.345...

Eastern PA, all of NJ, SE NY State and the southern Teir of CT (as far as I know) is all on 5.79 with multiple WIDE's in each state...

Maybe a large BOX would be fitting, hi. expand the box as the network expands here in the NE...

The digi on 147.345 is still there but 99 44/100ths% of the APRS activity is on 145.79 all the way to Cape May.

73 de Rod

137. Re: [APRSSIG:684] Re: Where's...

From: K2ADJ@aol.com
Date: Fri, 7 Apr 1995 23:17:25 -0400
To: aprssig@tapr.org
Message-ID: <950407231724_75865329@aol.com>
Rendered body type: text/plain

Gotta ad my 2 cents worth to the "taking of a frequency for APRS".....

Here in the Delaware Valley we came up on 145.79 early in the game only to learn 2 nights later that there was some ATV on the frequency, a net held every night for one hour by a group of about 6 members.. So, we decided to give the hour to them, well, it didn't last very long until they decided to MOVE to another "quiet" frequency...

It is not the real way to do it but if you ask your coordinator for 145.79 I guarantee you he will say it is in use so you are still out in the cold with the rest of the gang.. Here in the North East there are no quiet frequencies so if you want to operate on 145.79, just go ahead and work with the BBS's, NODES, TCP/IP, ATV and DX Clusters and finally they will get sick of all those extra APRS Packets and they will move - eventually!

73 all and by golly, have fun.....de Rod

.

138. Version 6.8 availability

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Fri, 7 Apr 1995 23:39:51 -0400 (EDT)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9504072351.A22142-a100000@acme>
Rendered body type: text/plain

For those who can not find this version via Internet, I did down load to my LLBBS from ARN BBS this evening. There are 3 versions availble: APRS68.ZIP - The full version - 65to68.zip - The upgrade and 67to68.zip for those who are always on the cutting edge.

These files are available on the first logon - once you get past the logon...:-)... At the main menu type "T" (Transfer Section) then Type "2" to get to the APRS PROGRAM section, then "L" (list) followed by a return to see the file list.

If you long on for the first time, please write down your user number, the phone number you entered, and your password. You'll need all 3 to log on again.

The Ohio Mapmaker - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JXO@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

139. NWX Bulletins to APRS parsing

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Fri, 7 Apr 1995 23:46:37 -0400 (EDT)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9504072337.A22142-a100000@acme>
Rendered body type: text/plain

The COSWN (Central Ohio Severe Weather Net) group has asked if it is possible to output the NWS Weather Wire and/or NEXRAD radar images to APRS. I remeber the thread about the WX Wire but nothing about radar. (But of course I didn't keep anything on the WX wire, seeing I have my nose buried

in maps all the time.)

If I remeber right, this was some experimental stuff at a few WX stations. Would someone(s) please refresh my memory.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

140. GPS WORLD CONTEST

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Fri, 7 Apr 1995 23:52:30 -0400 (EDT)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9504072330.A22142-b100000@acme>
Rendered body type: text/plain

The April issue of GPS World announce that applications are now being accepted for the 1995 GPS Application competition. The following is part of their announcement (please note - the typos will be mine, not theirs)

"Send us your most interesting application of GPS. Did it solve a problem? Did it save time? Save Money? Help save the environment? Or just allow you to do something in a unique way? We want to hear about it and publish it in the magazine."

"To enter the competition, send us a brief typewritten description of your work (no more than 300 words) along with slides or color photographs that will better explain what yuo've done and document the project. An independent panel of judges will evaluate the submissions based on three criteria: uniqueness, technology, and praticial results. The best entries will be published in the August 1995 Showcase issue of GPS World."

"To enter the contest, send your entries before June 1, 1995 to:
Molly Trudeau, c/o GPS World, 859 Willamette St. Eugene OR 97401-6806
.... . You may also e-mail your text to mggpsworld@aol.com."

Gee folks - ya think APRS and it's multiple applications might qualify ?

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address KB8JX0@W8CQK.#CMH.OH.USA
The 137th most knowledgable person about A.P.R.S.

141. Re: [APRSSIG:682] Re: OS-2 Warp

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 8 Apr 1995 00:33:39 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504080533.AAA05494@solar.cs.tamu.edu>
Rendered body type: text/plain

Robert Bruninga sez:

>

> I show COW = 02921 with GPS = 911. If that doesnt work, tell me about it
> Try COWS = 79414 maybe that will validate?

indeed, and it works find for stuff up to v68 (altho' the one at the lab was 62A and I was running 67 at home. V68 would NOT let me ENTER a validation number, instead, telling me I couldn't do that.

> The ../raw message is supposed to show up after 3 raw posits with an
> unvalidated user. This was to prevent use of an unvalidated APRS program
> being used commercially to track dozens of fleet vehicles\ trackers.

Makes sense.

> If its not working that way, lemme know. No one has reported seeing the
> message before...

I suspect I'm doing a few things they're not doing.

73, gerry

142. Re: [APRSSIG:484] Re: Garmin 45

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Sat, 08 Apr 1995 01:54:54 -0400
To: aprssig@tapr.org
Message-ID: <9504080658.AA15496@netaxis.com>
Rendered body type: text/plain

Bob, Ya got the P problem resolved OK, however the position info is still not updating correctly using the GARMIN GPS-45. I went Alt-S-G-InfoGGA and I still see occasional RMC fixes in the P list and the Altitude only updates maybe once out of 10 updates. Most of the time on the P line for my Station the end of the line shows GLL/NUL/LAST NEMA FIX. One thing I was not clear on...is there a GGA command suppose to be in the GPS command line. I only found InfoGGA. I found no GGA command as stated in your message. One other problem... my Object i.e QTH-YAGI shows up when I set it from My-POS but if I change to the 3d map and back the Symbol disappears and all I have where my position is is a tiny dot with a tiny circle around it or just a dot. I have to go back into MY-POS and reset it again. This just started showing up in 6.8. I went C-O-G and looked at the data from the GPS and it looks fine. Is there a possibility that the other letters at the head of each line just before say the GGA is causing a line length problem when you parse the data in. I am not sure if you use fixed record lengths for the incoming data from the serial port. I can't remember for sure but I think there is a ?M before each string coming in from the Garman. I also found if I switch the GARMAN to NEMA ver.1.5 I always get RMC fixes. Hope this helps.....

73...Bill
//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

143. APRSFREQ.BK Clarification

From: W2HOB@aol.com
Date: Fri, 7 Apr 1995 16:20:20 -0400
To: aprssig@tapr.org
Message-ID: <950407162017_75376318@aol.com>
Rendered body type: text/plain

Just a quick note to clarify something about the WIDE digi network in SNJ...

I just took a peak at the APRSFREQ.BK map and if everyone adds to this it should provide mobilers a nifty reference while travelling.

In Southern New Jersey... there shows the frequency of 147.345. This is a node W2HOB-3 which has digi turned on and posit info in its btext, but it is not the APRSNET frequency for SNJ. We used it in the infancy period of APRS to experiment with. It is the section-wide node site for ARES and NTS operations and while we still "experiment" there from time-to-time, South Jersey has "standardized" its APRSNet on 145.79 with WIDEs, UL-IIs, GATEs, etc etc.

Bob, WB4APR, would you be so kind as to change your distro file to show SNJ on 145.79. We have also been monitoring 445.925 and haven't heard a peep from anything else... maybe this UHF will catch on!

Still havin' fun... 73 de Boyd AR

144. Re: [APRSSIG:683] 20m, anyone?

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 8 Apr 1995 08:31:42 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9504080811.A14576-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

What frequency and modulation mode is being used for APRS on 20m?

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Fri, 7 Apr 1995, Hermann Schumacher wrote:

> Hi APRS fans,
> I have been observing the APRS 20m frequency for a while without results.
> Anyone out there willing to try it?
> Hermann
> DF2DR
>
> --
> Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de
> Dept. of Electron Devices and Circuits |
> University of Ulm, | office: +49 731 502-6152
> D-89069 Ulm, Germany | FAX: +49 731 502-6155
> -----

> Help fight leukemia - we're closing in on a killer!
>
>

145. Re: [APRSSIG:691] Re: Where's everyone?

From: jkeck@smartdocs.com (Jim Keck)
Date: Sat, 08 Apr 1995 05:42:20 -0700
To: aprssig@tapr.org
Message-ID: <9504081242.AA15466@smartdocs.com>
Rendered body type: text/plain

Hi.....

>> In SoCA, I am told the APRS frequency is 144.990 as assigned by TASMA.<<
>> I haven't got my APRS station on the air yet, but the local gurus encourage
>> us all to use this frequency for APRS packet activity.

>>
>> Roger Keating - KD6EFQ DM12jr
>> keating@nosc.mil
>
>

>144.990 in SoCal was assigned as the experimental modes freq, however,
>tcp/ip at 9600 bps is what you'll find there. I have never heard any
>APRS stations there. Most of us are probably on 1200 baud in 146.745 -600.

>
>Of course, that doesn't mean you couldn't set up there...
>

>Dick WB6NGC
>

Please do not use 144.990 as an APRS Frequency unless you are running
at 9600 Baud....This single frequency was designated for use as experimental
9600 and above....because it was felt that 1200 and 9600 do not mix on the
same frequency....146.745 as well as most of the other authorized digital
frequencies are available to APRS users and you should not cause a problem.
However, using 144.990 will make APRS users an unfriendly neighbor....

There is a move afoot to bring 145.790 into the packet community for
APRS....Please help by assisting the SCDCC in this effort.

73..Jim...N6HNY
SCDCC Director, SCARC

146. Re: [APRSSIG:696] NWX Bulletins to APRS parsing

From: "Ruston S. Baum" <rsb@crl.com>
Date: Sat, 8 Apr 1995 07:53:45 -0700 (PDT)
To: John Baum <jbaum@freenet.columbus.oh.us>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950408072520.2716B-100000@crl7.crl.com>
Rendered body type: text/plain

On Fri, 7 Apr 1995, John Baum wrote:

> The COSWN (Central Ohio Severe Weather Net) group has asked if it
> is possible to output the NWS Weather Wire and/or NEXRAD radar images to
> APRS. I remeber the thread about the WX Wire but nothing about radar. (But of
> course I didn't keep anything on the WX wire, seeing I have my nose buried
> in maps all the time.)

> If I remeber right, this was some experimental stuff at a few WX
> stations. Would someone(s) please refresh my memory.

>
>
> The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
> Packet address KB8JX0@W8CQK.#CMH.OH.USA
> The 137th most knowledgable person about A.P.R.S.
>
>
>

Hi John,

I will reply to you on SIG so everyone can share info. Here in ST.Louis
MIRSA (Mo. Ill. Regional Skywarn Association) and The St. Charles ARC run
a packet wxwire system from the local NWS office. The program that we use
called PC-AFSO could be used to input NWS products to any packet system.
What we do here in St.Louis is we tap a printer in the NWS office where
a copy of everything is sent for records. Just need two wires signal and
grd, run the data through the PC-AFSO where this program picks out the
products that we want to send out and transfers the data over to a
computer running MSYS BBS. We have the foward time set to -1 and so
anything that is enter as a bulletin is automaticly forwarded to other
BBSs via 9600 backbone system. One could input that data to APRS and

have it sent out I suppose. I have not done anything yet with the APRS due to lack of equipment and tower space at the NWS (they are buying us a new 80ft tower which will free up some antenna space right now we have a 25 footer.) It should be noted that after we got up and running we found on a average storm system that as many as 300 bulletins canbe generated, that blew some BBS OPs minds. If you would like to get this AFS0 program have your guys at your local NWS office get a hold of Bill Gerry from the NWS Regional office in Kansas City, Mo. His Inet address is:

William_Gery_at_W-CR-HUB@smtpgate.ssmc.noaa.gov

Now for the Doppler images, A fellow in Tulsa OK named Hinson wrote a program that allows RCM products to be sent over and view via packet. The RCM product is a graphic file of what is on the radar screen. In STL this product is captured every 30 mins and stored for records. We are going to move this time up to every 10 to 15 minutes. The product is binary and Hinson's program converts it to ASCII and is transmitted via packet on the users in we down load the file put it in his viewing program and we have doppler radar image in 6 or 8 colors. On can store several of these and the program will loop them giving you a moving picture.

Thats about the story onthat Bill is working on interfacing the radar stuff into the office network so that installation canbe done at any NWS office.

Need more info letme know.

73
Rusty

147. Re: [APRSSIG:681] Re: OS-2 Warp and WINDOWS

From: KBass@venable.com (Ken Bass)
Date: Sat, 08 Apr 1995 11:58:34 -0400
To: aprssig@tapr.org
Message-ID: <199504081558.AA07959@access2.digex.net>
Rendered body type: text/plain

>On Fri, 7 Apr 1995, Robert Bruninga wrote:

>

>> If someone that has it all figured out would write a WINDOWS.txt file or
>> an OS-2.txt file, I would be happy to distribute it...

>

Like Criag, I run APRS (6.8) under WINDOWS 3.11 with no problems at all. I simply created a new program icon and let it fly. No special PIFs or other changes were required. I'm not running it with any GPS, just with a TNC, however.

Ken Bass
K4EVH

148. Re: [APRSSIG:687] RE: Genius NewSketch 1212

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sat, 8 Apr 1995 12:36:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950408123407.15688C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 7 Apr 1995 BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US wrote:

> Where can I get a Qbasic compiler? I haven't seen any ad's or software at the
> typical software outlet's; Heck I don't even know what the name of one is so
> if someone could tell me I'd be happy indeed. Also about how much.

Its called QuickBasic 4.5 and is available from any computer software store, i'm sure. I paid \$69 for it. Its a complete deevlopment system of which the Qbasic normally supplied with DOS is only a minimum subset...

149. Re: [APRSSIG:685] HP96LX Palmtop

From: pwmarina@ix.netcom.com (Michael Mentuck)
Date: Sat, 8 Apr 1995 11:12:04 -0700
To: aprssig@tapr.org
Message-ID: <199504081812.LAA06341@ix2.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>

>The following is a packet message from a local Ham that has a very good
idea
>as to miniaturizing his mobile GPS/Packet equipment. Anyone out there

```

have
>any ideas?
>
>73 de Mike KE6EGK
>AOL MikeKE6EGK
>Internet MikeKE6EGK@aol.com
>-----
>-----
>
>
>>From      : AC6JA
>To         : APRS@ALLUS
>Type/status : BH
>Date/time  : 30-Mar 21:50
>BID (MID)  : 14139_KA6EYH
>Message #   : 79675
>Title      : APRS ON PALMTOP?
>
>HI THERE.
>
>NAME HERE IS MIKE AND I LIVE IN FOSTER CITY, CALIFORNIA. I WOULD BE
>INTERESTED IN HEARING FROM ANYONE WHO HAS SUCCESSFULLY USED THE APRS
PROGRAM
>ON A PALMTOP COMPUTER. PRESENTLY I HAVE A HEWLETT PACKARD HP95LX AND A
KAN-
>TRONICS KPC-3 VERSION 6.0 AND A RADIO SHACK HTX-202. I HAVE BEEN ABLE
TO USE
>THIS SETUP FOR REGULAR PACKET OPERATIONS, BUT I WOULD BE INTERESTED IF
THE
>APRS PROGRAM WOULD BE CAPABLE OF RUNNING ON THE PALMTOP, MAINLY DUE TO
THE
>SMALL SIZE OF THE SCREEN (40 X 16) AS OPPOSED TO STANDARD 80 X 25. ANY
HELP
>WOULD BE GREATLY APPRECIATED.
>THANKS!
>
>--- End of message #79675 to APRS from AC6JA ---
>
>Mike:

```

Although I'm not an accomplished APRS user, I do run it on my 100 LX on occasion. Here's what I have set up:

- A standard off-the-shelf HP 100 LX, with just the 1 megabyte of memory that comes with it; no PCMCIA card or anything like that.
- A PacComm Handi Packet TNC (Very small, internal Ni-Cads or external 12vdc. A great unit!).
- An earlier version of APRS - 4.?, I think.
- A Yeasu 2 meter radio. I find that using an H/T just doesn't have the punch needed for APRS or regular packet use.
- A small 1/4 wave magnetic mount antenna for almost anywhere operation.
- A cigarette lighter / alligator clip arrangement for powering the radio from a car, boat, whatever.

In order to run APRS, I have copied APRS???.EXE, USA.MAP, and my local map (MABOSTON.MAP), and MAPLIST.APR into the director structure required by the program.

I start up the HP, and in the Applications menu (the screen with all the icons) choose Menu, Applications, Terminate all. This closes out all the stuff running in the background, and frees up memory for APRS. You may have to fiddle with the memory configuration in the System screen to make room for the APRS files, but it shouldn't be too difficult.

It is slow, compared to running on a 486 machine, but once you are in the map you use most, the performance is acceptable. The screen aspect is off a little, because the HP display is wider than it is tall compared to a regular pc display, but if one has good eyes, the detail on the lcd display is clear and readable. I'm not sure what the difference between the 95 and 100 is, so you may not get the same results.

As I said, I'm by no means well versed in using APRS, and haven't yet mastered optimizing my digi path for the most efficient use, but have gotten it to receive and transmit with APRS, and the screen updates seem to confirm normal operation.

I have a Garmin hand held GPS I use on the boat, but haven't had the time (read I don't have the talent) to link them up to report my position.

As an added bonus, the built in comm software in the HP works just fine for regular packet operations, and doesn't take up any useable memory!

Good luck with the project, and let me know how you make out.

Mike Mentuck

150. Request

From: dougs@ccnet.com (Doug Smith)
Date: Sat, 8 Apr 95 18:35:20 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950408183605.dougs@ccnet.com>
Rendered body type: text/plain

Sbscribe Doug Smith

ORIGIN: Doug Smith dougs@ccnet.com
Pleasant Hill, CA http://www.ccnet.com/~dougs
WA6GON

151. 500mW 2-m xmtr

From: Andy MacAllister <amac@ICSI.Net>
Date: Sat, 8 Apr 1995 20:57:37 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9504082052.A10205-0100000@monet>
Rendered body type: text/plain

Hi! I need info on how to get one of the 0.25 cu.in. xmtr's for 144.34 MHz. Actually I could use a couple of them ASAP as we have a balloon launch in July and a local high school has a launch in May. Please respond with info. Was this in a ham mag anywhere? Thanks and 73 de Andy WA5ZIB

amac@icsi.net or wa5zib@amsat.org

152. Re: [APRSSIG:702] Re: Where's everyone?

From: keating@nosc.mil (Roger Keating)
Date: Sat, 8 Apr 1995 19:16:37 -0700
To: aprssig@tapr.org
Cc: jkeck@smartdocs.com (Jim Keck), tmill493@bssbbs.com (Tuck Miller - KC6ZEC)
Message-ID: <abaceff3020210043ffe@[128.49.184.29]>
Rendered body type: text/plain

> Hi.....
>
>>> In SoCA, I am told the APRS frequency is 144.990 as assigned by TASMA.<<
>>> I haven't got my APRS station on the air yet, but the local gurus encourage
>>> us all to use this frequency for APRS packet activity.
>>>
>>> Roger Keating - KD6EFQ DM12jr
>>> keating@nosc.mil
>>
>>
>>144.990 in SoCal was assigned as the experimental modes freq, however,
>>tcp/ip at 9600 bps is what you'll find there. I have never heard any
>>APRS stations there. Most of us are probably on 1200 baud in 146.745 -600.
>>
>>Of course, that doesn't mean you couldn't set up there...
>>
>>Dick WB6NGC
>>
> Please do not use 144.990 as an APRS Frequency unless you are running
> at 9600 Baud....This single frequency was designated for use as experimental
> 9600 and above....because it was felt that 1200 and 9600 do not mix on the
> same frequency....146.745 as well as most of the other authorized digital
> frequencies are available to APRS users and you should not cause a problem.
> However, using 144.990 will make APRS users an unfriendly neighbor....
> There is a move afoot to bring 145.790 into the packet community for
> APRS....Please help by assisting the SCDCC in this effort.
>
> 73..Jim...N6HNY

> SCDCC Director, SCARC

Jim,

I don't have my packet station on the air, but in telephone conversation with Del Radant, N6JZE, (619) 279-7692, one of the ARRL 00s in San Diego, he assures me that the only correct place for 1200 bps APRS stations on 2m is 144.990 in San Diego. I'm told this is the coordinated place for this mode, until something else is assigned.

He tells me that there are 32 stations on the air on this frequency in San Diego now. (Plus three unknown mobile stations Beacon IDing with JLI, MPK, PGY, and MZB.)

At a local presentation at the San Diego 220 club in March, the frequency 144.990 was announced as the officially (TASMA I think, but am not sure) coordinated frequency for APRS on 2m.

If this is not correct, we in San Diego await further instructions. It makes no sense for me to operate my station differently than every other station using APRS on 2m.

Roger Keating - KD6EFQ DM12jr
keating@nosc.mil

153. Micro transmitter

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 8 Apr 95 22:42:33 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.797395353.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The micro transmitters are available from AGRELLO ENGINEERING in upstate New York. I don't have the phone number at the moment, but they advertise in the common ham mags..

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

154. The NewSketch Digitizer Progress

From: W2H0B@aol.com
Date: Sat, 8 Apr 1995 22:59:41 -0400
To: aprssig@tapr.org
Message-ID: <950408225833_76749124@aol.com>
Rendered body type: text/plain

Well, my thanks to all who supplied info for the Genius NewSketch Digitizer. It works... very tedious, but I am on the road to success... not there yet, but on the way!

Special thanks to Bill, KE4EER (wnolle@fly.hiwaay.net) for a little program to slow down the puck's output... Bill, I still gotta be quick and not hit the button too long or a string of the same positions comes streaming out! I may try to stretch out the FOR NEXT statement if that 's ok by you. I compiled it and it's gotta be run.

Bob, APR, would you be interested in this little 6-7 line gem? I can send you the BAS source. You did ask and FYI, the tablet outputs a lot of points at once... I line up the puck's crosshairs hold it with my left hand and just tap the button for a point to take... gotta be quick!

The tablet does have the coordinates as you said and MAPFIX68 corrects them and keep on truckin'! Now... why does my back hurt... when I got up to go to the bathroom, I was walking up the stairs all hunched over... does this go with the job?!!!! Hi Hi

Have fun now... de Boyd AR Thanks again everyone.

155. Re: [APRSSIG:702] Re: Where's everyone?

From: Emmet2@aol.com
Date: Sun, 9 Apr 1995 01:49:58 -0400
To: aprssig@tapr.org
Message-ID: <950409014956_76867519@aol.com>
Rendered body type: text/plain

I must say that I am amazed and somewhat dismayed by the comments of those who have said they have, or have experienced others, securing a frequency by interfering with other's use of the frequency. This seems in direct conflict with the letter and spirit of the law and credence of Amateur Radio. There seems there must be a better way.

I understand what the gentleman in CT said. As a resident of CT I am fully aware there is NO coordinating body, which is rapidly causing a mess of repeaters and other frequency allocation/distribution in our fine state.

This does not, however, mean that one should resort to brute force or stubborn determination to win a frequency.

I think I might seriously consider what legal actions could be taken if a particular activity was established on a frequency and another activity just ignored our presence and started using it in an attempt to drive the first activity off.

I know this doesn't directly relate to APRS specifically, but since we were discussing a 'nationwide' frequency and how to secure one, we ought to ensure those who might have some footwork to find a frequency will be utilizing appropriate measures to secure the frequency.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

156. Re: [APRSSIG:652] Re: Frequency Coordination

From: klarson@access.digex.net (Kent Larson)
Date: Sun, 09 Apr 95 09:01:10 EDT
To: aprssig@tapr.org
Message-ID: <199504091301.AA20564@access3.digex.net>
Rendered body type: text/plain

On Thu, 6 Apr 1995 09:13:09 -0500 you wrote:

>>That is very interesting. We, me and several others, would be
>>interested in putting them in trackers but we want to stay on 145.79
>>for now. I have been looking for the MFJ data radio but they are
>>advertizing but not delivering. I wonder if anyone has found a source
>>for the MFJ 5 watt data radios?
>
>I just noticed that Radio Shack is selling their 2m HT for \$189 - so, for \$90
>more than the MFJ you can get a frequency agile 5W radio with a great rx
>front end. Tempting...

You are right, it is tempting, but since I just got back from a radio control convention in Toledo I think I will have to wait a while for that.

Kent

157. Re: [APRSSIG:711] The NewSketch Digitizer Progress

From: ICUMMINGS@delphi.com
Date: Sun, 09 Apr 1995 09:48:50 -0500 (EST)
To: aprssig@tapr.org, icummings@delphi.com
Message-ID: <01HP4PV94ZW195R2K9@delphi.com>
Rendered body type: text/plain

Hi Paul,

Well, I haven't either figured out how to delete more than one message at a time. If you figure out, let me know!

The silence is curious. I would be curious to read the "background" correspondence (email) that helped arrange this!

Ian

158. SONY PYXIS Pin-out

From: JKANDEL@umiami.ir.miami.edu
Date: Sun, 09 Apr 1995 11:01:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HP4SDBEYWYA25F3R@umiami.ir.miami.edu>

Rendered body type: text/plain

I am in possession of a SONY PYXIS GPS receiver and a Radio Shack RS-232 interface cable from their PDA. Is anyone in possession of a pin-out of the SONY PYXIS port, so that I can figure out how to modify the cable for GPS to TNC interface?
Joel Kandel, KI4T
jkandel@gate.com

159. Re: [APRSSIG:709] Re: Where's everyone?

From: jkeck@smartdocs.com (Jim Keck)
Date: Sun, 09 Apr 1995 08:09:15 -0700
To: aprssig@tapr.org
Message-ID: <9504091509.AB14710@smartdocs.com>
Rendered body type: text/plain

```
>> Hi.....
>>
>>>> In SoCA, I am told the APRS frequency is 144.990 as assigned by TASMA.<<
>>>> I haven't got my APRS station on the air yet, but the local gurus encourage
>>>> us all to use this frequency for APRS packet activity.
>>>>
>>>> Roger Keating - KD6EFQ          DM12jr
>>>> keating@nosc.mil
>>>>
>>>>
>>>>144.990 in SoCal was assigned as the experimental modes freq, however,
>>>>tcp/ip at 9600 bps is what you'll find there. I have never heard any
>>>>APRS stations there. Most of us are probably on 1200 baud in 146.745 -600.
>>>>
>>>>Of course, that doesn't mean you couldn't set up there...
>>>>
>>>>Dick WB6NGC
>>>>
>> Please do not use 144.990 as an APRS Frequency unless you are running
>> at 9600 Baud....This single frequency was designated for use as experimental
>> 9600 and above....because it was felt that 1200 and 9600 do not mix on the
>> same frequency.....146.745 as well as most of the other authorized digital
>> frequencies are available to APRS users and you should not cause a problem.
>> However, using 144.990 will make APRS users an unfriendly neighbor....
>> There is a move afoot to bring 145.790 into the packet community for
>> APRS....Please help by assisting the SCDC in this effort.
>>
>> 73...Jim...N6HNY
>> SCDC Director, SCARC
>
>Jim,
>I don't have my packet station on the air, but in telephone conversation
>with Del Radant, N6JZE, (619) 279-7692, one of the ARRL 00s in San Diego,
>he assures me that the only correct place for 1200 bps APRS stations on 2m
>is 144.990 in San Diego. I'm told this is the coordinated place for this
>mode, until something else is assigned.
>
>He tells me that there are 32 stations on the air on this frequency in San
>Diego now. (Plus three unknown mobile stations Beacon IDing with JLI,
>MPK, PGY, and MZB.)
>
>At a local presentation at the San Diego 220 club in March, the frequency
>144.990 was announced as the officially (TASMA I think, but am not sure)
>coordinated frequency for APRS on 2m.
>
>If this is not correct, we in San Diego await further instructions. It
>makes no sense for me to operate my station differently than every other
>station using APRS on 2m.
>
>Roger Keating - KD6EFQ          DM12jr
>keating@nosc.mil
>
```

I can see that my plea and request not to use 144.990 could have been inappropriate. Especially if someone thought I meant the whole of SoCA. I should have limited my comments to those stations in and around the Los Angeles area. How close that is and what effect you will have on 9600 Baud and above users depends on your location. The most widely distributed and available source is that Repeater Location Guide which on page 24 shows Packet Radio Band Plans. The frequencies it lists are the generally accepted digital frequencies for 2 meters, however, we are all aware that 144.950 is used by SAREX and should not be a General use or BBS frequency.

160. What APRS activities going on at DAYTON

From: "Ruston S. Baum" <rsb@crl.com>
Date: Sun, 9 Apr 1995 10:14:22 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950409101058.788B-100000@crl11.crl.com>
Rendered body type: text/plain

Any APRS activities going on at Dayton? Any forums ect.....
Its that time a year to migrate east to OHIO!

73
Rusty

161. Re: [APRSSIG:716] Re: Where's everyone?

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Sun, 9 Apr 1995 13:06:32 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504091806.NAA10072@solar.cs.tamu.edu>
Rendered body type: text/plain

Jim Keck sez:

>
> on page 24 shows Packet Radio Band Plans. The frequencies it lists are
> the generally accepted digital frequencies for 2 meters, however, we are
> all aware that 144.950 is used by SAREX and should not be a General use
> or BBS frequency.

Jim, just a quick note: While SAREX utilized 144.91, 144.93, 144.95, 144.97 and 144.99 for random voice contact uplinks, we don't claim those as "ours." We do ask tolerance, however, from the other users. SAREX, although flying more frequently than we used to, is still a periodic event. We "staked" out a number of frequencies well before packet radio existed. We are continuing to use them. We don't want to cause interference but it's considerably easier for others to either move or go quiet when we're overhead, and really that's all we ask... Let us operate, and work with us.

If that translates into a "no General use or BBS" statement, OK... We'd prefer to be good neighbors on this.

73,
Gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gergy@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

162. Re: [APRSSIG:712] Re: Where's...

From: K2ADJ@aol.com
Date: Sun, 9 Apr 1995 15:09:24 -0400
To: aprssig@tapr.org
Message-ID: <950409150824_77205161@aol.com>
Rendered body type: text/plain

With reference to Emmet2's comments about securing a nation wide frequency for APRS or any other new mode, who is going to say or coordinate it.. The logical one that comes to mind is the ARRL but they won't touch frequency since it is a hornets nest to start with and no one will agree with them.

73 de Rod

163. Test Message

From: john.kerr@projectx.com (SYSOP)
Date: Sun, 09 Apr 95 17:20:00 -5
To: aprssig@tapr.org
Message-ID: <8A71410.000100185E.uuout@projectx.com>
Rendered body type: text/plain

Just a test message to see that Project X in Brampton, Ontario is now active on the APRS subscription list.

John VE3SVE

164. Re: [APRSSIG:607] LOW POWER National Tracking Frequency

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>
Date: Sun, 9 Apr 1995 18:13:23 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <9504091813.aa12258@comix.Santa-Cruz.Ca.US>
Rendered body type: text/plain

> The way we ended up on 145.79 was that it was designated as an
> experimental frequency. GPS tracking seemed to fit that discription just
> perfectly. Then, as it evolved in to a permanent system, we realized
(...)
> P.S. Remember the "target" frequency of 445.925 on UHF too.. See UHFfreq.txt
> (although I still have no reports of anyone there yet..)

In the Northern Calif area, 145.79 is heavily used.
(This is from an old CPRL list and may be somewhat dated)

FMTMB	N6QMY-1	145.79	BBS USER PORT	FREMONT	B
FMTNOD	N6QMY-2	145.79	SOUTH SF BAY AREA	FREMONT	Q
KERN	WB6ODZ	145.79	BBS/USER PORT	WOFFORD HEIGHTS	2500 B
KERN1	WB6ODZ-1	145.79	USER NODE	SHIRLEY PEAK	7125 N
LAY	K7WWA-10	145.79	NO. MENDOCINO CO.	LAYTONVILLE	4480 N
#BLBBS	N6MPW-7	145.79		BEN LOMOND	BQ
#BLNOD	N6MPW-6	145.79		BEN LOMOND	N
?	N6REB-2	145.79		MODESTO	B
?	WA6KTK-2	145.79		MANTECA	B

445.925 is the *INPUT* of our radio club repeater (K6BJ) in Santa Cruz.

The defacto APRS frequency for San Francisco and Monterey Bay is
145.010 via K6TAM-5, W6CX-3 and WA6AFT-3 full time digipeaters.
These are all on mountaintops. My current beacon listing for
Sunday afternoon (APRS busy time) shows 24 different call signs
in the last hour. The beacon list also shows just about every
APRS version distributed. During the weekday commutes, there are
2-5 mobiles with GPS appearing.

One problem with "experimental" frequencies is that once the technology
is proven, it's hard to get people to move. 146.52 is alleged to be
the "calling frequency" but has degenerated into the local rag chew
channel. The 441.875+ "test pair" is occupied by dozens of private
phone patches. HF packet forwarding was suppose to be "experimental"
but became permanent. If anyone knows of an unoccupied nationwide
frequency suitable for APRS, please let us know.

--

Jeff Liebermann Box 272 1540 Jackson Ave Ben Lomond CA 95005
408.336.2558 voice wb6ssy@ki6eh.#nocal.ca.usa wb6ssy.ampr.org [44.4.18.10]
408.699.0483 digital_pager 73557,2074 cis [don't]
jeffl@comix.santa-cruz.ca.us scruc.ucsc.edu!comix!jeffl

165. Re: [APRSSIG:685] HP96LX Palmtop

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Sun, 9 Apr 1995 19:28:49 -0700
To: aprssig@tapr.org
Message-ID: <199504100228.TAA15297@ix4.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>The following is a packet message from a local Ham that has a very good
idea
>as to miniaturizing his mobile GPS/Packet equipment. Anyone out there
have
>any ideas?
>
>73 de Mike KE6EGK
>AOL MikeKE6EGK
>Internet MikeKE6EGK@aol.com
>-----
>-----
>-----
>
>
>>From : AC6JA
>To : APRS@ALLUS
>Type/status : BH
>Date/time : 30-Mar 21:50
>BID (MID) : 14139_KA6EYH

```

>Message #      : 79675
>Title         : APRS ON PALMTOP?
>
>HI THERE.
>
>NAME HERE IS MIKE AND I LIVE IN FOSTER CITY, CALIFORNIA. I WOULD BE
>INTERESTED IN HEARING FROM ANYONE WHO HAS SUCCESSFULLY USED THE APRS
PROGRAM
>ON A PALMTOP COMPUTER. PRESENTLY I HAVE A HEWLETT PACKARD HP95LX AND A
KAN-
>TRONICS KPC-3 VERSION 6.0 AND A RADIO SHACK HTX-202. I HAVE BEEN ABLE
TO USE
>THIS SETUP FOR REGULAR PACKET OPERATIONS, BUT I WOULD BE INTERESTED IF
THE
>APRS PROGRAM WOULD BE CAPABLE OF RUNNING ON THE PALMTOP, MAINLY DUE TO
THE
>SMALL SIZE OF THE SCREEN (40 X 16) AS OPPOSED TO STANDARD 80 X 25. ANY
HELP
>WOULD BE GREATLY APPRECIATED.
>THANKS!
>
>--- End of message #79675 to APRS from AC6JA ---

```

We're running the current version on the HP200LX with no problems! We simply have the maps we need and the SYSTEM files, and the few from the root and it works great!

We've been trying to work the digital modes into public service events...when everyone sees this neat stuff, heads turn!
Dan

```

--
-----
dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!
-----

```

166. MFJ 1278

```

From: Bill Reid <75036.1632@compuserve.com>
Date: 10 Apr 95 01:05:21 EDT
To: Bob Bruninga <aprssig@tapr.org>
Message-ID: <950410050521_75036.1632_CHI37-1@CompuServe.COM>
Rendered body type: text/plain

```

Bob...

Sure do appreciate your help with solving the MFJ 1278 communication protocol dilemma. I went over to WB4ZVH's QTH and had him up and going in no time. Here are the changes I made from his defaults:

```

PAR 0
8BITCONV ON
AWLEN 8

```

That did the trick.

Thanks again.

73,
Bill

167. Re: [APRSSIG:705] RE: Genius NewSketch 1212

```

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Mon, 10 Apr 1995 09:44:37 -0500
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <9504101343.AA04106@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```

At 11:47 AM 4/8/95 -0500, Robert Bruninga wrote:

```

>
>Its called QuickBasic 4.5 and is available from any computer software
>store, i'm sure. I paid $69 for it. Its a complete deevlopment system
>of which the Qbasic normally supplied with DOS is only a minimum subset...
>
I tried to buy one a month ago, and it seems that it is not available (the computer store here at the university didn't found it in microsoft catalogue). It has been replaced by Microsoft Basic 7(for dos), and by

```

visual basic (for windows development).
Perhaps you should be able to find qb45 somewhere, but microsoft basic 7 is supposed to compile everything from qb45, and is supposed to be better. I never tried it.

Bernard, KBT2GH

168. Re: [APRSSIG:712] Re: Where's everyone?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 10 Apr 1995 10:33:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950410100950.20123H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I echo the sentiments recently expressed about the inappropriateness of just grabbing a frequency. And to be sure that no one attributes that kind of un-gentlemanly behavior to me, let me again state my objective in targeting 145.79:

Since mobiles with GPS cross political boundaries, there is an advantage to finding a nationwide GPS tracking frequency. As a target, 145.79 has been proposed. If you can get this frequency coordinated in your area, please do so. I am NOT advocating just taking it over if it is already in use..

..

169. minimal aprs, was Re:HP96LX Palmtop

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Mon, 10 Apr 1995 10:51:13 -0500
To: aprssig@tapr.org
Message-ID: <9504101449.AA04159@seism1.ess.sunysb.edu>
Rendered body type: text/plain

> I WOULD BE
>INTERESTED IN HEARING FROM ANYONE WHO HAS SUCCESSFULLY USED THE APRS PROGRAM
>ON A PALMTOP COMPUTER.

Not directly related to that, but when I tried mac aprs this weekend on my mac lc, 6 meg of ram, i couldn't run anything else.
It would be great if we had just a minimal program (for mac or for pc), using as less memory as possible, just grabbing pertinent data from the com port (stations position, messages ...), saving them in a file that is readable by aprs, and sending a few packets when needed (basically only ack packets, the station position can be send by the tnc with the beacon function). So one could leave this program running in the background all the time (using the computer for something else), or run it on a small palmtop; and just read all these data when starting aprs to be in the network with all the information on hand.

Bernard, KB2TGH.

170. Re: [APRSSIG:726] minimal aprs, was Re:HP96LX Palmtop

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Mon, 10 Apr 95 11:16:57 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.797527017.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

The Macintosh version of APRS will run in as little as 4meg with everything installed. It will run in even less if you disable the data bases. See the manual on how to do that. (You simply remove the data base files from the DATA folder, and they won't get loaded) Many people have run MacAPRS on 4meg Mac Pluses and it runs fine.. with the program only using 2meg.. It has also been run on the old Macintosh Portable with 4meg and a Powerbook 100 with only 4 meg..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

171. Re: [APRSSIG:701] Re: 20m, anyone?

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)
Date: Mon, 10 Apr 95 17:40:17 MET DST
To: aprssig@tapr.org
Message-ID: <9504101540.AA04633@sunrise.e-technik.uni-ulm.de>

Rendered body type: text/plain

>
> What frequency and modulation mode is being used for APRS on 20m?
>
>
> William Manley
> z002594b@bcfreenet.seflin.lib.fl.us
>

>From what I heard, the 20m frequency is 14.958 MHz USB if you use the AEA tones.

73,
Hermann
DF2DR

172. Re: [APRSSIG:569] dead recjib reckoning on hf

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 10 Apr 1995 12:02:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950410115908.20123Y@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 1 Apr 1995, GEORGE J. POLAND wrote:

> I have noticed that dead reckoning seems to work fine on vhf but not on hf
> Am I imagining this problem, as no one else seems to notice it.?

APR REPLY: Remember that APRS changes your time from local to ZULU as you switch between HF and VHF. This screws up times for position reports considerably!! All the ones on your P list already, will remain with the time AS RECEIVED. But after you switch, all new posits will be in the new time. I donno of a solution, cuz , time s on HF should be in ZULU...

173. Re: [APRSSIG:680] APRS6.8 and stuff

From: mmunster@qualcomm.com (Marvin Munster x5388)
Date: Mon, 10 Apr 1995 09:18:03 -0800
To: aprssig@tapr.org
Message-ID: <abaf185a2c02100493f1@[129.46.12.181]>
Rendered body type: text/plain

Is APRS6.8 at any FTP site yet?
Marvin - WB6PKK

At 9:50 AM 4/7/95, Robert Bruninga wrote:
>Concerning GPS frequencies, I hope that everyone has tried the
>APRFREQ.BK file which displays a USA map with all the known (reported)
>APRS frequencies. (It used to be called USAFREQS.bk) I welcome any
>additions to this map. So far, I havent gotten any new
>reports in months... I only want freqs where there are PERMANENT WIDE's
>OR at least COORDINATED activity. This map makes an excellent pre-travel
>guide....
>
>If you have an input to this map, send it by EMAIL. Just send me in text
>format the LAT/LONG and FREQ. These labels are meant to show at the USA
>level, so if you have multiple WIDES, we only want ONE report.
>
>Just posted 6.8. Things you will notice (maybe)
>* fixed HSP probs due to APRS not storing RMC from its own GPS
>* New OPS-DIGI commands
>* alt-SETUP-GPS-GGA command for selecting GGA only (gets altitude)
>* KAMS no longer get "GATE BITCH" when on VHF side
>* MESSAGES now have their own screen! (swapped R and T commands)
>* Fixed 43 line 3D altitude display
>* RESTORE.TNC is now in APRS\SYSTEM directory. Move yours there.
>Gud Luk

174. To those Florence users

From: wnolle@fly.HiWAAY.net
Date: Mon, 10 Apr 95 11:13:01 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950410112454.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

I received a message from Bob Bruninga regarding some APRS users that may be operating in Florence,AL one of which is WA4KBD. Well we here in Madison county,AL operate on 145.790.

```

      ^\^
     /  \
    |    |
   |\|  \| (o) (o) \| |
-----0.000o-----oo-----o000.-----
          KE4EER
PKT:KE4EER@K4BFT.#NOAL.AL.USA.NA
 [EM64sx]
APRS 145.790Mhz
3458'34N-08629'53W
          oooo.
         .oooo ( )
        ( )    ) /
       \ (     _/_
        \_)

```

From: Bob Lorenzini <wd6dod@wd6dod.ampr.org>
Date: Mon, 10 Apr 1995 10:48:26 -48000
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9504101038.A273-0100000@wd6dod.ampr.org>
Rendered body type: text/plain

>
> 144.990 has been coordinated for APRS use in San Diego. There
> are other parts of Southern California.
>
> Duane - K06BT
> duane_naugle@smtpgate.mitchell.com

Coordinated by who I might ask, certainly not Tasma. This was an unfortunate choice as it is the ONLY vhf 9600 baud freq in SoCal. If you were unaware, these modes are incompatible as 9600 modems have state dcd and will happily key down on 1200 baud. We have an internet gateway and bbs right on the coast in orange county which will be in conflict when the summer duct comes in. In fact both the OC and LA county internet gateways are on 144.990. Will SD mobiles ever come north?

Folks this points out the need to choose carefully your local APRS frequency and work with the local coordinating body. I would hate for APRS to get the reputation that dx-cluster has earned by doing their own thing without regard for their neighbors.

Bob - wd6dod
bobl@citpac.gps.caltech.edu

178. Re: [APRSSIG:734] Re: Where's everyone?

From: duane_naugle@smtpgate.Mitchell.Com (duane naugle)
Date: Mon, 10 Apr 95 11:42:55 PST
To: aprssig@tapr.org
Message-ID: <9503107975.AA797539375@smtpgate.mitchell.com>
Rendered body type: text/plain

Yes, Tasma the Two-meter Amateur Spectrum Management Association. The coordinating body for Southern California. Contact them Bob, join for \$10 and you can vote. I don't know why it happened, maybe they couldn't find another frequency. Close work with a coordinating body is what happened here. Maybe that is not enough.

Duane K06BT
duane_naugle@smtpgate.mitchell.com

Subject: [APRSSIG:734] Re: Where's everyone?
Author: aprssig@tapr.org at SMTPGate-Mitchell
Date: 4/10/95 11:09 AM

>
> 144.990 has been coordinated for APRS use in San Diego. There
> are other parts of Southern California.
>
> Duane - K06BT
> duane_naugle@smtpgate.mitchell.com

Coordinated by who I might ask, certainly not Tasma. This was an unfortunate choice as it is the ONLY vhf 9600 baud freq in SoCal. If you were unaware, these modes are incompatible as 9600 modems have state dcd and will happily key down on 1200 baud. We have an internet gateway and bbs right on the coast in orange county which will be in conflict when the summer duct comes in. In fact both the OC and LA county internet gateways are on 144.990. Will SD mobiles ever come north?

Folks this points out the need to choose carefully your local APRS frequency and work with the local coordinating body. I would hate for APRS to get the reputation that dx-cluster has earned by doing their own thing without regard for their neighbors.

Bob - wd6dod
bobl@citpac.gps.caltech.edu

179. Doppler radar data & APRS

From: paul@paccomm.com
Date: Mon, 10 Apr 95 12:17:36 UTC
To: aprssig@tapr.org
Message-ID: <2525@paccomm.com>
Rendered body type: text/plain

Hi. Been talking with Bob about getting APRS to do this for about 10 days or so. I think it'd be very neat indeed to shoot this data out over APRS. We need to know just how much data is involved before taking all of the bandwidth out of poor old 145.79MHz!!!! Anybody got the data format for public release ?????? pse direct it towards Bob..... Paul.

Paul Evans, W4/G4BKI paul@paccomm.com
+1 (813) 874-2980 Fax:+1 (813) 872-8696 BBS: +1 (813) 874-3078 (V.34)
The views expressed in this message are not necessarily those of PacComm.
Vice President of Florida CW Contest Group
Runners-up in NAQP CW at our FIRST attempt
PacComm Packet Radio Systems, Inc., 4413 N. Hesperides St., Tampa, FL 33614-7618

180. Re: [APRSSIG:728] Re: 20m, anyone?

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 10 Apr 1995 16:46:57 -0400 (EDT)
To: Hermann Schumacher <hschu@sunrise.e-technik.uni-ulm.de>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9504101658.B1538-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

TU Herman. I did listen on 14.096 usb on Saturday and posted no APRS traffic. I'll continue to try ...on 14.098 usb as you suggest.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Mon, 10 Apr 1995, Hermann Schumacher wrote:

> >
> > What frequency and modulation mode is being used for APRS on 20m?
> >
> >
> > William Manley
> > z002594b@bcfreenet.seflin.lib.fl.us
> >
> >
> >From what I heard, the 20m frequency is 14.958 MHz USB if you use the
> > AEA tones.
> >
> > 73,
> > Hermann
> > DF2DR
> >
> >

181. APRS distribution

From: George.Henry@f668.n115.z1.fidonet.org (George Henry)
Date: 10 Apr 95 12:27:30 -0600
To: aprssig@tapr.org
Message-ID: <d31_9504101530@chigate.fidonet.org>
Rendered body type: text/plain

Attn: Bob Bruninga, WB4APR

Would you consider including the FidoNet node numbers of the BBS's that distribute new releases of APRS in the doc's somewhere? Also, you might want to make arrangements to release into the Ham Distribution Net also, for better coverage. The ftp server is ftp.iea.com, directory /pub/borg/hdn, FidoNet 1:124/7010, CrossNet 73:6101/1

Thanks!

de KA3HSW

182. Re: [APRSSIG:738] APRS distribution

From: janderson@ram.net (Jack Anderson)
Date: Mon, 10 Apr 95 18:11:46 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a95@ram.net>
Rendered body type: text/plain

>Would you consider including the FidoNet node numbers of the BBS's that
>distribute new releases of APRS in the doc's somewhere? Also, you might wan

>to make arrangements to release into the Ham Distribution Net also, for better coverage. The ftp server is ftp.iea.com, directory /pub/borg/hdn, FidoNet >1:124/7010, CrossNet 73:6101/1

Just FYI, 1:109/239 gets the updates, usually same day as release.

Jack

183. Re: [APRSSIG:736] Doppler radar data & APRS

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 10 Apr 1995 16:52:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.950410165030.289A-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Mon, 10 Apr 1995 paul@paccomm.com wrote:

> Hi. Been talking with Bob about getting APRS to do this for about
> 10 days or so. I think it'd be very neat indeed to shoot this data
> out over APRS. We need to know just how much data is involved
> before taking all of the bandwidth out of poor old 145.79MHz!!!!
> Anybody got the data format for public release ??????
> pse direct it towards Bob.....
> Paul.

If I'm not mistaken, doppler wx radar data are proprietary. I think WSI
(?) controls the dissemination.

Someone correct me if I'm wrong.

184. Re: [APRSSIG:740] Re: Doppler radar data & APRS

From: janderson@ram.net (Jack Anderson)
Date: Mon, 10 Apr 95 19:13:29 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a98@ram.net>
Rendered body type: text/plain

>On Mon, 10 Apr 1995 paul@paccomm.com wrote:

>
>> Hi. Been talking with Bob about getting APRS to do this for about
>> 10 days or so. I think it'd be very neat indeed to shoot this data
>> out over APRS. We need to know just how much data is involved
>> before taking all of the bandwidth out of poor old 145.79MHz!!!!
>> Anybody got the data format for public release ??????
>> pse direct it towards Bob.....
>> Paul.
>
>If I'm not mistaken, doppler wx radar data are proprietary. I think WSI
> (?) controls the dissemination.
>
>Someone correct me if I'm wrong.

There is ASCII radar data from the NWS, the SD data sets, available from noncommercial Weatheration systems or commercial online services (Compuserve, GENIE, etc.) The SD data sets are very similar to the SA "Surface Airway" forecasts that are obtained from the same sources. APRS already has the capability to parse and display data from the SA data.

The SD data is designed to be read (with some difficulty) by humans, and I have a program that parses it and delivers some pretty good color radar summaries. When compared to "actual" radar the results are very close.

The SD data doesn't take too many characters to convey the current radar information. The DOS program I have, Weatherview (shareware), does a fine job of displaying the results, although the "pixels" are little boxes that appear to be rather large, maybe a mile or more square.

Sometimes I notice crude ASCII character graphics with the SD command, but most of the time it delivers 2 or 3 lines of SD formatted radar summary information.

For an example, I have included the section of my Weatherview doc that describes the SD data format, and a session from my local Weatheration service with some sample SD data from 1900 EST 4/10/95.

Jack

Sample WEATHERATION session with SD data for MD, NY and FL:

CONNECT 2400

Welcome to WeatherMation (tm)
Developed by PAN AM Weather Systems
6300 34th Ave. S., Minneapolis, MN 55450
Phone: (612) 727-1084
Provided by: Dulles Aviation -- HEF
For HELP type HELP, to exit type BYE

```
*                WEATHERMODEM+ RELEASE 3.0 IS AVAILABLE!!                *
*  CALL NOW WITH YOUR SERIAL NUMBER READY FOR INFORMATION ON UPGRADING  *
*                UPGRADE FROM PREVIOUS VERSION IS ONLY $39.                *
*****
*****
*                MODEM UPDATE                *
*WeatherModem+ software does not support some high speed modems including:*
* Zoom, Practical Peripheral, and Hayes Accura 14.400 modems.                *
* If you are considering upgrading your modem, please keep this in mind!! *
*                If you have any questions, please contact PAN AM.                *
*****
                Call Keith Prokasky at PAN AM Systems for more information and
                updated pricing at 1-612-727-1084
```

System time is Mon Apr 10 22:53Z Coordinated Universal Time

Session: 14 mns. 55 secs.
Weathermation (tm) >>Welcome to WeatherMation (tm)
Developed by PAN AM Weather Systems
6300 34th Ave. S., Minneapolis, MN 55450
Phone: (612) 727-1084
Provided by: Dulles Aviation -- HEF
For HELP type HELP, to exit type BYE

Weathermation (tm) >>sd md

NHK 1925 AREA 6RW/NEW 315/105 280/150 30W C2650 MT 292/115
AREA 1RW-/- 6/95 123/125 237/20 C2745 MT 140 AT 9/50 CVRG
DCRG RPDLY
^IL1 JM1 LH11 LO1001 MH11 NH1 OH1

KWBC 102135

```
+ 11 001
      11
      11
      11111
      123232...
      .23333 ....
      . 14.11 .
      .122111 .
      .1221 .
      .1221 .
      .1111 .
      111. 11 .
      111. .... .
      1 .
      . RR .
      . R .
      R . R .
      R .
      RR .
      R .
      R .
      R .
      R .
```

R
R.
R
+ 41 001

Session: 14 mns. 24 secs.
Weathermation (tm) >sd ny

BGM 2235 AREA 4R- 239/121 136/106 100W
AREA 4R- 101/120 125/74 30W
AUTO
^LP101 MQ1 NN22 ON111111 PK1222101 QK121201 RK22221

BUF 2225 PPINE

NYC 2230 PPIOM UFN ALTN BDL

OKX 2235 AREA 1RW+5R- 292/125 200/117 80W MT 200 AT 198/79
AREA 3R- 4/54 295/89 55W
AUTO
^KK11 LI1011 MJ1 OH111111 PJ12221 QK32221 RL223

Session: 14 mns. 13 secs.
Weathermation (tm) >sd nj

'Radar Observations' information for 'NJ' is unavailable.

Session: 13 mns. 57 secs.
Weathermation (tm) >sd fl

DAB 2225 AREA 1RW/NC 125/50 215/60 20W C0920 MT 100 AT 220/50
^PM2

EYW 2225 PPINE

MLB 2235 PPINE AUTO

NPA 2225 PPINE

PBI 2228 AREA 1RW1R-/- 358/25 95/90 25W C0808 MT 170 AT 92/64
^KQ1 LM20221

TBW 2225 PPINA

Session: 13 mns. 47 secs.
Weathermation (tm) >bye

Thank you for calling WeatherMation

Session: 13 mns. 43 secs.
Weathermation (tm)

Excerpt from WEATHERVIEW documentation with explanation of SD data format:

The data retrieved in the raw SD format is decoded in the following manner.

Format:
Station ID/time/location intensity azimuth and range/movement/
tops/precipitation type-intensity trend/remarks/end

Example: NYC 1930 AREA 2 TRW++/+ 297/130 152/115 160W C2620
MT 300 AT 254/39 HAIL REPORTED THIS CELL

NYC RADAR 1930 UCT; AREA OF ECHOES 2/10 COVERAGE, VERY HVY
THUNDERSTORMS FROM 297 DEGREES/130 NM TO 152 DEGREES/115 NM; AREA IS
160NM WIDE;MAX TOP 30,000' AT 245 DEG/39NM; RMKS PLAIN LANGUAGE;

Intensity Decoder

Level	Echo Intensity	Precip Intsy	Rainfall Rate
-----	-----	-----	-----
1	Weak	None or light	<.1-.2

2	Moderate	Moderate	.1-1.1
3	Strong	Heavy	.5-2.2
4	Very Strong	Very Heavy	2.2-4.5*
5	Intense	Intense	4.5-7.1*
6	Extreme	Extreme	>7.1 in/hr

*= only in convective situations

8	Unknown but associated with severe wx
9	Unknown

Abbreviations

HOOK - signature "tail" usually associated with tornadoes
 HAIL - radar indicated hail
 LINE - echoes are in a line
 LEWP - Line Echo Wave Pattern - wavy line
 FNLN - FiNe LiNe; narrow non-precipitation echo pattern
 BWER - Bounded Weak Echo Region - echo free vault within a cell
 ALFT - precipitation ALoFT
 MALF - Mostly ALoFT precipitation
 PALF - Partly ALoFT precipitation
 MLVL - Melting LeVeL; radar detection of melting of frozen precip
 PCLL - Persistent CeLLs
 SLD - SoLiD areas of 80% or more

PPINE - equipment normal; No Echoes
 OM - inOp or out of service for Maintenance
 NA - observation Not Available
 NS - equipment normal; No Significant echoes
 ROBEPS Radar Operating BELow Performance Standards
 ARNO - Azimuth Range indicator iNOperative
 RHINO - Radar Height Indicator iNOperative

Note: above SA and SD decoding information was taken from the
 Compuserve file WXDECO.TXT.

The NWS radar stations take the SD digital radar reading at
 approximately 25 minutes past the hour. It is usually available for
 download at 40 to 45 minutes after the hour.

185. [APRSSIG:741] Re: Doppler radar data & APRS (fwd)

From: csetzer@rmii.com (Craig Setzer)
 Date: Mon, 10 Apr 1995 18:23:10 -0600 (MDT)
 To: aprssig@tapr.org
 Message-ID: <m0ryTja-0004kEC@rmii.com>
 Rendered body type: text/plain

>
 > On Mon, 10 Apr 1995 paul@paccomm.com wrote:
 > >
 > > Hi. Been talking with Bob about getting APRS to do this for about
 > > 10 days or so. I think it'd be very neat indeed to shoot this data
 > > out over APRS. We need to know just how much data is involved
 > > before taking all of the bandwidth out of poor old 145.79MHz!!!!
 > > Anybody got the data format for public release ??????
 > > pse direct it towards Bob.....
 > > Paul.
 > >
 > > If I'm not mistaken, doppler wx radar data are proprietary. I think WSI
 > > (?) controls the dissemination.
 > >
 > > Someone correct me if I'm wrong.

And Jack Anderson responded with:

>
 > There is ASCII radar data from the NWS, the SD data sets, available from
 > noncommercial Weatheration systems or commercial online services (Compuserve,
 > GENIE, etc.) The SD data sets are very similar to the SA "Surface Airway"
 > forecasts that are obtained from the same sources. APRS already has the
 > capability to parse and display data from the SA data.
 >
 > The SD data is designed to be read (with some difficulty) by humans, and I
 > have a program that parses it and delivers some pretty good color radar
 > summaries. When compared to "actual" radar the results are very close.
 >
 > The SD data doesn't take too many characters to convey the current radar
 > information. The DOS program I have, Weatherview (shareware), does a find
 > job of displaying the results, although the "pixels" are little boxes that

```
> appear to be rather large, maybe a mile or more square.
>
> Jack
>
> NHK 1925 AREA 6RW/NEW 315/105 280/150 30W C2650 MT 292/115
> AREA 1RW-/- 6/95 123/125 237/20 C2745 MT 140 AT 9/50 CVRG
> DCRG RPDLY
> ^IL1 JM1 LH11 L01001 MH11 NH1 OH1
>
```

The above SD is also called a ROB (Radar OBservation). The line beginning with ^IL1 is the MDR or manually digitized radar portion of the ROB. It is from the MDR that many plotting programs get their data. The letters correspond to grid boxes with MM being the grid box at the radar. The boxes are pretty big, I think they are about 10 miles square and are biased to the highest reflectivity found in the box, so that you only get a very rough idea of precip areas but not individual cells. For APRS use on a local level the MDR data may not contain enough detail for most users and certainly not enough for Skywarn/ARES/RACES/EC uses.

The RCM message is quite different from the ROB in that by using the correct decode program, the RCM gives a contoured plot of each of six reflectivity levels, plus the storm tops, plus movement, plus winds aloft. The RCM message is usually not that big (around 5k) when there are a few storms.

Now the question, what is the format of RCM data so that it can be included into APRS? Sorry, I'm working on that one and will have to get back to everyone interested.

Craig

```
*****
Craig Setzer
```

```
Internet: csetzer@rmii.com
HAM Radio: KB0MXQ
```

```
--You'll find me in the bear's cage...
*****
```

186. Re: [APRSSIG:742] Re: Doppler radar data & APRS (fwd)

```
From: janderson@ram.net (Jack Anderson)
Date: Mon, 10 Apr 95 21:53:06 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0a99@ram.net>
Rendered body type: text/plain
```

```
>The above SD is also called a ROB (Radar OBservation). The line
>beginning with ^IL1 is the MDR or manually digitized radar portion
>of the ROB. It is from the MDR that many plotting programs get their
>data. The letters correspond to grid boxes with MM
>being the grid box at the radar. The boxes are pretty big, I think
>they are about 10 miles square and are biased to the highest
>reflectivity found in the box, so that you only get a very
>rough idea of precip areas but not individual cells.
>For APRS use on a local level the MDR data may not contain
>enough detail for most users and certainly not enough for
>Skywarn/ARES/RACES/EC uses.
```

It sounds like the Weatheration program I'm using is parsing the MDR data. I looked at today's data on the graphic display and the little boxes appear to be about 10 miles or so on a side, maybe a bit less.

The advantage I see with this (the MDR format) is that for just a few lines of ASCII, one can get some pretty decent graphics. I agree that the level of detail may not be sufficient for local operations, and that, combined with the latency, may make it ineffective for emergency use, i.e. Skywarn. But, it's hard to beat the graphic output that can be obtained with the small amount of data in the format.

```
>The RCM message is quite different from the ROB in that by using
>the correct decode program, the RCM gives a contoured plot
>of each of six reflectivity levels, plus the storm tops, plus
>movement, plus winds aloft. The RCM message is usually not
>that big (around 5k) when there are a few storms.
>
```

>Now the question, what is the format of RCM data so that it
>can be included into APRS? Sorry, I'm working on that one
>and will have to get back to everyone interested.

Where can the RCM data be obtained, and what software is needed to display it? I'd love to have a program that can display the radar conditions with more detail. The Weatheration banner talks about optional (\$) services that include a better radar displays - but the user needs their terminal program to display it.

Jack

187. Re: [APRSSIG:736] Doppler radar data & APRS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 10 Apr 1995 21:45:29 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504110245.VAA27568@solar.cs.tamu.edu>
Rendered body type: text/plain

paul@paccomm.com sez:

>

> Hi. Been talking with Bob about getting APRS to do this for about
> 10 days or so. I think it'd be very neat indeed to shoot this data
> out over APRS. We need to know just how much data is involved
> before taking all of the bandwidth out of poor old 145.79MHz!!!!
> Anybody got the data format for public release ??????
> pse direct it towards Bob.....

Gee. We were just talking about this on the linked repeater system down this way...

I've got to talk to a couple of folks re: data formats and processing. I was thinking in terms of doing a raster-save of the static (it really is in vel. mode) image, doing a vectorization of the data, and an MPEG-type proc to see what's changed. Then, the data would be sent as RADAR station lat and lon, azimuth, distance, dBz, velocity. This would be a pretty reasonable packet, although the total data would be of variable length. Some of the preprocessing power, before it got into the packet system would have to determine gating thresholds for the dBz and vel. data, too, or we'd be updating a lot of data pretty frequently.

Later, Gerry
gerry@cs.tamu.edu

188. Re: [APRSSIG:740] Re: Doppler radar data & APRS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 10 Apr 1995 21:49:15 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504110249.VAA27641@solar.cs.tamu.edu>
Rendered body type: text/plain

I suspect a subset, plus/minus appropriate processing, might be doable, if WSI and NWS are approached properly. Especially if NWS puts pressure on WSI. The data format for the WSR-88D is a government document, so, finding the appropriate ICD (interface control document), while tedious, should be possible.

73, gerry
gerry@cs.tamu.edu

189. [APRSSIG:743] Re: Doppler radar data & APRS (fwd)

From: csetzer@rmii.com (Craig Setzer)
Date: Mon, 10 Apr 1995 20:55:57 -0600 (MDT)
To: aprssig@tapr.org
Message-ID: <m0ryW7R-00043tC@rmii.com>
Rendered body type: text/plain

Jack Anderson wrote back:

>

> It sounds like the Weatheration program I'm using is parsing the MDR data.
> I looked at today's data on the graphic display and the little boxes appear to
> be about 10 miles or so on a side, maybe a bit less.

Yes, there are some other programs out there like WeatherGraphix that do the same thing. Many national radar summaries use this data on a national basis but now mosaic images of Nexrad sites give a higher resolution image.

>
 > The advantage I see with this (the MDR format) is that for just a few lines of
 > ASCII, one can get some pretty decent graphics. I agree that the level of
 > detail may not be sufficient for local operations, and that, combined with the
 > latency, may make it ineffective for emergency use, i.e. Skywarn. But, it's
 > hard to beat the graphic output that can be obtained with the small amount of
 > data in the format.

Yes, but the RCM files are not woppers and could be transmitted
 via packet within a few minutes. What we (the Colorado Springs,
 El Paso County Skywarn folks) would like to do some day is take
 the RCM data (which in most places is only available on an hourly
 or half hourly basis) and plot it on the APRS with a close
 in map, say 50 mile range. Then we would take a few of our
 mobile spotters/chasers, put a GPS/radio for beaconing location and a
 voice radio for comms in their car and send them out. Imagine how effective
 a net controller/NWS office could be with storm and spotter data
 on the same screen!

>
 > Where can the RCM data be obtained, and what software is needed to display
 > it? I'd love to have a program that can display the radar conditions with
 > more detail. The Weatheration banner talks about optional (\$) services that
 > include a better radar displays - but the user needs their terminal program
 > to display it.
 >

I'm not sure where one gets the data yet. Maybe ask the local NWS
 office? I think it will become available in the same way one
 receives the SD data. As far as the program, I'm doing some
 looking around for it but have nothing yet. If I get something
 I'll let you know.

Craig

 Craig Setzer

Internet: csetzer@rmii.com
 HAM Radio: KB0MXQ

--You'll find me in the bear's cage...

190. Re: [APRSSIG:742] Re: Doppler radar data & APRS (fwd)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
 Date: Tue, 11 Apr 1995 00:15:48 -0500 (EST)
 To: aprssig@tapr.org
 Message-ID: <Pine.LNX.3.91.950410235605.397A-100000@penny.n2wx.ampr.org>
 Rendered body type: text/plain

On Mon, 10 Apr 1995, Craig Setzer wrote:

> > If I'm not mistaken, doppler wx radar data are proprietary. I think WSI
 > > (?) controls the dissemination.
 > >
 > > Someone correct me if I'm wrong.
 >
 >
 > And Jack Anderson responded with:
 >
 > >
 > > There is ASCII radar data from the NWS, the SD data sets, available from

[gobs of RAREPs snipped]

> > NHK 1925 AREA 6RW/NEW 315/105 280/150 30W C2650 MT 292/115
 > > AREA 1RW/- 6/95 123/125 237/20 C2745 MT 140 AT 9/50 CVRG
 > > DCRG RPDLY

> > ^IL1 JM1 LH11 L01001 MH11 NH1 OH1
 > >
 >
 > The above SD is also called a ROB (Radar OBservation). The line
 > beginning with ^IL1 is the MDR or manually digitized radar portion
 > of the ROB. It is from the MDR that many plotting programs get their
 > data. The letters correspond to grid boxes with MM

> being the grid box at the radar. The boxes are pretty big, I think

I'm used to calling the RAREP portion Craig calls an MDR the output of the PPI (Plan position indicator). You can talk the responsible NWS office out of a copy of the grid box overlay they use to generate PPI data. As Craig indicates, they boxes are quite large. So large as to perhaps be of questionable utility...

> they are about 10 miles square and are biased to the highest
> reflectivity found in the box, so that you only get a very
> rough idea of precip areas but not individual cells.
> For APRS use on a local level the MDR data may not contain
> enough detail for most users and certainly not enough for
> Skywarn/ARES/RACES/EC uses.
>

Exactly. Also the newly commissioned doppler facilities generate output with much greater resolution than the standard 6 VIP levels we're used to seeing on the crummy old 50's era systems. But neither this enhanced data nor the finer resolution available from the commercial outlets are to be found in freebie SD reports.

BOB: Does APRS decode TAF data?

Howie

--

Howard Goldstein
N2WX

hg@n2wx.ampr.org
<http://www.tapr.org/~n2wx/>

191. Re: [APRSSIG:739] Re: APRS distribution

From: Emmet2@aol.com
Date: Tue, 11 Apr 1995 00:59:00 -0400
To: aprssig@tapr.org
Message-ID: <950411005856_79016221@aol.com>
Rendered body type: text/plain

<<

Just FYI, 1:109/239 gets the updates, usually same day as release.

>>

Are they freq'able? Can we come up with a system of being able to freq for the most recent version? This way you can post when it is available and we could freq you using the special 'word' that tells it to send only the newest version.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

192. Re: [APRSSIG:726] minimal aprs, was Re:HP96LX Palmtop

From: Emmet2@aol.com
Date: Tue, 11 Apr 1995 02:50:18 -0400
To: aprssig@tapr.org
Message-ID: <950411005852_79016154@aol.com>
Rendered body type: text/plain

Here, here! I agree. That was my comment from the beginning. That would also be of use for a mobile unit being tracked, where you just wanted enough to process GPS and transmit/log.

I do believe, correct me if I'm wrong Keith, that you can significantly lower the RAM allocated to MacAPRS, however, you will also diminish its ability to open multiple windows (which may be not be such a setback for the cases we mentioned). Can we get a special 'stripped down' version, Keith, that is streamlined for those type operations (limit it to one window, no special data types, etc).

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

193. Re: [APRSSIG:732] Re: 20m, anyone?

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)
Date: Tue, 11 Apr 95 9:00:16 MET DST
To: aprssig@tapr.org
Message-ID: <9504110700.AA05929@sunrise.e-technik.uni-ulm.de>
Rendered body type: text/plain

>
> On Mon, 10 Apr 1995, Hermann Schumacher wrote:
>
> > From what I heard, the 20m frequency is 14.958 MHz USB if you use the
> > AEA tones.
> >
> > 73,
> > Hermann
> > DF2DR
>
> I think not, Hermann. That's outside the amateur band. Perhaps 14.0958?
> I'll check tonight when I get home.
>
> Jess
>
>

Oops, of course 14.0958. Too much stress at the office, I apologize ...
DF2DR

--
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de
Dept. of Electron Devices and Circuits |
University of Ulm, | office: +49 731 502-6152
D-89069 Ulm, Germany | FAX: +49 731 502-6155

Help fight leukemia - we're closing in on a killer!

194. MFJ-8621 DATA RADIO

From: BillWB6LPG@aol.com
Date: Tue, 11 Apr 1995 03:16:34 -0400
To: aprssig@tapr.org
Message-ID: <950411025235_79095973@aol.com>
Rendered body type: text/plain

To: aprssig@tapr.org
From: billwb6lpg@aol.com

Info, re MFJ-8621 Data Radio. Ordered on 12/12/94, advise of about an 8 week delay in shipping, now 17weeks and still in non receipt. Called week ago, advised 4 Ham's Beta testing, but no reports rcvd as yet. 50 in warehouse ready to be shipped if beta test ok. No required (Fed Law) 30 day notice of non-dlvry rcvd fm MFJ, normally orders also cancelled after 60 days of non receipt. (Fed Law). Advised all orders still on file, and will be delivered when units tested ready to ship. 2 years ago, waited 11 weeks for a delivery from MFJ. Is'nt it time we Hams write and raise a little cane with MFJ, this is kinda ridiculous. They advertise long before, tested and ready to ship they must send to China new orders and returned by slow boat from same. Mighty Fine Junk, and we are suckers to put up with them.. 73's & Enjoy, Bill WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM

195. Re: [APRSSIG:751] MFJ-8621 DATA RADIO

From: Kent Larson <klarson@access.digex.net>
Date: Tue, 11 Apr 1995 06:54:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950411065244.27483A-100000@access3.digex.net>
Rendered body type: text/plain

Thanks for the info Bill. I have been wanting to see what one of these looked like before I buy. I have heard that MFJ is notorious for not delivering, especially new products.

Kent

On Tue, 11 Apr 1995 BillWB6LPG@aol.com wrote:

> To: aprssig@tapr.org
> From: billwb6lpg@aol.com
>
> Info, re MFJ-8621 Data Radio. Ordered on 12/12/94, advise of about an 8
> week delay in shipping, now 17weeks and still in non receipt. Called week
> ago, advised 4 Ham's Beta testing, but no reports rcvd as yet. 50 in

> warehouse
> ready to be shipped if beta test ok. No required (Fed Law) 30 day notice of
> non-dlvry rcvd fm MFJ, normally orders also cancelled after 60 days of non
> receipt. (Fed Law). Advised all orders still on file, and will be delivered
> when units tested ready to ship. 2 years ago, waited 11 weeks for a delivery
> from MFJ. Is'nt it time we Hams write and raise a little cane with MFJ, this
> is kinda ridiculous. They advertise long before, tested and ready to ship
> they must send to China new orders and returned by slow boat from same.
> Mighty Fine Junk, and we are suckers to put up with them..
> 73's & Enjoy, Bill WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
>
>

196. Re: [APRSSIG:751] MFJ-8621 DATA RADIO

From: mwalker@interlog.com (Mike Walker)
Date: Tue, 11 Apr 95 07:51:24 EDT
To: aprssig@tapr.org
Message-ID: <199504111154.HAA16356@gold.interlog.com>
Rendered body type: text/plain

On Tue, 11 Apr 1995 02:34:24 -0500 you wrote:

>To: aprssig@tapr.org
>From: billwb6lpg@aol.com
>
>Info, re MFJ-8621 Data Radio. Ordered on 12/12/94, advise of about an 8
>week delay in shipping, now 17weeks and still in non receipt. Called week
>ago, advised 4 Ham's Beta testing, but no reports rcvd as yet. 50 in
>warehouse
>ready to be shipped if beta test ok. No required (Fed Law) 30 day notice of
>non-dlvry rcvd fm MFJ, normally orders also cancelled after 60 days of non
>receipt. (Fed Law). Advised all orders still on file, and will be delivered
>when units tested ready to ship. 2 years ago, waited 11 weeks for a delivery
>from MFJ. Is'nt it time we Hams write and raise a little cane with MFJ, this
>is kinda ridiculous. They advertise long before, tested and ready to ship
>they must send to China new orders and returned by slow boat from same.
> Mighty Fine Junk, and we are suckers to put up with them..
>73's & Enjoy, Bill WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
>
>

I think ham are now seeing how MFJ works...

I manage a very large ham radio store in Canada, and we have to fight tooth and nail to get stock. It is not uncommon to wait 6 months for a specific product. It makes if very frustrating to keep our customers satisfied. This is just not a one time thing. It happens all the time.

The scarry part is that MFJ have now acquired Mirage Amplifiers.

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

197. Re: [APRSSIG:748] Re: APRS distribution

From: janderson@ram.net (Jack Anderson)
Date: Tue, 11 Apr 95 08:51:53 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0aa6@ram.net>
Rendered body type: text/plain

>Just FYI, 1:109/239 gets the updates, usually same day as release.
>>>
>
>Are they freq'able? Can we come up with a system of being able to freq for
>the most recent version? This way you can post when it is available and we
>could freq you using the special 'word' that tells it to send only the newest
>t
>version.

They are freqable using the full name of the distro file. I haven't set up a magic name yet but I will look into it.

Jack

198. Vers 6.8a and /raw*

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 11 Apr 1995 09:46:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950411094045.2986B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well, I finally figured out why some folks are seeing the /raw* without the rest of the lat/long posit. And of course it is teh result of the efforts I have been making on cleaning up the HSP mode. In 6.8 i grab the first GGA, GLL, RMC that comes along, and lock out any more until the HSP is complete. The problem is that I didnt lock out enough! The GLL that is "locked out" after a GGA has already been received is still generating a POSIT, but without a lat/long! Trivial to fix.. Will be in version 6.8a by Monday evening.... sorry...

I recommend that everyone halt further distro of 6.8 in areas where there are GPS stand-alone-trackers on the air.

199. Re: [APRSSIG:751] MFJ-8621 DATA RADIO

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 11 Apr 1995 10:02:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950411095428.2986D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 11 Apr 1995 someone wrote:

> Info, re MFJ-8621 Data Radio. Ordered on 12/12/94, advise of about an 8
> week delay in shipping, now 17weeks and still in non receipt. Called week
> ...
> receipt. (Fed Law). Advised all orders still on file, and will be
> ...
> Is'nt it time we Hams write and raise a little cane with MFJ,...?

Yes, but its the only game in town? Can anyone find a \$119 5 watt 2m radio anywhere else? I would buy it anywhere I could find it! hi hi
They have been upfront on the phone and said there is a technical problem and they are trying to fix it. I'd rather finally get a good radio than one with bugs (don't laugh you guys! software is different... hi hi)

And the pre-advertising is frustrating, but at least we know its coming... Id rather know a cheapie is about to be released before I spend another \$350 for a 2m data radio..

200. Re: [APRSSIG:756] Re: MFJ-8621 DATA RADIO

From: Kent Larson <klarson@access.digex.net>
Date: Tue, 11 Apr 1995 10:24:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950411102414.10956A-100000@access3.digex.net>
Rendered body type: text/plain

Good points - but I sure would like to see one.

Kent

On Tue, 11 Apr 1995, Robert Bruninga wrote:

>
> On Tue, 11 Apr 1995 someone wrote:
>
> > Info, re MFJ-8621 Data Radio. Ordered on 12/12/94, advise of about an 8
> > week delay in shipping, now 17weeks and still in non receipt. Called week
> > ...
> > receipt. (Fed Law). Advised all orders still on file, and will be
> > ...
> > Is'nt it time we Hams write and raise a little cane with MFJ,...?
>
> Yes, but its the only game in town? Can anyone find a \$119 5 watt 2m
> radio anywhere else? I would buy it anywhere I could find it! hi hi
> They have been upfront on the phone and said there
> is a technical problem and they are trying to fix it. I'd rather finally
> get a good radio than one with bugs (don't laugh you guys! software is
> different... hi hi)
>
> And the pre-advertising is frustrating, but at least we know its
> coming... Id rather know a cheapie is about to be released before I
> spend another \$350 for a 2m data radio..

>

201. Boston Marathon Maps

From: kinahan@ws007-fddi.bytex.network.com (Tom Kinahan @ws007)
Date: Tue, 11 Apr 95 10:37:52 EDT
To: aprssig@tapr.org
Message-ID: <9504111437.AA24097@ws007-fddi>
Rendered body type: text/plain

In preparation for APRS work at the Boston Marathon on April 17th, I've uploaded maps of the marathon course and some of the towns it passes through to: ftp.tapr.org in /tapr/SIG/aprssi/upload called baarun1.zip and another file which has an incomplete overlay of marathon aid locations: baa.bk.

When you unzip it, you'll need to copy maplist.ba to your aprs directory and change your maplist to maplist.ba (F-C-BA).

These maps come to us courtesy of W1KRU.

- Tom Kinahan N1CPE
kinahan@bytex.network.com

202. Re: [APRSSIG:756] Re: MFJ-8621 DATA RADIO

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Tue, 11 Apr 1995 08:58:41 -0700
To: aprssig@tapr.org
Message-ID: <199504111558.IAA06300@archimedes.vislab.navy.mil>
Rendered body type: text/plain

[some discussion deleted...]

>> Is'nt it time we Hams write and raise a little cane with MFJ,...?
>

>Yes, but its the only game in town? Can anyone find a \$119 5 watt 2m
>radio anywhere else? I would buy it anywhere I could find it! hi hi

Isn't this the same group that pieces together GPS boards to TNC's? I'd figure most of us *could* piece together a radio in that price range rather easily! Try swapmeets, old HT's, old commercial rigs, etc. I see HTX-202's for less than \$200 on my BBS, and would think they'd perform much better than anything MFJ could produce. Of course, I don't have a high opinion of MFJ's equipment...

>They have been upfront on the phone and said there
>is a technical problem and they are trying to fix it. I'd rather finally
>get a good radio than one with bugs (don't laugh you guys! software is
>different... hi hi)

I'd rather get a good radio to begin with...

There is a lot of decent 2m radio gear out there, from lightweight RF deck boards that you throw into your own chasis to boat-anchor Micors. Maybe MFJ's radios will fit in a niche in the market, but they're not the only "only game in town", but then again, you may not find it "off the shelf"...

73, jan
kc6uth

Jan Anthony Barglowski	Phone: (619) 927-1057
Computer Dude	Internet: jan@archimedes.nwc.navy.mil
Visualization Lab	Packet: SYSOP@WA6YBN.#SOCA.CA.US.NA
Naval Air Warfare Center	kc6uth@kc6uth.ampr.org
-Weapons Division	[44.17.2.6]

203. Re: [APRSSIG:759] Re: MFJ-8621 DATA RADIO

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Tue, 11 Apr 1995 12:48:06 -0500
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <9504111646.AA05056@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 11:05 AM 4/11/95 -0500, Jan A. Barglowski wrote:

>[some discussion deleted...]

>

>>> Is'nt it time we Hams write and raise a little cane with MFJ,...?
>>

>>Yes, but its the only game in town? Can anyone find a \$119 5 watt 2m
>>radio anywhere else? I would buy it anywhere I could find it! hi hi

>
>....HTX-202's for less than \$200 on my BBS, and would think they'd perform much
>better than anything MFJ could produce. Of course, I don't have a high
>opinion of MFJ's equipment...
>

as was pointed yesterday, you actually see brand new HTX-202's for less than
\$200 in every radio shack store!

Seems to me a very good deal compared with all the mfj's story. The guys in
radio shack stores certainly know nothing about ham radio, but at least the
item is available everywhere from east to west coast.

By the way, I have the mfj 5/8 2m mobile antenna (magnet mount), and this
one performs well. The magnet looks quite small, but I never had any
problem, including at 75 mph (no, not on the expressway, I rented an
racetrack especially for the test, hi, hi).
For 25\$ it's exactly what we need to make an easily installed mobile station.

Concerning these hand helds I have a question: does someone know where I can
find the double jack connector used for the speaker and mike connection? I'm
tired of wiring two jacks at the end of one cable (and this is not reliable).

Bernard, KB2TGH

204. Re: [APRSSIG:760] Re: MFJ-8621 DATA RADIO

From: janderson@ram.net (Jack Anderson)
Date: Tue, 11 Apr 95 13:54:58 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0aa9@ram.net>
Rendered body type: text/plain

>Concerning these hand helds I have a question: does someone know where I can
>find the double jack connector used for the speaker and mike connection? I'm
>tired of wiring two jacks at the end of one cable (and this is not reliable)

MFJ makes 'em already wired for your TNC and radio, about \$15. Most ham
stores stock them.

Jack

205. Re: [APRSSIG:753] Re: MFJ-8621 ;)

From: mmunster@qualcomm.com (Marvin Munster x5388)
Date: Tue, 11 Apr 1995 11:38:49 -0800
To: aprssig@tapr.org
Message-ID: <abb08a2a2d0210047694@[129.46.12.181]>
Rendered body type: text/plain

You guys just don't understand. MFJ was bought out by MicroSoft and has
imposed the marketing strategy of the Windows 95 product on the company.
This says that they must announce a product as "ALMOST complete, and will
ship soon". This announcement is made the day it goes into the lab for
development. This prevents you from going out and buying what is already
available. ;)
(this is still April isn't it?)

Marvin - WB6PKK

>On Tue, 11 Apr 1995 02:34:24 -0500 you wrote:

>
>>To: aprssig@tapr.org
>>From: billwb6lpg@aol.com
>>
>>Info, re MFJ-8621 Data Radio. Ordered on 12/12/94, advise of about an 8
>>week delay in shipping, now 17 weeks and still in non receipt. Called week
>>ago, advised 4 Ham's Beta testing, but no reports rcvd as yet. 50 in
>>warehouse
>>ready to be shipped if beta test ok. No required (Fed Law) 30 day notice of
>>non-dlvry rcvd fm MFJ, normally orders also cancelled after 60 days of non
>>receipt. (Fed Law). Advised all orders still on file, and will be delivered
>>when units tested ready to ship. 2 years ago, waited 11 weeks for a delivery
>>from MFJ. Isn't it time we Hams write and raise a little cane with MFJ, this
>>is kinda ridiculous. They advertise long before, tested and ready to ship
>>they must send to China new orders and returned by slow boat from same.
>> Mighty Fine Junk, and we are suckers to put up with them..
>>73's & Enjoy, Bill WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
>>
>>

>
>I think ham are now seeing how MFJ works...
>
>I manage a very large ham radio store in Canada, and we have to fight
>tooth and nail to get stock. It is not uncommon to wait 6 months for
>a specific product. It makes if very frustrating to keep our
>customers satisfied. This is just not a one time thing. It happens
>all the time.
>
>The scary part is that MFJ have now acquired Mirage Amplifiers.
>
>
>
>Mike Walker mwalker@interlog.com
>127 High St. W. rf: va3mw@va3bbs
>Mississauga, ON
>L5H 1K4

206. BETA test of 6.8a

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 11 Apr 1995 17:38:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950411173612.9843A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well shonuff, 68 may crash on some VTG's and you may be seeing /raw*
without any lat/long. I think I found it for sure this time. Try
getting BETAX.zip on 410-280-2503 if you are having problems with GPS,
HSP or tracking stand alone trackers. IHope this does it....

If its ok, it also provides fulll FROM callsigns on the BULLETIN and the
TRAFFIC pages so you know who is sending what, without ambiguity...

207. Wow! good reaction....

From: paul@paccomm.com
Date: Tue, 11 Apr 95 09:03:59 UTC
To: aprssig@tapr.org
Message-ID: <2567@paccomm.com>
Rendered body type: text/plain

Well, it's good to see the amateur spirit alive and well and following
a lead so quickly and decisively! I think we should now consolidate
all the facts about Doppler radar, the data providers and legalities
of dissemination to the masses.....

On the propriety nature (if any). If the data were taken from a
legitimate source, passed through APRS and put into a (better) APRS
over-the-air format, then we are NOT using their data format, we're
just gathering it and putting it out as OUR data. Does everybody
agree that that gets around any difficulties ??? Or I have I not
realised just how stupid corporate law is in USA yet?(!)

I think we should now await Bob's reaction, because he's 99.9999%
likely to be the one to code it.

A word of caution: I think this could be extremely powerful and useful
and we should take all efforts to do the data formatting RIGHT.

The 3D mode in APRS could be especially useful here if we can get
the right altitude return data.

Finally, we might not have to rely on either (a) paying for cable
(b) trusting the idiots at the local TV station (especially Ch10
Tampa!!!!!!) for reliable weather data.....

Paul

Paul Evans, W4/G4BKI paul@paccomm.com
+1 (813) 874-2980 Fax:+1 (813) 872-8696 BBS: +1 (813) 874-3078 (V.34)
The views expressed in this message are not necessarily those of PacComm.
Vice President of Florida CW Contest Group
Runners-up in NAQP CW at our FIRST attempt
PacComm Packet Radio Systems, Inc., 4413 N. Hesperides St., Tampa, FL 33614-7618

208. Re: [APRSSIG:763] BETA test of 6.8a

From: Cap Pennell <cap@cruzio.com>
Date: Tue, 11 Apr 95 18:51:11 PDT
To: aprssig@tapr.org
Message-ID: <199504120152.SAA23586@mail3.netcom.com>
Rendered body type: text/plain

Robert Bruninga writes:

> Well shonuff, 68 may crash on some VTG's and you may be seeing /raw*
> without any lat/long. I think I found it for sure this time. Try

> getting BETAX.zip on 410-280-2503 if you are having problems with GPS,
> HSP or tracking stand alone trackers. IHope this does it....
> .-
I hope so too. In 68 I was able to see \$GPRMC (_or_ \$GPGGG if I hit Alt-S,G,G).
I saw RAW* for the other strings. I hope to see \$GPGGG and \$GPVTG together
from stand-alone trackers to get position, altitude, course, and velocity.
Keep up the good work. 73.

--
+-----+
Cap Pennell email: cap@cruzio.com
Santa Cruz, CA packet radio: ke6afe@kg6ee.#nocal.ca.usa.noam
Lat:36degs,58mins,55secsN. Long:122degs,00mins,53secsW.
+-----+

209. Re: [APRSSIG:751] MFJ-8621 DATA RADIO

From: RRR055@delphi.com
Date: Tue, 11 Apr 1995 22:05:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01HP884B2LUQ9208FK@delphi.com>
Rendered body type: text/plain

Yep, Bill, that is exactly why I bought my Kam+! I was going to buy
MFJ but couldn't get delivery, so went with Kam and HAVE NEVER REGRETED
MY DECISION!
73's de N7RBP

210. RE: [APRSSIG:739] Re: APRS distribution

From: dougs@ccnet.com (Doug Smith)
Date: Mon, 10 Apr 95 19:33:53 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950410193602.dougs@ccnet.com>
Rendered body type: text/plain

>>Would you consider including the FidoNet node numbers of the BBS's that
>>distribute new releases of APRS in the doc's somewhere? Also, you might

I try to be on top of latest versions here since I'm also a
registered APRS user and interest is high in my area. Fido
161/911 510-827-5714. I don't have a log of file space so not
all of the various distribution files are available here.

ORIGIN: Doug Smith dougs@ccnet.com
Pleasant Hill, CA http://www.ccnet.com/~dougs
WA6GON Packet/APRS/RTTY/SWL
Sysop Douglas.Smith@f911.n161.z1.fidonet.org

211. Magic name for APRS

From: janderson@ram.net (Jack Anderson)
Date: Tue, 11 Apr 95 23:04:13 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0ab5@ram.net>
Rendered body type: text/plain

For Fido mailers that want to FREQ the latest version of APRS, I've set up
the magic name of APRS at 1:109/239. This should deliver the current
version. The latest version of APRS is usually uploaded to my system the
same day of release, or next day after (right, Bernie?).

Try to use the full distribution name if possible, since I've set up a
wildcard (APRS*.ZIP) for the magic name, and it's possible that you may catch
me at a time when the newest version has just been uploaded, and I haven't
had a chance to delete the old version. In this case, the system will try to
send the newer version first, so at least you'll have a chance to abort the
FREQ if you see an older version coming your way after a successful transfer
of the latest copy.

Jack

212. Magic name for APRS - additional

From: janderson@ram.net (Jack Anderson)
Date: Tue, 11 Apr 95 23:06:20 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0ab6@ram.net>
Rendered body type: text/plain

For Fido mailers that want to FREQ the latest version of APRS, I've set up the magic name of APRS at 1:109/239. This should deliver the current version. The latest version of APRS is usually uploaded to my system the same day of release, or next day after (right, Bernie?).

Try to use the full distribution name if possible, since I've set up a wildcard (APRS*.ZIP) for the magic name, and it's possible that you may catch me at a time when the newest version has just been uploaded, and I haven't had a chance to delete the old version. In this case, the system will try to send the newer version first, so at least you'll have a chance to abort the FREQ if you see an older version coming your way after a successful transfer of the latest copy.

Also, I have a pretty good library of APRS utilities, along with other ham related stuff. FREQ the magic name FILELIST for a complete listing of freqable files.

Jack

213. Re: [APRSSIG:763] BETA test o...

From: W2H0B@aol.com
Date: Wed, 12 Apr 1995 06:08:27 -0400
To: aprssig@tapr.org
Message-ID: <950412060638_80411390@aol.com>
Rendered body type: text/plain

I like the full callsigns on the B and T pages... takes all the guesswork out of identifying who's who! Thanks.

214. subscribe

From: Jon_Dickason@wb.xerox.com
Date: Wed, 12 Apr 1995 05:32:27 PDT
To: aprssig@tapr.org
Message-ID: <"<1AD38B2F81CC2776>1AD38B2F81CC2776@x-wb-0129-msl.xerox"@-SMF->
Rendered body type: text/plain

subscribe

215. Recommended GPS unit?

From: Bob Smith <rsmith@internetMCI.COM>
Date: Wed, 12 Apr 1995 12:31:26 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <01HP92FFRLSI95MS2Q@MAILSRV1.PCY.MCI.NET>
Rendered body type: text/plain

-- [From: Bob Smith * EMC.Ver #b.2.5.02] --

As it says - want wat of these suckers for APRS good times - which is the current favourite of the group.

Thanks
Bob Smith,
N3FTU.

216. Re: HP96LX Palmtop

From: Bob Smith <rsmith@internetMCI.COM>
Date: Wed, 12 Apr 1995 12:31:31 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <01HP92FJEXTU95MS2S@MAILSRV1.PCY.MCI.NET>
Rendered body type: text/plain

-- [From: Bob Smith * EMC.Ver #b.2.5.02] --

Use a 100LX with a KPC3 to a TH-78. Just got APRS running on a 100LX but I had to disable the built in applications. No way will work on a 95LX - had one before the 100LX and know it pretty well - you will be able to do straight packet and act as an APRS node I suppose if you know the right beacon string.

ALL:

HOW DO WE INTERFACE GPS UNITS WITH THESE SYSTEMS????

WHICH ONES DO YOU SUGGEST??

You wrote:

```
>
>The following is a packet message from a local Ham that has a very good
idea
>as to miniaturizing his mobile GPS/Packet equipment. Anyone out there
have
>any ideas?
>
>73 de Mike KE6EGK
>AOL MikeKE6EGK
>Internet MikeKE6EGK@aol.com
>-----
>-----
>-----
>
>
>>From      : AC6JA
>To         : APRS@ALLUS
>Type/status : BH
>Date/time  : 30-Mar 21:50
>BID (MID)  : 14139_KA6EYH
>Message #  : 79675
>Title      : APRS ON PALMTOP?
>
>HI THERE.
>
>NAME HERE IS MIKE AND I LIVE IN FOSTER CITY, CALIFORNIA. I WOULD BE
>INTERESTED IN HEARING FROM ANYONE WHO HAS SUCCESSFULLY USED THE APRS
PROGRAM
>ON A PALMTOP COMPUTER. PRESENTLY I HAVE A HEWLETT PACKARD HP95LX AND A
KAN-
>TRONICS KPC-3 VERSION 6.0 AND A RADIO SHACK HTX-202. I HAVE BEEN ABLE
TO USE
>THIS SETUP FOR REGULAR PACKET OPERATIONS, BUT I WOULD BE INTERESTED IF
THE
>APRS PROGRAM WOULD BE CAPABLE OF RUNNING ON THE PALMTOP, MAINLY DUE TO
THE
>SMALL SIZE OF THE SCREEN (40 X 16) AS OPPOSED TO STANDARD 80 X 25. ANY
HELP
>WOULD BE GREATLY APPRECIATED.
>THANKS!
>
>--- End of message #79675 to APRS from AC6JA ---
```

We're running the current version on the HP200LX with no problems! We simply have the maps we need and the SYSTEM files, and the few from the root and it works great!

We've been trying to work the digital modes into public service events...when everyone sees this neat stuff, heads turn! Dan

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

----- FORWARD, End of original message -----

217. Getting files

```
From: Dick Mead <mead@skat.usc.edu>
Date: Wed, 12 Apr 95 10:25:36 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.797707536.mead@hamal.usc.edu>
Rendered body type: text/plain
```

I run a small bbs in SoCal, not associated with anyone else nor networked but I try to keep the currently available APRS and MacAPRS releases available. As soon as I see an ftp site, I usually grab and put up the latest. Just another source, in case your favorite line is busy and you can't squeeze in...

Pasadena Znode 36
(818) 799-1632
up to 14k4
24 hrs
free

218. FTP sites.

From: MikeKE6EGK@aol.com
Date: Wed, 12 Apr 1995 14:49:46 -0400
To: aprssig@tapr.org
Message-ID: <950412144820_80811565@aol.com>
Rendered body type: text/plain

Hello to all on the SIG. I am fairly new the internet, and new to the SIG. I have been using the FTP.tapr.org FTP site for downloading the latest versions of APRS. This site does not appear to carry the Beta versions when they are released, and I would like to see them before the newly released version come out. (it is fun to run Betas) Are there any FTP sites that do carry the Betas, and where might they be found? Any help would be highly appreciated.

TNX

73 de Mike
MikeKE6EGK@aol.com
KE6EGK@KA6JLT.#NOCA.CA.USA.NOAM

219. Re: [APRSSIG:774] Getting files

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 12 Apr 1995 13:51:36 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504121851.NAA26960@logrus.cs.tamu.edu>
Rendered body type: text/plain

Plus or minus seeing info that a release is pretty stable, I grab it and post it on w5ac.tamu.edu. It's an anonymous site: Your e-mail address for a password.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

220. Re: [APRSSIG:734] Re: Where's everyone?

From: Emmet2@aol.com
Date: Wed, 12 Apr 1995 15:27:33 -0400
To: aprssig@tapr.org
Cc: HQARRL1@aol.com
Message-ID: <950412152731_80851094@aol.com>
Rendered body type: text/plain

<<

Folks this points out the need to chose carefully your local APRS frequency and work with the local coordinating body. I would hate for APRS to get the reputation that dx-cluster has earned by doing their own thing without regard for their neighbors.

>>

This is my point. Again, I know this isn't necessarily the place for this, but it's got to start somewhere. I think we need to DEMAND that the ARRL work towards forming a NATIONAL coordinating system. Regional, State, or Local ones won't work, RF knows no geographical boundaries. We need this especially now with our exponential growth. I am tired of hearing about how much of a mess this stuff is in, especially in CT with absolutely no coordinating body whatsoever.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
= Emmet2 (America Online) = emmet2@aol.com (internet)
= N1MIE@N1OKK.CT.USA (packet) = 1:320/301 (fidonet)

221. APRS v6.8A - Available In Toronto

From: john.kerr@projectx.com (SYSOP)
Date: Wed, 12 Apr 95 17:14:00 -5
To: aprssig@tapr.org
Message-ID: <8A7440A.000100196E.uuout@projectx.com>
Rendered body type: text/plain

The update to v6.8a of APRS is available for download to
all those interested in the Toronto, Ontario area on

Project X in Brampton at (905) 792-7890..

John VE3SVE

222. Re: [APRSSIG:492] Re: U-II Av...

From: ChicagoWx@aol.com
Date: Wed, 12 Apr 1995 20:30:05 -0400
To: aprssig@tapr.org
Message-ID: <950412202136_81183549@aol.com>
Rendered body type: text/plain

The U-II is available for \$179 plus \$20 for the RS-232 cable, but that can be wired yourself for maybe \$5 to \$8. I payed just over 207 with shipping for my U-II and it was up and running on APRS until I found my U-II is defective. Another one is in the mail.

223. AHAAT/Antenna Height Above Average Terrain

From: dougs@ccnet.com (Doug Smith)
Date: Wed, 12 Apr 95 19:54:42 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950412195735.dougs@ccnet.com>
Rendered body type: text/plain

What formula are we using these days for Antenna Height Above Average Terrain for APRS purposes? There's a formula in Part 73 somewhere as I recall. If I can locate a map with elevations what can I use for a formula?

I'm 20 feet above sea level, and the antenna is 30 feet above that but I'm surrounded by hills on three sides.

Oh and, how important to APRS DF is the AHAAT setting?

ORIGIN: Doug Smith dougs@ccnet.com
Pleasant Hill, CA <http://www.ccnet.com/~dougs>
WA6GON Packet/APRS/RTTY/SWL
Sysop Douglas.Smith@f911.n161.z1.fidonet.org

224. NWS SURFACE ANALYS. ON INTERNET

From: VMCX65C@prodigy.com (MISS ALEXANDRA PALM)
Date: Wed, 12 Apr 1995 21:56:51 EDT
To: APRSSIG@TAPR.ORG
Message-ID: <013.05435958.VMCX65C@prodigy.com>
Rendered body type: text/plain

Dear all,
I am looking for on the internet where I can get the SA reports for a sepcific state or USA, so I can inport this into APRS using the GETNWSDATA.

Ron
Chicaowx@aol.com

225. ID: Grid sq.

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 13 Apr 1995 01:53:29 -0500
To: aprssig@tapr.org
Message-ID: <v01510101abb25c77a2c8@[199.1.11.115]>
Rendered body type: text/plain

I am now getting several APRS stations at my Dallas location via WA0D HF to UHF link. But about hafl of the calls on my station list don't have LON-LAT or a grid square in the packet.

Please everyone add locations. The stations will not get to the map without it, also very few are using the Power/ANT height.

So far I have seen 3 Dallas area stations

WA0D
K5DTN New users aprs68
KC5EJK New user aprs68 and MacAPRS 1.4.2

226. Re: [APRSSIG:759] Re: MFJ-8621 DATA RADIO

From: gwyn@paccomm.com (Gwyn Reedy, WIBEL)
Date: Wed, 12 Apr 95 12:29:17 UTC
To: aprssig@tapr.org
Message-ID: <2616@paccomm.com>
Rendered body type: text/plain

>Isn't this the same group that pieces together GPS boards to TNC's?

As far as I know, PacComm is the only amateur radio manufacturer offering ham versions of an AVL terminal - a GPS pieced together with a TNC. We are not MFJ and are proud of our separate identity and reputation.

Regarding the ease of finding low cost 9600 radios - I'd refer you to the latest QST with an article evaluating some of the 'made for 9600' radios which turn out not so wonderful. Casts some doubt on the ease of taking a low cost HT and modifying it for 9600...

BTW, I've tried one of the MFJ radios and it performs well. That might be worth waiting for.

Gwyn Reedy, WIBEL gwyn@paccomm.com WIBEL@amsat.org
+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

227. Re: [APRSSIG:771] subscribe

From: BHVP28A@prodigy.com (MR JEFFREY L MOTHERSBAUGH)
Date: Thu, 13 Apr 1995 08:17:59 EDT
To: aprssig@tapr.org
Message-ID: <013.05448551.BHVP28A@prodigy.com>
Rendered body type: text/plain

Don't subscribe to this unless you want to get it forever. I am caught in this nightmare of a sig and can't get out. Can anyone tell me how to unsubscribe? I am desperate!

Jeff

228. Re: [APRSSIG-784] Re- subscr

From: "Dana Rodakis" <dgra@qmgate.eci-esyst.com>
Date: 13 Apr 1995 08:47:53 -0400
To: aprssig@tapr.org
Message-ID: <n1414359379.82429@qmgate>
Rendered body type: text/plain

Reply to: RE>[APRSSIG:784] Re: subscribe

If you kept your subscription acknowledgement then you'd know how. Send your request to the list server 'listproc@tapr.org' and NOT the list!

Date: 4/13/95 8:29 AM
To: Dana Rodakis
From: aprssig@tapr.org
Don't subscribe to this unless you want to get it forever. I am caught in this nightmare of a sig and can't get out. Can anyone tell me how to unsubscribe? I am desperate!

229. need help with Garmin 45 and APRS 6.6

From: Jon_Dickason@wb.xerox.com
Date: Thu, 13 Apr 1995 05:52:03 PDT
To: aprssig@tapr.org
Message-ID: <"<F02B8D2F81CC2776>F02B8D2F81CC2776@x-wb-0129-ms1.xerox"@-SMF->
Rendered body type: text/plain

Hi and thanks for the five different instructions for subscribing. One of them worked and here I am. I tried using my Garmin 45 with APRS 6.6 last night and kept getting "bad nmea" in the upper right corner. I tried nmea-0183 version 1.5 and 2.0 from the GPS. I receive \$GP.... data OK on the comm screen.

Also, I found the USGS map vector data on the net but I seem to get the feeling from the APRS docs that the 2M data is what we have already for Rochester, NY, just main highways, and the 100k data is too detailed for mapping the whole county (I may have these reversed). Can I use the 250k data? or any other suggestion for using the map data?

Please forgive my mistakes here. I am used to reading Internet newsgroups so I can get a feel for where the FAQs are and usually see an answer to my question without having to request one specifically.

Jon_Dickason@wb.xerox.com
N2JAC@WB2PSI

230. Re: [APRSSIG:647] Chicago are...

From: Chicagowx@aol.com
Date: Thu, 13 Apr 1995 09:05:44 -0400
To: aprssig@tapr.org
Message-ID: <950413090542_81762685@aol.com>
Rendered body type: text/plain

There is about 15 stations on 145.79 (4 Wx Stations, 2 Wide Digi, a few QTH's) See ya there
Ron
N9QGs

231. Re: [APRSSIG:784] Re: subscribe

From: miles@mail.utexas.edu (Miles Abernathy)
Date: Thu, 13 Apr 1995 08:16:52 -0500
To: aprssig@tapr.org
Message-ID: <v01520b00abb28e3e7629@[128.83.159.101]>
Rendered body type: text/plain

>Don't subscribe to this unless you want to get it forever. I am caught in
>this nightmare of a sig and can't get out. Can anyone tell me how to
>unsubscribe? I am desperate!

Hi Jeff!
Perhaps the HELP doc tells how??

>For information on this service and how to use it, send the following
>request in the body of a mail message to listproc@tapr.org:
> HELP
>All requests should be addressed to listproc@tapr.org.

Good luck!

Miles Abernathy, N5KOB	"I urge you to dream - I did, and one
U. of TX, P O Box 7580	day I found myself standing on the
Austin, Texas 78713 USA	surface of the moon." - Gene Cernan

232. Re: [APRSSIG:772] Recommended GPS unit?

From: janderson@ram.net (Jack Anderson)
Date: Thu, 13 Apr 95 09:53:48 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0ab7@ram.net>
Rendered body type: text/plain

>As it says - want wat of these suckers for APRS good times - which is the
>current favourite of the group.
>
>Thanks
>Bob Smith,
>N3FTU.

I think the Garmin GPS-45 is a great bet.

233. Re: [APRSSIG:781] NWS SURFACE ANALYS. ON INTERNET

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 13 Apr 1995 09:54:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.950413095340.279D-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Thu, 13 Apr 1995, MISS ALEXANDRA PALM wrote:

> Dear all,
> I am looking for on the internet where I can get the SA
> reports for a sepcific state or USA, so I can inport this
> into APRS using the GETNWSDATA.

Try gopher to wx.atmos.uiuc.edu

234. Re: [APRSSIG:786] need help with Garmin 45 and APRS 6.6

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Thu, 13 Apr 1995 10:23:29 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504131523.KAA23639@solar.cs.tamu.edu>
Rendered body type: text/plain

> Hi and thanks for the five different instructions for subscribing. One
> of them worked and here I am. I tried using my Garmin 45 with APRS 6.6
> last night and kept getting "bad nmea" in the upper right corner. I
> tried nmea-0183 version 1.5 and 2.0 from the GPS. I receive \$GP....
> data OK on the comm screen.

Were I to guess, I'd guess the -45 is sending out more data than the program's expecting, or sending out at least one variant Bob's not programmed for. Good guess, Bob?

> Also, I found the USGS map vector data on the net but I seem to get the
> feeling from the APRS docs that the 2M data is what we have already for
> Rochester, NY, just main highways, and the 100k data is too detailed
> for mapping the whole county(I may have these reversed). Can I use the
> 250k data? or any other suggestion for using the map data?

The 1:100k data is uable for mapping whole counties, provided you don't get too detailed. I use it for grabbing data for interstate and US hiways, State routes/hiways, and major routes for whole county mapping. For more daitailed area maps, I use each separate quad, and only work within that are for the major and minor city streets. You have to be obsessive-compulsive about defragging both by program and manually, and then you have to go manually and delete a lot of extraneous points that the method of input USGS uses incurs.

Hope this helps.

Gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gergy@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

235. Re: [APRSSIG:784] Re: subscribe

From: Thomas Griffin - x7792 <griff@SSD.intel.com>
Date: Thu, 13 Apr 1995 08:44:31 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <9504131544.AA06113@bungee.SSD.intel.com>
Rendered body type: text/plain

> Don't subscribe to this unless you want to get it forever. I am caught in
> this nightmare of a sig and can't get out. Can anyone tell me how to
> unsubscribe? I am desparate!
>
> Jeff

When you subscribed you should have received a mail which included the following:

To unsubscribe from this mailing list send a message to `listserv@tapr.org` with the following line in the body of the message:

signoff aprssig

73, Thomas (Griff) Griffin, N7ZKL
Beaverton, Oregon, USA
Internet: n7zkl@amsat.org
Packet: n7zkl@k7iqi.#nwor.or.usa.na

236. Re: [APRSSIG:780] AHAAT/Antenna Height Above Average Terrain

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 13 Apr 1995 12:00:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950413115411.25772C@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 12 Apr 1995, Doug Smith wrote:

> What formula are we using these days for Antenna Height Above Average Terrain
>
> I'm 20 feet above sea level, and the antenna is 30 feet above that but I'm
> surrounded by hills on three sides.

APR REPLY: I would say your HAAT will be negative. Take your 50 foot height above sea level, and subtract the height of the hills from it and you will get a very large negative number. Since APRS only allows for positive heights, use 0. I would also then give it a directivity in the direction of the 4th missing hill...

I dont use a formula. I just estimate how high my antenna is above AVERAGE terrain out to my visual horizon. Just use common sense. (although you wouldnt beleive the people around here that use sealevel, an absolutely useless measurement unless you live on a FLAT ISLAND!

237. Re: [APRSSIG:780] AHAAT/Antenna Height Above Average Terrain

From: janderson@ram.net (Jack Anderson)
Date: Thu, 13 Apr 95 12:27:29 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0aba@ram.net>
Rendered body type: text/plain

>What formula are we using these days for Antenna Height Above Average Terrai
>for APRS purposes? There's a formula in Part 73 somewhere as I recall. If I
>can locate a map with elevations what can I use for a formula?
>
>I'm 20 feet above sea level, and the antenna is 30 feet above that but I'm
>surrounded by hills on three sides.
>
>Oh and, how important to APRS DF is the AHAAT setting?

Normally it is computed by locating your site a topo map and drawing 8 equally spaced 10 mile radials from the site (N,NE,E,SE,S,SW,W,NW). Then you dot the radials at one mile intervals and record the elevations at each interval. (This is good for estimates, but the FCC requires at least 50 points per radial.) Next you compute the average elevation along each radial, then, compute the average of the radial averages. It can be time consuming when done manually like this. For APRS you might just want to take an educated guess. Topo maps can be purchased from the USGS. You might check with local outfitters and camping stores too.

I recall seeing something in one of these TAPR sigs about a service on the Internet where you could do this automatically with email by providing your lat/lon. Maybe someone else can advise.

Jack

238. Re: [APRSSIG:788] Re: subscribe

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Thu, 13 Apr 95 09:50:22 EDT
To: aprssig@tapr.org
Message-ID: <9504131350.AA11670@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

Just send msg to list proc with unsubscribe in body on separate line

Bob Baltz	*
Chesapeake Region Sales	*
Ph: (410) 987- 8777	*
Fax: (410) 987-8777	*
E-mail bob.baltz@ustc.vlsi.com	*

239. Question about aprs6.8A

From: Gordon Fuller <gfuller@netcom.com>
Date: Thu, 13 Apr 1995 11:29:49 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9504131119.A14787-01000000@netcom19>
Rendered body type: text/plain

Does version 6.8A reset the parity in the TNC to 0 ? Everytime I load 6.8a into my KAM, my parity gets reset to 0. I run my parity at 4 and have never had to reset it on older versions. Thanks

gfuller@netcom.com

240. Re: [APRSSIG:794] Re: AHAAT/Antenna Height Above Average Terrain

From: dhenders@InterServ.Com
Date: Thu, 13 Apr 95 13:36:00 PDT
To: aprssig@tapr.org
Message-ID: <9504132036.AA12319@ InterServ.Com>
Rendered body type: text/plain

Would like to know if someone has address for this service:

<---- Begin Included Message ---->
I recall seeing something in one of these TAPR sigs about a service on the Internet where you could do this automatically with email by providing your lat/lon. Maybe someone else can advise.

Jack
<----- End Included Message ---->

241. Re: [APRSSIG:796] Question about aprs6.8A

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 13 Apr 1995 17:36:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950413173308.1474A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 13 Apr 1995, someone wrote:

> Does version 6.8A reset the parity in the TNC to 0 ? Everytime I load 6.8a
>

APR ANSWER: Yes, found out many folks having problems setting up their TNC's So in version 6.8a rather than expecting people to read the docs and set 9600,N,8,1, I now set PAR 0, 8bitconv ON, and AW 8. If you want to change this, simply modify your APRS\SYSTEM\INITtapr.TNC file..

242. 6.8a and HSP

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Thu, 13 Apr 1995 16:35:47 -0500
To: aprssig@tapr.org
Message-ID: <199504132146.QAA03806@home.interaccess.com>
Rendered body type: text/plain

Bob,

Looks like this fixed the problem for us HSP users. Ive run it for the last two days mobile (Motorola OEM card-Tiny 2-PacCom Y splitter-GrIDPAD computer) and its been bug free. Good mix of RMC, GGA and GLL data.

If the WX holds this weekend Ill rent a 172 or something and try it with GGA only.

Keep it up.

Looking forward to Dayton.

Ed
N9LCI

243. Re: [APRSSIG:794] Re: AHAAT/Antenna Height Above Average Terrain

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Thu, 13 Apr 95 18:33:29 EDT
To: aprssig@tapr.org
Message-ID: <9504132233.AA01058@umed.med.miami.edu>
Rendered body type: text/plain

>
> >What formula are we using these days for Antenna Height Above Average Terrai
> >for APRS purposes? There's a formula in Part 73 somewhere as I recall. If I
> >can locate a map with elevations what can I use for a formula?
> >
Easiest way is to live in South Florida. You just need a tape measure
HI!

Life on a pancake!

244. Need APRS Frequency in Memphis

From: WSykesDice@aol.com
Date: Thu, 13 Apr 1995 19:07:25 -0400
To: aprssig@tapr.org
Message-ID: <950413190723_82370621@aol.com>
Rendered body type: text/plain

Hello all. Name here is Wayne, KB4ZLE. I've been lurking on this list for about a month or so until I could get my packet station back up. Am running APRS 6.7a and would like to know if there is an APRS frequency in Memphis, TN. Any help would be appreciated.

73's - Wayne Sykes, KB4ZLE
WSykesDice@aol.com

245. Re: [APRSSIG:800] Re: AHAAT/Antenna Height Above Average Terrain

From: janderson@ram.net (Jack Anderson)
Date: Thu, 13 Apr 95 21:27:21 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0ac8@ram.net>
Rendered body type: text/plain

>Easiest way is to live in South Florida. You just need a tape measure
>HI!
>
>Life on a pancake!

Even the FCC says to just use 10' for the average terrain in Miami.

Jack

246. beacons and maps

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 14 Apr 1995 10:31:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950414101959.4497D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Saw an all USA packet bulletin chastizing the periodicity of APRS beacons in SoCal. The guy made a good point about beacons on SHARED frequencies. In version 6.8b (when finished) will increase the maximum beacon time beyond the current 15 minutes. And will also take in to account whether an operator is present or not.

MAPS: I asked W7KKE to take a look at the CONV100 program and its inability to handle LARGE numbers of initial points from a CDROM file. He modified the array size and reports he can now process a file that results in as many as 15,000 points. He has posted in on ARS 410 280-2503 as CONV100C.bas

Also 68b will have the ability to REPLAY a BK file. This trivial change means you can go replay a BK file to find out where someone lives, without having to LOAD the old BK file and therefore loose the present picture...

I have reports of some bugs that I need second opinions on.

- 1) one station says his rain gauge does not work
- 2) Another is seeing too many posits saved in his track history file
- 3) Another says the fix in 67a that PREVENTS autologging of U-II data does not always work
- 4) Blue screen does not always come up on a connect. (I have seen this one too, and I agree it is a problem).

All of these were reported in 68a but they also say they have been there for a while...

247. Re: [APRSSIG:803] beacons and maps

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Fri, 14 Apr 1995 09:05:35 -0700
To: aprssig@tapr.org
Message-ID: <199504141605.JAA24614@kilroy.jpl.nasa.gov>
Rendered body type: text/plain

At 9:46 AM 4-14-95 -0500, Robert Bruninga wrote:
>Saw an all USA packet bulletin chastizing the periodicity of APRS beacons
>in SoCal. The guy made a good point about beacons on SHARED
>frequencies.

Bob,

I take (and took) issue with the ALLUS PACKET bulletin regarding too many APRS beacons.

I believe that the author of that bulletin confused 'people running APRS' with 'people with APRS position info in their BTEXT'. My house is at 1620' at the foot of the San Gabriel Mountains above Pasadena, and I have a clear shot all the way down to San Diego (125 miles). My packet station runs 24 hours a day, and I have ample opportunity to see what goes on on-the-air. There is NO problem with an overload of APRS packets on 2m packet in LA (users ARE starting to add APRS position info to their beacons, which I think is GOOD!). Even the oft-tossed 'too many user beacons' complaint is, in my opinion a big red-herring. The worst offenders in LA are the BBSs and Nodes themselves, beaoning every 10-15 minutes (as if no one knows they are there already). At least now Nodes and BBSs are starting to put APRS position info in their Beacon strings, which will aid in producing maps of the local network.

Regarding 'shared frequencies,' this discussion of APRS as a new mode puzzles me. It is primarily 1200bd AFSK using FM radios. I see APRS as a new USE of packet, not a new mode, and do not view APRS as 'sharing' the frequency any more than keyboard-to-keyboard users 'share' the frequency with a BBS. I am a SysOp of a major LA-area packet BBS, and I am glad to see APRS in use here. To me, I see APRS as a unique use of the capabilities of amateur radio, rather than simulating other modes of electronic communications.

I would highly recommend you NOT fix something that is not a problem.

73,

Greg (who will someday actually connect APRS to a radio, instead of mooching off of friends)

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

248. HTX-202 Tiny-2 TNC Cable

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
Date: Fri, 14 Apr 1995 14:24:45 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <950414142445.26b0f@CRPL.CEDAR-RAPIDS.LIB.IA.US>
Rendered body type: text/plain

I just purchased a Radio Shack HTX-202 and would like to use it with my PACOMM Tiny-2 tk-2 TNC Mic and PTT are on the same plug on the HT and Audio is on another. The TNC has seperate Mic and PTT on the DIN plug. Any help is greatly appreciated. on the HT and Audio is on another. The TNC has seperate Mic and

249. Re: [APRSSIG:804] Re: beacons and maps

From: keating@nosc.mil (Roger Keating)
Date: Fri, 14 Apr 1995 12:45:20 -0700
To: aprssig@tapr.org
Message-ID: <abb48029030210047285@[128.49.184.29]>
Rendered body type: text/plain

Good posting Greg.

Now, tell me what to put in my BTEXT so that W6RDF can beacon with APRS info on 145.01 300bd. I found your QSL cards and the log record so, I sent you a direct connect QSL for your contact with W6RDF. It's in the mail today.

>Regarding 'shared frequencies,' this discussion of APRS as a new mode
>puzzles me. It is primarily 1200bd AFSK using FM radios. I see APRS as a
>new USE of packet, not a new mode, and do not view APRS as 'sharing' the
>frequency any more than keyboard-to-keyboard users 'share' the frequency
>with a BBS. I am a SysOp of a major LA-area packet BBS, and I am glad to
>see APRS in use here. To me, I see APRS as a unique use of the capabilities
>of amateur radio, rather than simulating other modes of electronic
>communications.

Nice attitude. I wish APRS was better understood by all involved. In San Diego, the ARRL 00 warns us NOT to beacon on 145.01 with APRS information!

And he says APRS *must* be on 144.990 to be coordinated. Well this is turning out to be a big deal because 144.990 is also coordinated for 9600+ experimental work. We'll see what happens.

73
Roger Keating - KD6EFQ
keating@nosc.mil

250. Hurricane Plotting

From: K2ADJ@aol.com
Date: Fri, 14 Apr 1995 16:19:17 -0400
To: APRSSIG@tapr.org
Cc: Bruninga@greatlakes.nadn.navy.mil
Message-ID: <950414161916_83390524@aol.com>
Rendered body type: text/plain

Hi Bob,

Need some decision making information here.. Last year near the end of the Hurricane season I started to enter the location of the Hurricanes, I am sure you were able to see my entries at your location as I sent them far and wide. I was entering the locations finally near the end without speed and direction except in the comments as, well if you ever plotted hurricanes they never go where they say they will go but probably end up going dat-other-way as the last one did last year..

Now, I noticed that N2CZF was entering them also but would do so only about once a day with speed and course which can confuse everyone in the direction of the storm especially if the storm turned and went that other direction.

Now, I understand that the Hurricane Center is ON LINE now but I have read that they will be receiving the hurricane reports but not issuing anything.

So, my question to you, oh great wize one, should I pick it back up again this year or just forget about it.. It is fun to watch the hurricane and where it is going and follow it..

What do you think, Bob?

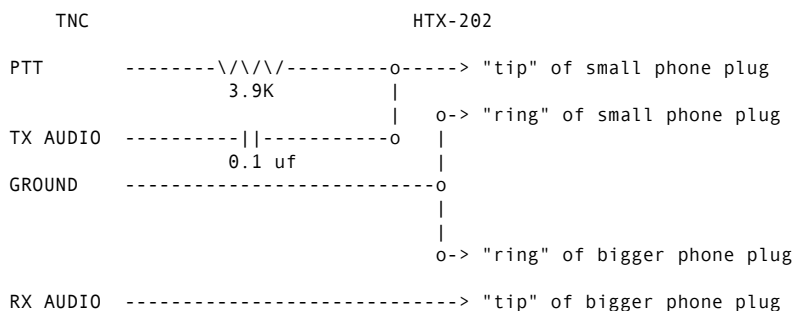
73 de Rod

251. Re: [APRSSIG:805] HTX-202 Tiny-2 TNC Cable

From: janderson@ram.net (Jack Anderson)
Date: Fri, 14 Apr 95 16:42:32 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0ae4@ram.net>
Rendered body type: text/plain

>I just purchased a Radio Shack HTX-202 and would like to use it
>with my PACOMM Tiny-2 tk-2 TNC Mic and PTT are on the same plug
>on the HT and Audio is on another. The TNC has seperate Mic and
>PTT on the DIN plug. Any help is greatly appreciated.
>on the HT and Audio is on another. The TNC has seperate Mic and

You have to build an interface cable as follows:



You might be able to find a better schematic in your doc. Use the one for "ICOM 2AT" style radios if it is available.

252. Mobile SSID numbers

From: kinahan@ws007-fddi.bytex.network.com (Tom Kinahan @ws007)
Date: Fri, 14 Apr 95 17:39:07 EDT

To: aprssig@tapr.org
Message-ID: <9504142139.AA05154@ws007-fddi>
Rendered body type: text/plain

Hi all!

I've seen people being reminded that mobiles sending gps data should set their SSID to <call>-9. Is this just a standard that we're all trying to adhere to? Are there other SSIDs used for other types of operations? Are there technical reasons for this? Can someone knowledgeable full me (us) in?

Tom Kinahan N1CPE
kinahan@bytex.network.com

253. Re: [APRSSIG:654] Re: HELLLPP...

From: EDTPHIL@aol.com
Date: Fri, 14 Apr 1995 17:53:31 -0400
To: aprssig@tapr.org
Message-ID: <950414175329_83485054@aol.com>
Rendered body type: text/plain

Please unsubscribe, Thanks, E.T. Phillips

254. Re: Hurricane Plotting

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 14 Apr 1995 20:30:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950414202307.11208A@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 14 Apr 1995 K2ADJ@aol.com wrote:

> Need some decision making information here.. Last year near the end of the
> Hurricane season I started to enter the location of the Hurricanes, I am sure
>
> Now, I noticed that N2CZF was entering them also but would do so only about
> once a day with speed and course which can confuse everyone in the direction
>
> So, my question to you, oh great wize one, should I pick it back up again
> this year or just forget about it.. It is fun to watch the hurricane and
> where it is going and follow it..
>

APR REPLY: APRS was designed so that who ever has the latest info on an OBJECT, should enter it and it should overtake any previous entries. But since N2CZF posits are comming in via HF gateway, your VHF posits will NOT cancel his, unless he hears yours. In a case like that, I would enter yours as well, but choose a different exact NAME so that his doesnt cancel yours. I would also say to PUT THE CSE/SPD on them. That is the best data available at the time of the posit. BE SURE TO PUT THE CORRECT TIME OF THE POSIT so it DR's properly. Subsequent reports can allso use a slightly different name (SSID?) so that viewers can see present an some of the past posits...

255. Re: [APRSSIG:809] Mobile SSID numbers

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 14 Apr 1995 20:35:52 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950414203303.11208B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 14 Apr 1995 kinahan@ws007-fddi.bytex.network.com wrote:

>
> I've seen people being reminded that mobiles sending gps data should set
> their SSID to <call>-9. Is this just a standard that we're all trying
> to adhere to? Are there other SSIDs used for other types of operations?

APR REPLY: The -9 is required for STAND-ALONE-TRACKERS that want to look like a CAR. all of the other SSID's define other mobile symbols (see SYMBOLS.txt). For APRS mobiles, however, any call can appear as any symbol. But in general, the -9 is sort of an eye catcher to suggest that the guy is mobile...

256. Kam and getting hf and vhf work together

From: TJRK28A@prodigy.com (MR HARRY E JONES JR.)
Date: Fri, 14 Apr 1995 21:46:20 EDT
To: aprssig@tapr.org
Message-ID: <013.05504156.TJRK28A@prodigy.com>

Rendered body type: text/plain

Dear Mr. Bruninga,

I read your earlier message showing unproto command. I actually typed unproto aprs via hf1/aprs via vhf1 and entered. My unit transmits on HF only. Is my format incorrect? I have successfully gone into ops then comm and then tnc and typed tildea and make it go just to hf. But again am trying to have it do both radios. Or is this not possible and I have to do it one or the other? I am also reading some stations at bottom of my screen however, they are not appearing in place on my map. Why is that? On the updates which I subscribed for, do you send them automatically or do I need to request them from you? Thanks for your time. Your program is sure keeping me off the streets. Harry KD4MPC

257. Test

From: john.kerr@projectx.com (SYSOP)
Date: Fri, 14 Apr 95 22:16:00 -5
To: aprssig@tapr.org
Message-ID: <8A76538.002100006F.uuout@projectx.com>
Rendered body type: text/plain

Test

258. Attn: Complaint Dept.

From: K2ADJ@aol.com
Date: Fri, 14 Apr 1995 22:33:37 -0400
To: APRSSIG@tapr.org
Cc: Bruninga@greatlakes.nadn.navy.mil
Message-ID: <950414223335_83745875@aol.com>
Rendered body type: text/plain

After watching 68a working its feet off on my camputator I just happened to hit the "R" key, hey! there was mail for me! Then I hit "B" and there were two new bulletins.. Please note that I hit the keys and LEARNED only then that I was being presented with something or that something was WAITING for me!

If this program, as fine as it is, is going to be used for any type of emergency communications or warning thereof, there should be some form or methode of advising you, the SYSOP, that there are new bulletins or there is mail for you just by watching the main map screen! Either two asterisks at the top of the screen, or a Upper Case "R" or "B" being displayed somewhere within the top 3 lines of the map screen notifying us that there is something for me to READ and READ NOW

The way it is now in 6.8a is is NOT suitable as a way to communicate between other sysops during an emergency, only to show objects, mobile or otherwise. I am sure now that Bob realizes the implications of what I have said will look it over - again, what else does he have to do this weekend - anyway?

Happy Easter or Passover to everyone....73 de Rod

259. Re: [APRSSIG:811] Re: Hurrica...

From: K2ADJ@aol.com
Date: Fri, 14 Apr 1995 22:58:26 -0400
To: aprssig@tapr.org
Message-ID: <950414225825_83767777@aol.com>
Rendered body type: text/plain

Thanks Bob for your suggestion regarding Hurricanes, will follow and at times will beacon WIDE,WIDE,GATE so that others outside of my local area will be able to see them.

By the way, if I want to spread the plots into other VHF areas, so I use WIDE,GATE,WIDE or use WIDE,GATE,GATE,WIDE ??

73 de Rod

260. 6.8a ok now with Garmin 45

From: Jon_Dickason@wb.xerox.com
Date: Sat, 15 Apr 1995 09:36:39 PDT
To: aprssig@tapr.org
Message-ID: <"<2CF88F2F81CC2776>2CF88F2F81CC2776@x-wb-0129-msl.xerox"@-SMF->
Rendered body type: text/plain

I got 6.8a and it now works with my Garmin 45. Thanks all.

Jon_Dickason@wb.xerox.com
N2JAC@WB2PSI

261. SUBSCRIPT

From: ac235@detroit.freenet.org (Gerald Gomes Jr.)
Date: Sat, 15 Apr 1995 14:30:33 -0400
To: APRSSIG@TAPR.ORG
Message-ID: <199504151830.0AA02329@detroit.freenet.org>
Rendered body type: text/plain

SUBSCRIPT APRSSIG

262. PACK&\

From: jra@ag9v.ampr.org
Date: Sat, 15 Apr 1995 14:00:09 -0400 (EDT)
To: aprssig@tapr.org, hfsig@tapr.org, dsp93sig@tapr.org
Message-ID: <199504151800.0AA05660@ag9v.ampr.org>
Rendered body type: text/plain

Attending the 1995 Dayton Hamvention? Time's running out to register
for PACK*BASH!

What?

A new event for the digitally-inclined ham, featuring:

- * Buffet dinner (with cash bar)
- * Dewayne Hendricks, WA8DZP, speaking on PCS, SS, FCC, and other acronyms
- * Bob Bruninga, WB4APR, speaking on the Future of APRS
- * Prize raffle
- * TAPR special interest group meetings
- * "Birds of a Feather" gatherings

When?

Friday evening, April 28, 1995
Dinner starts at 7:00 pm
Speaker at 7:45
Meetings to begin after the speaker

Where?

TJ's Restaurant
2462 Dryden Road, Dayton
(Dryden Road exit, I75 -- across from the Holiday Inn)

How?

Dinner requires advance registration and payment BY APRIL 24th, 1995.
Seating for dinner only is limited, so register early! The cost is
\$16.00 per person, tax and tip included.

All amateurs are welcomed to attend, enjoy the speaker, and
participate in the meetings, although only those purchasing a dinner
can eat.

To register, contact:
PACK*BASH
c/o TAPR
8987-309 E. Tanque Verde Road #337
Tucson, AZ 85749-9399

Phone: (817) 383-0000
Fax: (817) 566-2544
Internet: TAPR@TAPR.ORG

Visa/Mastercard Accepted

Who?

PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet Radio,
the national leader in digital communication -- and the Miami
Valley FM Association, Dayton's packet radio club.

For further information, contact TAPR, or email packbash@ag9v.ampr.org or
BASH@N8ACV.#DAY.OH.USA.NOAM

--

John Ackermann AG9V
Internet: jra@ag9v.ampr.org
Packet: AG9V@N8ACV.#DAY.OH.USA

263. Saving Digi Path

From: K2ADJ@aol.com
Date: Sat, 15 Apr 1995 17:01:23 -0400
To: APRSSIG@tapr.org
Message-ID: <950415170122_84344019@aol.com>
Rendered body type: text/plain

Bob, I don't know if I am doing it wrong or I may have stumbled on a problem with 68a... Let's hope it's me, hi.

When you hit the digi path, you hit O-S-D-S to SAVE a digi path, two boxes show up on the screen informing you to

Path NAME and digipeaters
Enter TWO letter path followed by , and the digipeater list.

Well, I tried that with the "," and it was not entered into the Config.APR file properly, the whole line resembles the plain digipeater path. In fact I could not even download it from the config file..

I then reentered it again, but this time I replaced the "," with a ":" (colon with no spaces) and it took just like it should and was able to download it when I wanted to run it again.

So, it is me or the program, I am really not sure, hi..

73 de Rod

264. Question & Suggestion

From: W2H0B@aol.com
Date: Sat, 15 Apr 1995 20:24:19 -0400
To: aprssig@tapr.org
Message-ID: <950415202417_84495404@aol.com>
Rendered body type: text/plain

Mainly for you Bob, WB4APR:

My question relates to the PHG rings around stations... If indeed the ring is accurate and denotes the transmitter range of the site, how does it relate to the receiver? By that, I mean to ask, if I increase my xmtr's output, the ring will grow, but really doesn't mean that the receiver started to receive better, does it? I assume the transmit and receive aren't related?

Second, If one stations's ring intersects another's without actually including the other station, does that mean they can communicate? Or, must one station be inside another station's ring to be able to communicate with it.

Now... a suggestion... when using the 43-line text, the characters get chopped off at the top where the boxes surround the text. Would it help if the boxes were eliminated and allow the text to be displayed in the color of the box? Hmm... I like the 43-line text otherwise.

While I have the floor(!)... I can't remember how far back I noticed it, but it seems that in the various betas of the 6.8 generation, the speed that the computer talks to the TNC has been affected to the point that I get a lot of " *TNC not responding* " messages in the Longitude line of the upper lefthand box. No error messages and no crashes... the program seems to continue to work properly... just keep getting this annoying TNC message that I'm sure isn't really hurting anything else. Any ideas?

Thanks for letting me ramble... I've got more later!(Hi)! 73 de Boyd AR

265. Re: [APRSSIG:821] Question & Suggestion

From: janderson@ram.net (Jack Anderson)
Date: Sat, 15 Apr 95 20:37:40 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0ae9@ram.net>
Rendered body type: text/plain

>While I have the floor(!)... I can't remember how far back I noticed it, but
>it seems that in the various betas of the 6.8 generation, the speed that the
>computer talks to the TNC has been affected to the point that I get a lot of
> " *TNC not responding* " messages in the Longitude line of the upper
>lefthand box. No error messages and no crashes... the program seems to
>continue to work properly... just keep getting this annoying TNC message tha
>I'm sure isn't really hurting anything else. Any ideas?

I get this now too, and a lot of the other users in my area started seeing it with 6.8. It doesn't seem to hurt anything. Probably indicates a failure of

the TNC to respond during a single attempt to communicate with it, but the notice doesn't go away when things are normal again.

Jack

266. I have to agree

From: wno1le@fly.HiWAAY.net
Date: Sat, 15 Apr 95 19:47:00 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950415201015.wno1le@wno1le.HiWAAY.net>
Rendered body type: text/plain

Bob i have to agree with one of the messages send by Boyd W2HOB on deleteing the boxes around the text when in vga mode. It's very very hard to read the text the way it is, specially for us older folks Hi.. Keep up the good work (Wars are being won Hi)..

```
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      | \  (o)(o) / |  
-----o00o-----oo-----o00o-----  
      | KE4EER |  
      | PKT:KE4EER@K4BFT.#NOAL.AL.USA.NA |  
      | [EM64sx] |  
      | APRS 145.790Mhz |  
      | 3458'34N-08629'53W |  
      | 0ooo. |  
      | .ooo0 ( ) |  
      | ( ) ) / |  
      | \ ( ( / |  
      | \_ ) |
```

267. Question / Thoughts (W5YI Proposal)

From: jkeck@smartdocs.com (Jim Keck)
Date: Sun, 16 Apr 1995 08:03:25 -0700
To: aprssig@tapr.org
Message-ID: <199504161503.IAA15648@warp10.smartdocs.com>
Rendered body type: text/plain

Hi.....

I have heard that the FCC will be looking into this proposed limitation of methods to spread information via Amateur Radio....

Although as I understand the specific goal of this proposal is to limit ARRL generated messages and CW Practice on the HF Bands, if it succeeds can it or similiar decisions be applied that limit the transmission of APRS, Beacons, CQ Calls, or any other one way transmissions that are an everyday occurance in Amateur Radio.

I will admit that I have not read or studied this proposal, however, from what I have heard discussed about it...This proposal needs to be soundly rejected.

Should we be concerned?

73...Jim

268. APRS EYEBALL AT HAMVENTION

From: AA8JK@aol.com
Date: Sun, 16 Apr 1995 12:08:01 -0400
To: aprssig@tapr.org
Message-ID: <950416120800_84928966@aol.com>
Rendered body type: text/plain

After much deliberation, it has been decided the the 1995 APRS EYEBALL will be held on Saturday, April 29, 1995 at the Mallard Landing Clubhouse in Beavercreek. This is the same location as last year's Eyeball.

Although many people sent a vote for a Friday Eyeball, TAPR and the Miami Valley FM Assoc. are hosting a dinner/packet forum for the packet crowd on Friday night. To avoid conflicts, I have decided on Saturday for the Eyeball.

Pizza and soda will be available for purchase at the Eyeball. Plans at this time are to take orders for pizza when one would arrive at the clubhouse.

Pizza and a few sodas should be in the \$5-6 range.

FACTS ABOUT THE 1995 APRS EYEBALL

PLACE:

Mallard Landing Clubhouse-Beavercreek, Ohio (East of Dayton) Just west of the intersection of Kemp and North Fairfield Road.

TIME:

The Clubhouse will be open after 6 PM on 29 April, 1995. Pizza orders will be taken until 7:30 or so. Please RSVP if you want some pizza, but might be a little late.

TALK-IN:

We have been given permission to use the 145.41 (-600) repeater for talk-in for Saturday night.

APRS STATIONS ON THE AIR IN DAYTON

I will have my gate up and operational for the Hamvention. AA8JK-4 is located south of Dayton in Miamisburg. AA8JK-4 is also WIDE and a WX station. We may have another WIDE close to Hara for Hamvention week.

Maps and additional information will be available at Hara.

I look forward to seeing all of you at Hamvention and at the Eyeball!

Steve Caesar AA8JK/VK4SID
2345 Mallard Lane #7
Beavercreek, Ohio 45431

Home: 513.429.1272
Work: 513.847.6663
Work FAX: 513.847.6691

Packet: AA8JK@njsf.oh.usa
Internet: AA8JK@aol.com

269. Re: [APRSSIG:824] Question / ...

From: W2HOB@aol.com
Date: Sun, 16 Apr 1995 12:22:17 -0400
To: aprssig@tapr.org
Message-ID: <950416122216_84938272@aol.com>
Rendered body type: text/plain

Please keep us posted about this FCC proposal... if anyone hears anything, do us all a favor and post it here on the SIG. Thanks for the "alert".

73 de Boyd W2HOB@W2HOB.#SNJ.NJ.USA.NOAM (or w2hob@aol.com)

270. Storage of Digi Path

From: K2ADJ@aol.com
Date: Sun, 16 Apr 1995 12:34:54 -0400
To: Bruninga@greatlakes.nadn.navy.mil
Cc: APRSSIG@tapr.org
Message-ID: <950416123453_84946494@aol.com>
Rendered body type: text/plain

Mr.Bob, please accept my apologies on the reporting of a problem with the storage of a digipath in 6.8a, there is no problem.

Received word from Boyd, W2HOB, that he tried the system out and it worked for him.. So this morning I tried it again and followed through by loading it back into the system after storing it to the config file.. Yup, it works..

73 de Rod

271. APRS/Ultermeter II WX Station

From: jkeck@smartdocs.com (Jim Keck)
Date: Sun, 16 Apr 1995 11:55:29 -0700
To: aprssig@tapr.org
Message-ID: <199504161855.LAA20162@warp10.smartdocs.com>

Rendered body type: text/plain

Hi.....

After obtaining some of the items to put together a remote WX station, I have come up with a few questions and concerns that I would like to throw at somebody who has already been there and done it.

I have learned that the Ultmeter II only gives the present conditions and the highest it has recorded since last being reset. That is unless one purchases that companion computer program and appropriate cable that the company offers as an optional item. So that is where I am at. Now I have the capability of seeing Highs and Lows during any period that has been recorded....

When the unit is placed at a remote location, it appears that this capability will again be lost, unless a piece of software exists that will allow the saving the APRS WX transmissions and ability to recall those readings for later use and/or graphing them to provide more useful information.

Your recommendations will be greatly appreciated.....

73....Jim

272. Southern CA APRS

From: jkeck@smartdocs.com (Jim Keck)
Date: Sun, 16 Apr 1995 11:55:32 -0700
To: aprssig@tapr.org
Message-ID: <199504161855.LAA20165@warp10.smartdocs.com>
Rendered body type: text/plain

Hi....

I would like to set up an APRS remailer in Southern CA on Packet and need to find out the address of interested individuals.

Please reply direct via internet (jkeck@smartdocs.com) or Packet (N6HNY@W6JW.#SOCA.CA.USA.NOAM) with your Internet and Packet address.

One of the first things we need to do is find out if anyone is presently making use of 145.790 in the Southern CA area for something besides APRS activity. Please monitor that frequency and make note of anyone using it.

73...Jim (N6HNY)

273. Re: [APRSSIG:826] Re: Question / ...

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 16 Apr 1995 14:01:24 -0500
To: aprssig@tapr.org
Message-ID: <v01510101abb717311ad0@[199.1.11.124]>
Rendered body type: text/plain

>Please keep us posted about this FCC proposal... if anyone hears anything, do
>us all a favor and post it here on the SIG. Thanks for the "alert".
>

>73 de Boyd W2HOB@W2HOB.#SNJ.NJ.USA.NOAM (or w2hob@aol.com)

Please DON'T, it is all over the other internet ham sigs and news groups, this is not the place for it. It is NOT a FCC proposal it was a proposal sent to the FCC.

Thanks
BOB KC5EJK Dallas

274. Re: [APRSSIG:830] Re: Questio...

From: W2HOB@aol.com
Date: Sun, 16 Apr 1995 15:42:15 -0400
To: aprssig@tapr.org
Message-ID: <950416154214_85079988@aol.com>
Rendered body type: text/plain

Sorry, I wasn't aware that the FCC proposal was found elsewhere... I just heard about it on the SIG. No problem.

73 de Boyd AR

275. Re: [APRSSIG:828] APRS/Ulmet...

From: W2HOB@aol.com
Date: Sun, 16 Apr 1995 15:42:14 -0400
To: aprssig@tapr.org
Message-ID: <950416154213_85079973@aol.com>
Rendered body type: text/plain

This is in reply to Jim Keck (jkeck@smartdocs.com) re: the U-II...

Hello Jim... your problem really isn't a problem in a way. Yes, the U-II will save the HI's and LO's of Temp, Rain, Wind Speed until reset, but APRS will only save the Rainfall for the last 1-hr and 24-hr periods. After that, APRS resets itself and only reads what U-II subsequently sends it.

Sure, you could walk over to the U-II and still read the Hi's and Lo's, but APRS doesn't care after those 1-hr and 24-hr periods have "expired". That's the R00 and P00 parms you see. So no RESET of the U-II is necessary if it is remotely located. I am wrestling with this now though... I would like to move W2HOB-14 closer to the NJ coastline but fear that it would have to be reset because of some unthoughtof glitch which will lockup the weather station and NO OUTPUT would come forth! It has happened and was easily resolved by walking across the room, disconnecting the battery and power plug and bringing power back to it... kind of a U-II "re-boot", but... this has nothing to do with the weather string (in hex I think) that comes from U-II to APRS (COM2: at my place).

APRS will continue to use that string and cause it's own "timers" to use "new" data from U-II. Now - have I made this as clear as mud on a foggy day??

There is a program called AUTOWX, version 5.?, that is fed by U-II and outputs, on-the-air, in APRS format so all monitoring stations will plot that station on their maps just as if APRS was sending it. Now, a station could connect TO that station and read HI's and LO's and then disconnect. It's on many of the BBS's and could be on CompuServe... not sure about AOL. Obviously, if you're running that code, you have no map to look at since you're running it and not APRS. Hmmm... wish we could have it both ways, eh? Have fun es CUL.

73 de Boyd

276. Re: [APRSSIG:824] Question / Thoughts (W5YI Proposal)

From: keating@nosc.mil (Roger Keating)
Date: Sun, 16 Apr 1995 16:34:53 -0700
To: aprssig@tapr.org
Message-ID: <abb7580602021004513d@[128.49.184.29]>
Rendered body type: text/plain

Jim Keck:

> I have heard that the FCC will be looking into this proposed
> limitation of methods to spread information via Amateur Radio....
[...]

> I will admit that I have not read or studied this proposal,
> however, from what I have heard discussed about it...This proposal
> needs to be soundly rejected.

>

> Should we be concerned?

Jim, I don't know if the proposal will affect APRS, or anyone including the ARRL of course, because it is very easy to get around this prohibition. APRS stations could send the same information to a particular station, rather than not, and any other stations which monitor can also use the information. No license is required to operate an APRS program in receive only, monitoring what is on the air, just as no license is required to fox hunt using DF equipment.

The reason for concern ought to be the lack of enforcement of existing rules by the FCC. The problem stations wouldn't be problems if the FCC would actually exercise their sole authority and enforce the long existing regulations a bit.

Attempts to curb the problem with more rules is a misunderstanding of the cause of the problem, and so the actual solution. But this is far afield of APRS, so I'll stop here.

Roger Keating - KD6EFQ
keating@nosc.mil DM12jr

277. Re: [APRSSIG:832] Re: APRS/Ulmet...

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 16 Apr 1995 22:03:53 -0400 (EDT)
To: W2HOB@aol.com
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9504162251.A10211-b100000@acme>
Rendered body type: text/plain

On Sun, 16 Apr 1995 W2HOB@aol.com wrote:

> R00 and P00 parms you see. So no RESET of the U-II is necessary if it is
> remotely located. I am wrestling with this now though... I would like to move
> W2HOB-14 closer to the NJ coastline but fear that it would have to be reset
> because of some unthoughtof glitch which will lockup the weather station and
> NO OUTPUT would come forth! It has happened and was easily resolved by
> walking across the room, disconnecting the battery and power plug and
> bringing power back to it... kind of a U-II "re-boot", but... this has
> nothing to do with the weather string (in hex I think) that comes from U-II to
> APRS (COM2: at my place).

The event that occurred that caused the unit to lock up might have been the result of a very near massive static electric discharge (near lightning strike). I've had my station up for about a year, and had this happen once. Took about 2 days to figure out what happened, and how to correct it.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address: KB8JX0@W8CQK.#CMH.OH.USA
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 137th most knowledgeable person about A.P.R.S.

278. APRS 6.8a TNC not Responding

From: ChicagoWx@aol.com
Date: Sun, 16 Apr 1995 22:40:39 -0400
To: APRSSIG@tapr.org
Message-ID: <950416224037_85452006@aol.com>
Rendered body type: text/plain

Hi,
I would also like to third the fact that I am getting the TNC NOT RESPONDING in the upper right hand corner, more then I ever did and the radio is transmitting. Im sure a small glitch that can be taken care of in the next update.

Ron N9QGS
U-II reporting station in Streamwood, IL

279. Re: [APRSSIG:828] APRS/Ulmet...

From: ChicagoWx@aol.com
Date: Sun, 16 Apr 1995 22:45:14 -0400
To: aprssig@tapr.org
Message-ID: <950416224035_85451983@aol.com>
Rendered body type: text/plain

In regards to the message above saving WX conditions, there is a program called AUTOWX, and it will do just that, and you can inport that into the U-II TSR program and graph it them also, but APRS will also I believe save your WX data also, but not in a format usable by other programs but you can do a REPLAY under FILES (F) command.
Hope this helps.

280. Subscribe

From: jeff.brenton@espi.com
Date: Sun, 16 Apr 95 21:24:23 -0500
To: aprssig@tapr.org
Message-ID: <9504162124.0U2LP03@espi.com>
Rendered body type: text/plain

info

281. 6.8a--no color

From: <JCOSTER@WVNM.WVNET.EDU>
Date: Mon, 17 Apr 1995 08:03:53 -0400 (EDT)
To: <aprssig@TAPR.ORG>
Message-ID: <199504171205.HAA06736@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

I have been running 6.7 and 6.8a. In neither version do I have any color or color indicators (blue=wx, uplink=yellow, etc) on my CGA screen. I run APRS on an XT with the CGA monitor. Any help? Tnx de Jack, WF8X.

282. Re: [APRSSIG:821] Question & Suggestion

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 17 Apr 1995 09:13:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950417090424.15986E@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 15 Apr 1995 W2HOB@aol.com wrote:

> My question relates to the PHG rings around stations... If indeed the ring is
> accurate and denotes the transmitter range of the site, how does it relate to
> the receiver? By that, I mean to ask, if I increase my xmtr's output, the
>
> Second, If one stations's ring intersects another's without actually
> including the other station, does that mean they can communicate? Or, must
> one station be inside another station's ring to be able to communicate with

APR REPLY: Its a problem to show both XMT and RCV range. Impossible to do it with just one ring. So interpret it as a XMT ring. If the transmitters are both nominally 10 watts, then the XMT and RCV rings are the same. With this design, the rings only need to intersect for COMMS to be possible, but take it all with a grain of salt!

> computer talks to the TNC has been affected to the point that I get a lot of
> " *TNC not responding* " messages in the Longitude line of the upper

APR REPLY: This can also happen each time a PACKET comes in at the same time as APRS is checking the TNC. Is frequent occurrence on busy nets... As long as its working, ignore the message.

283. Re: [APRSSIG:838] 6.8a--no color

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Mon, 17 Apr 1995 09:22:58 -0500
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <9504171321.AA07984@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 07:22 AM 4/17/95 -0500, JCOSTER@WVNM.VVNET.EDU wrote:

>I have been running 6.7 and 6.8a. In neither version do I have any color or
>color indicators (blue=wx, uplink=yellow, etc) on my CGA screen. I run
>APRS on an XT with the CGA monitor. Any help? Tnx de Jack, WF8X.
>

Not a problem.

aprs uses 640*200 mode in cga which is a b/w mode.
If you want colors with a cga display, you have to use 320*200, which is not enough for the maps in aprs (and so not available).
Concerning the cga display, i also have to use (what a pity!): we have in cga the same problem as in vga 43 lines; the characters at the bottom of the screen are "eated" by the box surrounding them and quite difficult to read.

Bernard,KB2TGH

284. Re: [APRSSIG:824] Question / Thoughts (W5YI Proposal)

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 17 Apr 1995 09:26:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950417091633.15986F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 16 Apr 1995, Jim Keck wrote:

>
> I have heard that the FCC will be looking into this proposed
> limitation of methods to spread information via Amateur Radio....
>
> Although as I understand the specific goal of this proposal is
> to limit ARRL generated messages and CW Practice on the HF Bands, if
> it succeeds can it or similiar decisions be applied that limit the
> transmission of APRS, Beacons, CQ Calls, or any other one way
> transmissions that are an everyday occurrence in Amateur Radio.
>

APR REPLY: The proposal should be soundly rejected. Having studied every possible method of networking and interlinking data and human communications in the NAVY, we kept coming back to the simple BROADCAST

as THE MOST EFFECTIVE way to disseminate information quickly and efficiently. ON a tactical net, EVERYONE listens, and the station with new INFO transmits it to the group! As soon as you start ACKing receipt by every RECEIVER, you end up spending more time ACKING then sending new info. This applies to plain ole'voice nets as well as digital.

By the way, this is what separates APRS from DX clusters, and CONVERSE nodes. APRS sends and does NOT expect an ACK. To give some confidence to message delivery, there are two mechanisms: 1) Redundant but decaying transmissions to account for garbled or collided packets, and 2) heart beat signals from all receivers indicating that they are ON LINE and therefore probably receiving...

P.S. For those that complain about APRS redundant transmissions, suggest that they monitor a DX cluster or CONVERSE node, and count the number of total packets transmitted (to get the same one-liners across) and I think they will count a LOT more packets! hi hi

285. Re: [APRSSIG:828] APRS/Utmeter II WX Station

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 17 Apr 1995 09:35:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950417092942.15986H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 16 Apr 1995, Jim Keck wrote:

>
> I have learned that the Utmeter II only gives the present
> conditions and the highest it has recorded since last being reset.
> That is unless one purchases that companion computer program and
> appropriate cable that the company offers as an optional item. So
> that is where I am at. Now I have the capability of seeing Highs
> and Lows during any period that has been recorded....

>
> When the unit is placed at a remote location, it appears that
> this capability will again be lost, unless a piece of software exists
> that will allow the saving the APRS WX transmissions and ability to
> recall those readings for later use and/or graphing them to provide
> more useful information.
>

APR REPLY: Yes, and no. The U-II internally saves the highest and the lowest (I believe, I don't use it that way...) but all that APRS does is take a SAMPLE reading every N minutes. This is an instantaneous SAMPLE and will only show the conditions at that instant. Same thing for a remote U-II. Only instantaneous data.

But APRS can be made to save all of these reports to disk in a track history file by simply turning the POS filter off. Then you will get a trend history of all of these samples. This should work for remotes too. (someone with a remote can confirm this?)

Finally, hold your breath, Peet Bros may be doing something to help us...

286. Re: [APRSSIG:838] 6.8a--no color

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 17 Apr 1995 09:54:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950417094735.15986J-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 17 Apr 1995 JCOSTER@WVNM.WVNET.EDU wrote:

> I have been running 6.7 and 6.8a. In neither version do I have any color or
> color indicators (blue=wx, uplink=yellow, etc) on my CGA screen. I run
> APRS on an XT with the CGA monitor. Any help? Tnx de Jack, WF8X.
>

APR REPLY: There is NO color on CGA in HIGH RES mode, no matter what software you run.... hi hi
APRS always uses HIGHRES

287. MAKING 100,000 USGS MAPS!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 17 Apr 1995 10:10:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950417095543.15986K-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I talked to W7KKE after viewing some frustrations by individual map makers about the inability of CONV100b.bas to handle large numbers of points in dense areas. He has repsoonded with CONV100C.bas which eliminates the problem. He says it easily handles up to 18,000 points and he still has not been able to crash it...

So now, using CONV100C and then MAPFIX68 anyone (with a lot of time on his hands) can make street level maps. Here is what Ken, W7KKE reports:

To get the data down to a usable (under 3k points) map file at street level, he usually targets a 4 mile range map. In dense urban areas, this may only be a 2 mile map. The amount of time to do this takes an average 8 hours (and he is well up the learning curve!)

But he also has a digitizer (11 inches square) and concludes that the CD ROM approach is slightly better for him cuz he doesnt have to find good quality paper maps.

APRS CONCLUSION: Dont overlook the ability of everyone with a GPS to simply save a track history file of where he drives and then replay that in MAPFIX68 to draw his own favorite roads onto existing maps. Having a street level map is impressive, and is ideal for a public service event contained within a few mile area, BUT street level detail is not important when mobiles are moving above 30 MPH and stretched over dozens of miles. They will pass thorough a 2 mile detail map in only 4 minutes...

So before you get frustrated with maps, decide what your overall objective is. Once you decide that CDRom data is for you, then go for it! Its fun and adicting! (ugh)

288. other questions and suggestions

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Mon, 17 Apr 1995 11:14:59 -0500
To: aprssig@tapr.org
Message-ID: <9504171513.AA08055@seism1.ess.sunysb.edu>
Rendered body type: text/plain

I played with aprs all the week-end so here is a few comments:

I understand that transmission of redundant information (in the case of aprs) is much more efficient that usual converse mode. But this is not a reason to send more packets that needed. I see a lot of aprs beacon packets here that seem useless, ie contain only a comment like "aprs 0.0x in line". I would say (or perhaps we use the beacon in a false manner?) that a position packet with some comment is enough to report a fixed station. Also, the actual usual timing of 15 min is too small i think. Please understand me: i do not care of these complains about aprs cluttering frequencies with beacons, but in respect for everybody, and for the efficiency of the aprs network, we have to send no more information than needed.

Concerning aprs maps: i found some times that the map becomes hard to read when there is a lot of stations. An optional mode with only small dots replacing all the big icons (houses, cars, digi , towers , apple) would make them more readable. We just need a color code to distinguish between mobiles, fixed stations, digi, wx....

One last question: what about this enigmatic file in the doc called voxrptrs.txt. The content looks like very interesting! any news on this topic. (for everybody except Bob and Keith: you did read this file did you?).

Bernard, KB2TGH

<<><><>> Bernard Seront
| | e-mail: seront@seism1.ess.sunysb.edu
| (o)(o)
\) addr: Department of Earth and Space Sciences
| ,__| State University of New-York at Stony Brook
|____/ STONY BROOK, NY, 11794-2100, USA
/ \ phone: (516)632-8302 fax: (516)632-8240

289. Re: [APRSSIG:842] Re: APRS/Ultermeter II WX Station

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Mon, 17 Apr 1995 17:08:32 -0600
To: aprssig@tapr.org
Message-ID: <9504171708.AA32850@oscar.cayman.adclab.bls.com>
Rendered body type: text/plain

> On Sun, 16 Apr 1995, Jim Keck wrote:
 > >
 > > I have learned that the Ultmeter II only gives the present
 > > conditions and the highest it has recorded since last being reset.
 > ---stuff Deleted---
 > >
 > APR REPLY: Yes, and no. The U-II internally saves the highest and
 > the lowest (I believe, I dont use it that way...) but all that APRS
 > does is take a SAMPLE reading every N minutes. This is an
 > instantaneous SAMPLE and will only show the conditions at that
 > instant. Same thing for a remote U-II. Only instantaneous data.
 >
 > But APRS can be made to save all of these reports to disk in a
 > track history file by simply turning the POS filter off. Then you
 > will get a trend history of all of these samples. This should work
 > for remotes too. (someone with a remote can confirm this?)
 >

Is the U-II by Peet Bros the only unit to work with APRS? What about the Davis instruments WX stuff.

290. Re: [APRSSIG:829] Southern CA APRS

From: mmunster@qualcomm.com (Marvin Munster x5388)
 Date: Mon, 17 Apr 1995 15:14:17 -0800
 To: aprssig@tapr.org
 Message-ID: <abb8a6522502100482ef@[129.46.12.181]>
 Rendered body type: text/plain

> Hi....
 >
 > I would like to set up an APRS remailer in Southern CA on Packet
 > and need to find out the address of interested individuals.
 >
 > Please reply direct via internet (jkeck@smartdocs.com) or Packet
 > (N6HNY@W6JW.#SOCA.CA.USA.NOAM) with your Internet and Packet address.
 >
 > One of the first things we need to do is find out if anyone is
 > presently making use of 145.790 in the Southern CA area for something
 > besides APRS activity. Please monitor that frequency and make note of
 > anyone using it.
 >
 > 73...Jim (N6HNY)

Sure, add my name to it an we will see what is going on.

Marvin

Marvin J. Munster
 mmunster@qualcomm.com
 WB6PKK @ KJ6VC.#SOCA.CA.US.NOAM

 "As the fading light of a dying day filtered through the window blinds,
 Roger stood over his victim with a smoking .45, surprised at the serenity
 that filled him after pumping six slugs into the bloodless tyrant that had
 mocked him day after day, and then he shuffled out of the office with one
 last look back at the shattered computer terminal lying there like a
 silicon armadillo left to rot on the information highway."

291. Looking for a SubCarrier Audio receiver source

From: Gerald J Creager <gerry@cs.tamu.edu>
 Date: Mon, 17 Apr 1995 17:51:33 -0500 (CDT)
 To: cactus-intertie@stat.com, armadillo@cs.tamu.edu, aprssig@tapr.org
 Message-ID: <199504172251.RAA07257@solar.cs.tamu.edu>
 Rendered body type: text/plain

I'm doing some work with one of the labs on campus here at Texas A&M, and
 we're about to make differential GPS (mapping grade, not survey grade)
 available to the community. One hang-up appears to be the ready availability
 of USER receiver hardware. We're planning to encode it with a standard TNC,
 so what we need is something that puts out narrowband audio to feed to a
 receiving TNC.

Any suggestions as to where we can send potential community users would be
 appreciated. We, too, will have to get a couple, but we don't have to supply
 the world!

73, gerry N5JXS

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
gcreager@gothamcity.jsc.nasa.gov * to astronauts, and smile

292. Re: [APRSSIG:844] MAKING 100,000 USGS MAPS!

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Mon, 17 Apr 1995 18:43:00 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9504171858.A6966-c100000@acme>
Rendered body type: text/plain

On Mon, 17 Apr 1995, Robert Bruninga wrote:

> So now, using CONV100C and then MAPFIX68 anyone (with a lot of time on
> his hands) can make street level maps. Here is what Ken, W7KKE reports:
>
> To get the data down to a usable (under 3k points) map file at street
> level, he (W7KKE) usually targets a 4 mile range map. K In dense urban areas,
> this
> may only be a 2 mile map. The amount of time to do this takes an average
> 8 hours (and he is well up the learning curve!)

> APRS CONCLUSION: Dont overlook the ability of everyone with a GPS to
> simply save a track history file of where he drives and then replay that
> in MAPFIX68 to draw his own favorite roads onto existing maps. Having a
> street level map is
> impressive, and is ideal for a public service event contained within a
> few mile area, BUT street level detail is not important when mobiles are
> moving above 30 MPH and stretched over dozens of miles. They will pass
> thorough a 2 mile detail map in only 4 minutes...
>
> So before you get frustrated with maps, decide what your overall
> objective is. Once you decide that CDRom data is for you, then go for
> it! Its fun and adicting! (ugh)
>
>

Alright, now for some words from a pen and pencil map maker,
I tried the CONV100C.EXE this weekend, and it works, nicely, if you want a
lot of local detail in a small area. I used it for a 1.5 mile urban area at
19200 point per degree. Total time spent on the project was 5 hours. In my
opinion, this will be the way to go for any urban mapping project. If I were
to do it manually, it would have taken about 16 to 20 hours, and not have been
as good. (2400 ppd vs 19200 ppd).

Word of warning - it ain't easy to get the hang of how to do the maps.
(could be old dog vs. new tricks) But, once you figure it out
(the instructions are literal in there meaning) and get a few under your
belt, it's not bad (the 1:100,000 that is, the 1:250,000 still does not have
the details I need). - Map making is fun. Give it a try.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address: KB8JX0@W8CQK.#CMH.OH.USA
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 137th most knowledgable person about A.P.R.S.

293. Re: [APRSSIG:849] Re: MAKING 100,000 USGS MAPS!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 17 Apr 1995 19:23:38 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504180023.TAA01287@solar.cs.tamu.edu>
Rendered body type: text/plain

Well, I've been hitting another snag! I have some 1:100k DLGs from the Tx
DOT, which are updated, corrected USGS 1:100k maps. Of interest, they appear
to be in northing/easting format rather than lat/lon.

'Nother point. Bob, I've not pulled 100C down yet, but I will look at it. It
appears that the CONV100B program now wants the files in "optional" format.
Now, I hate to be this way, but last time *I* looked at the CDRom, there was
only one format. The STD and OPTIONAL formats are and artifact of the FTP
site. So, when I follow the instructions to process the files to delimited
format, LIKE THE ONES ON MY CDRom SET, it doesn't work!

OK. I give up. Where have I lost my mind? If someone sees it, please let me know!

73, gerry N5JXS

294. Re: [APRSSIG:677] Genius NewSketch 1212

From: Dennis Mason <dmason@cruzio.com>
Date: Mon, 17 Apr 1995 22:48:58 -0700
To: aprssig@tapr.org
Message-ID: <199504180548.WAA10407@mail2.netcom.com>
Rendered body type: text/plain

Don't forget if your also using a mouse, you have to assign the tablet to a different IRQ than the one the mouse is using. I had problems setting up a tablet under AUTOCAD for digitizing San Mateo county in Calif.

>Help... My good friend K2ADJ's son, Rob, loaned me a Genius (manuf) NewSketch
>1212 graphics tablet. I have/had (!) high hopes of digitizing the entire ARRL
>section of SNJ (not really) and was quite excited when I was able to borrow
>the tablet.
>
>I ran the test programs to confirm the tablet was working ok. It will work
>from COM1: or 2 and will emulate a 1.Summagraphics MM Series, 2. Bit Pad
>One/CalComp 2000, 3. GTCO Digi-Pad (Type 5), 4. GTCO Digi-Pad (Type 7), 5.
>Hitachi Tiger.
>
>I compiled the MAPFIXER program and it boots up ok and I'm using it
>correctly... I think... I read the docs and as far as I can tell, I'm
>following the procedure but the MAPFIXER doesn't seem to talk to the tablet
>and/or vice-versa. The MAPFIXER does crash out with an error message but I
>forgot exactly what it was... I will do it all again if anyone wants that
>error code. Hitting any key, of course, brings me back out to DOS.
>
>Thye docs do mention modifications of the .BAS source code depending on some
>tablet make and models. Might that be necessary here? Is one of those types
>above gonna work at all? Help! Whatever anyone recommends, I'll do. I've got
>tons of the USGS 1:24000 7-minutes maps that I'm just itching to make into
>APRS maps for South Jersey. Thanks to ya'll for reading & helping.
>
>73 de Boyd (w2hob@aol.com)
>
>.-
>
>
Dennis Mason / Fire Captain - Information Systems Specialist
1881 16th AVE / Calif. Department of Forestry and Fire Protection
Santa Cruz / dmason.fire.forest.ca.gov
CA 95062 /dmason.cruzio.com

295. Subscribing

From: WMN3@aol.com
Date: Tue, 18 Apr 1995 03:12:08 -0400
To: aprssig@tapr.org
Message-ID: <950418031207_86960739@aol.com>
Rendered body type: text/plain

Hi all,
Would it be possible to add, automatically as some mailing lists do already,
to put how to UNsubscribe at the end of each msg?

In case you want to know, I want to know, how to UNsubscribe. Thanks for
your time, Bill

296. Re: [APRSSIG:852] Subscribing

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 18 Apr 1995 07:39:14 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504181239.HAA09298@solar.cs.tamu.edu>
Rendered body type: text/plain

WMN3@aol.com sez:

>
> Hi all,
> Would it be possible to add, automatically as some mailing lists do already,
> to put how to UNsubscribe at the end of each msg?

>From where I sit, that would add a considerable amount of overhead to EACH MESSAGE. The lists I'm familiar with that do that are infrequent update services, not something as active as this list... a weekly news update, for example. Appending that info to each message would add data that has to be stored on the host machine here, and with the number of users we have, and the number of messages this list serves, that amounts to a lot of data.

> In case you want to know, I want to know, how to UNsubscribe. Thanks for
> your time, Bill

Please, PLEASE save the info message that tells you how to unsubscribe that you received when you signed onto this list. Or, remember that virtually all of the automated lists have an address of listserv or listproc on the machine that hosts the list. Sending mail to, for example, listserv@tapr.org, with the word 'help' in the body should get you all sorts of info on how to get off.

Gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

297. NMEA 0183 specs

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Tue, 18 Apr 1995 10:25:21 -0500
To: aprssig@tapr.org
Message-ID: <9504181424.AA08730@seism1.ess.sunysb.edu>
Rendered body type: text/plain

I found this post on sci.geo.satellite-nav, can be interesting for those who want to go gps. The ftp site has some introduction files txt about gps, dgps, nmea spec, some soft, reviews ...

From: bennett@erich.triumf.ca (P.Bennett)
>Newsgroups: sci.geo.satellite-nav

>>Can anybody tell me where to find or buy the NMEA 0183 specifications?
>>

>You can get the Real(tm) spec from:

>
> Cindy Ensley, President
> NMEA Phone: (919) 637-7759
> PO Box 3435 Fax: (919) 637-8136
> New Bern NC 28564-3435

>for about US\$70, I beleive.

>
>I have several info files and programs re NMEA-0183 interfacing available for
>ftp from sundae.triumf.ca (142.90.106.35) in /pub/peter. You may find enough
>info there, for free! Get index.html for a brief listing of waht is in each
>file...

>
>Peter Bennett VE7CEI

Bernard, KB2TGH

298. Re: [APRSSIG:850] Re: MAKING 100,000 USGS MAPS!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 18 Apr 1995 12:33:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950418123026.5986C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

You are correct. CONVI00 has to have the CDROM data in OPTIONAL format. Its sole function is to convert OPTIONAL format to GRAPHIC format.

This is because I originally wrote MAPFIX to operate on the GRAPHIC format supplied with the 2,000,000 CD ROM data.

SO, the problem is that 100,000 CDROM data comes in TWO formats. You must specify the OPTIONAL format when ordering your CD ROM... Hope you didnt invest in a lot of the wrong ones! hi hi... If so, then maybe you could write a new program to conver STANDARD to GRAPHIC format. hi hi

299. MYA Relay

From: MikeKE6EGK@aol.com
Date: Tue, 18 Apr 1995 12:36:43 -0400
To: aprssig@tapr.org
Message-ID: <950418123641_87260167@aol.com>
Rendered body type: text/plain

QRM is always a concern of mine. As the local APRS community (NORCAL) has been growing by leaps and bounds, the local frequency used by APRS (145.010) is rapidly becoming congested. One problem I have seen is the MYA (RELAY) that is built into the APRS program. I know that by going to the blue screen mode (O-C-T dumb terminal) your MYA can be changed, that is if you remember to change it. Before version 5.0 was released (ancient history now) I could go into the CFGxx.APR file, with a text editor, and change my MYA to something other than RELAY, and each time I started the program it would automatically set the MYA to what I changed it to in the CFG file. Now the problem is that since version 5.0 this technique has not worked. I am back to manually resetting my alias via dumb terminal. I know that the word relay appears in the newer CFG files and have changed it several times in several versions, and when starting up the program MYA RELAY is still there. (not just on my screen but in my TNC) Is there a way to change the CFG so that I do not have to remember to manually change MYA?

TNX

73 de Mike KE6EGK

300. Announcement: Map Making Program

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 18 Apr 95 12:50:30 EDT
To: aprssig@tapr.org
Cc: msproul@arn.net, sproul@eos.ap.org
Message-ID: <CMM-RU.1.4.798223830.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

As most of you know, I write the MACINTOSH version of APRS, called MacAPRS. This program is fully compatible with the PC version as far as the on-air protocols go. Bob and I keep in touch and make sure that anything done over the air is coordinated between us.

Over the past few weeks, there has been a LARGE discussion about how difficult it is to create good maps on the PC. Those that have seen BOTH the PC version and the MAC version have been very jealous of the Mac's Map creating capabilities.

In fact, several people have asked "Why don't you create PC maps?" or "I wish I could create maps that easily!"

Well.. I am working on it!!!!!!!

I discussed this with Bob last night, and although I have told a few people about this, I had not given a lot of details. Here goes the details..

So far, the MacAPRS program has had the capability to create MAPS from within the program. It could convert PC maps, it could create maps from the USGS 1:2,000,000 CD (what most of the maps are from) It could also create maps from the USGS 1:100,000 CDs (See the Feb issue of 73 magazine for an example) and it could create maps from a couple other sources of map data. In fact the stuff that is supported or is being worked on is growing almost weekly.

The problem with this 'GROWING' was that there was getting to be a LOT of stuff in MacAPRS just for creating and editing MAPS!! About a month ago Mark, KB2ICI, (my brother and co-author of MacAPRS) and I decided that it might be a good idea to separate this map making/editing out into a new program.

So, I am now announcing MacMapMaker (MMM for short). This program will do ALL of the current map stuff supported by MacAPRS, it will allow EDITING of the maps and will have the ability to create map files for the PC version of APRS.

MacMapMaker will have LOTS of editing capabilities, color selection, line smoothing, line adding, deleting, dynamic point reduction (For the PC maps) This will show you the CURRENT map, show you what it would look like at the next level down, i.e. data reduction, etc, so that you can keep playing until you get a map with small enough number of points, but high enough detail to get the job done.. You will be able to merge data, delete sections, most anything you could think of in editing/creating maps.. It will also support different coordinate systems such as Lat/Lon, UTM, State-Plane, and the different GPS Datums available.

To be able to do a lot of this type of high-end graph theory takes a fair amount of work and effort. This program will NOT run on a Mac Plus, it will require a color Mac and at least 8 meg of memory, but this is what you need to be able to this level of graph theory and data reduction..

The base program will probably be demo-ed at Dayton, and I expect to have PC map creation done sometime this summer, or at least by the ARRL DCC conference in Dallas in September.

MacMapMaker will be able to support most freely available map data bases and will also be able to use GPS input for creating maps of local areas..

Currently supported or being worked on:

- USGS 1:2,000,000 (the YELLOW CD)
- USGS 1:100,000 (the RED CDs) (14 CDs of the US)
- WDB & MWDB World Data Bank (publicly available, CD & Internet)
- DCW Digital Chart of the World (4 CD-ROM set)
- Tiger Files US Census
- USGS DEM Digital Elevation Data (For CONTOUR Lines)
- Named Location Database (147,000 Named geographic locations in the US)

Another nice thing is that a LOT of this data is available FREE on the Internet.

(If you know of other publicly available data, please let me know, I will incorporate anything I can get my hands on...I am working on a few more than listed above, but these are the ones I will support first..)

As you can probably guess, MacAPRS is also continuing to grow at a rapid rate!!

The MACINTOSH Operating System has a feature called the SPEECH MANAGER. This has been available for a couple years and now comes installed with the new versions of the system. This SPEECH MANAGER makes it VERY easy for any program to have SPEECH output.

MacAPRS 1.5.0 now has SPEECH output for two different things. When a NEW station appears, it tells you the CALL SIGN, and if you get MAIL to YOU, it says "MAIL FROM <the call it is from> <the text of message>" i.e. "Mail from WU2Z Hello This is a test" The voice is select able, so you can have it in a deep male voice, or a nice sounding female voice, or one of the other sample voices available.

MacAPRS 1.5.0 has the Map Creation stuff taken out of it which makes it somewhat smaller. (Although, Mac's DON'T have a 640k limitation hi hi). This does make it better for the low end Mac's..

As stated above, the MAP CREATION stuff has been moved to a new program called MacMapMaker..

Version 1.5.0 also has several other new features, but mostly Mac specific, so I won't go into detail here.

Version 1.5.0 will be available at Dayton and will be up on the FTP sites on May 1st.

=====

DAYTON 95..

Bob Bruninga and I will be at the TAPR PacketBash Friday night and we will be at the APRS EYEBALL Saturday night.

During the day, We will be in and out of the PEET-Brothers Booth.

If any of you are going to be at Dayton, please look us up... Also, tell us that you are on the APRSSIG mailing list

Keith Sproul

Keith Sproul
Student Housing Network Coordinator
Rutgers University Computing Services
<http://www-ns.rutgers.edu/~ksproul/>

Ham Radio: WU2Z
ksproul@noc.rutgers.edu
908 445-3695 Work
908 821-4828 Home

301. Re: [APRSSIG:855] Re: MAKING 100,000 USGS MAPS!

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 18 Apr 95 12:52:21 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.798223941.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

Standard vs Optional data formats..

On CD, the ONLY section available in STANDARD format is Section 4, which is FLORIDA..

I have written all of the code for the OPTIONAL data format, and have done some with the Standard format, see my previous message about MacMapMaker.

This program will eventually support the STANDARD format also since this data is available on the Internet..

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

302. Re: [APRSSIG:855] Re: MAKING 100,000 USGS MAPS!

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Tue, 18 Apr 1995 15:05:47 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504182005.PAA01955@solar.cs.tamu.edu>
Rendered body type: text/plain

> You are correct. CONV100 has to have the CDROM data in OPTIONAL format.
> Its sole function is to convert OPTIONAL format to GRAPHIC format.
>
> This is because I originally wrote MAPFIX to operate on the GRAPHIC
> format supplied with the 2,000,000 CD ROM data.
>
> SO, the problem is that 100,000 CDROM data comes in TWO formats. You
> must specify the OPTIONAL format when ordering your CD ROM... Hope you
> didnt invest in a lot of the wrong ones! hi hi... If so, then maybe you
> could write a new program to conver STANDARD to GRAPHIC format. hi hi

I now have to go back to TxDOT and get them to produce it in the optional form. I guess that's no big deal. it just sets a project or 2 back a couple more weeks.

73, gerry

--

Gerry Creager N5JXS	* SAREX Co-Investigator
gergy@cs.tamu.edu	* A little radio that lets kids talk
	* to astronauts, and smile

303. Re: [APRSSIG:851] Re: Genius ...

From: W2H0B@aol.com
Date: Tue, 18 Apr 1995 16:48:50 -0400
To: aprssig@tapr.org
Message-ID: <950418164748_87535943@aol.com>
Rendered body type: text/plain

Thanks to Dennis Mason, Fire Captain in California for the additional info on the digitizing tablet. I have the mouse on COM1: and the digitizer on COM2: so there is no interrupt problems but thanks for the tip!

73 de Boyd AR

304. Introduction

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 18 Apr 1995 17:35:11 +0100 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950418173244.22370B-100000@pinegov>
Rendered body type: text/plain

Greetings!

By way of introduction, my name is Kevin, amateur call KD4UYR, in

beautiful Seminole, Florida. I finally made it to the internet thanks to my local government. I operate the West Central Florida GATEway on 30 M in conjunction with my colleague Bob, W4/G3ZFJ.

I would like to meet/exchange ideas with other APRS users involved in WX spotting/SKYWARN/etc. We have been using APRS here in Pinellas and Hillsborough Counties of Florida since version 1.0....yes 1.0.

We have two dedicated Wide Area digi's supported by county government. Each is located on top of the County Courthouse in each county.

The North Florida Section of ARES is also looking into APRS to replace their existing packet network of gateway stations.

My ultimate goal is to link all the major urban centers in Florida via APRS on a full time basis with VHF digi's in each of those areas. Usage would be intended primarily for WX and ARES type applications but, of course, these routes would be available for normal amateur use most of the time. As a bonus, visitors, which abound in our state yearlong, would have instant APRS access to the rest of the free world via the 30M gateway.

We currently transmit all MIATORTBW, MIASVRTBW, MIASWSTBW, and NHC products intended for use by the public over the 145.790 APRS frequency via packet in real time. In addition we have three part time and three full time weather stations on line.

I would be interested in any ideas or usages for APRS that we have not yet stumbled upon which might assist in this venture.

73

```
*****
In the Eye of the Storm      *- de KD4UYR Pinellas SKYWARN
Volunteer Director of the Skywarn Program sponsored by NWS/KTBW
Kevin C. Heyboer             kheyboer@co.pinellas.fl.us
                               72245,157@compuserv.com

Postage Due e-mail not excepted
Remember: Houses in Florida DO NOT HAVE basements!
These are my views and not the views of my employer....especially since
you don't know who that is!
*****
```

305. APRS Maps from Those CD-ROM Atlases

From: miles@mail.utexas.edu (Miles Abernathy)
Date: Tue, 18 Apr 1995 21:30:09 -0500
To: aprssig@tapr.org
Message-ID: <v01520b00abba24f2d0c6@[128.83.204.109]>
Rendered body type: text/plain

I have learned in this forum that those commercial CD-ROM atlases and street maps are (effectively) encrypted, so they can't be used for APRS. I just saw the following exchange in another group, and realize it might point someone toward a way to use the CD-ROM's.

```
<from sci.engr.civil>
>> I need to find sources of translation software to allow me to
>> translate publically available maps in
>> TIGER, DLG, DEM and other formats to DLG format for
>> importation into AutoCad 12. TIGER is
>> the format used by the US Census Bureau and DLG and DEM's are
>> the formats used by USGS.
>
>A good place to ask would be comp.infosystems.gis
```

Good luck!

306. Re: [APRSSIG:862] APRS Maps from Those CD-ROM Atlases

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 18 Apr 1995 22:36:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504190336.WAA10333@solar.cs.tamu.edu>
Rendered body type: text/plain

Miles Abernathy sez:

```
>
> >> TIGER, DLG, DEM and other formats to DLG format for
```

> > importation into AutoCad 12. TIGER is
> > the format used by the US Census Bureau and DLG and DEM's are
> > the formats used by USGS.
> >
> > A good place to ask would be comp.infosystems.gis

I'll check it out, but the files tend to come out in STANDARD rather than
OPTIONAL format.

So, Bob, why did you go with optional format? Was that the CD available at
the time?

One other note: seems like I recall seeing something indicating that the
delimited files after unblocking were what's on the CDROM. Am I confused
again? it's been one of those weeks, and the drugs haven't kicked the sinus
infection yet, so I'm not always sure of what I think I'm seeing :-)

73, gerry

307. Re: [APRSSIG:863] Re: APRS Maps from Those CD-ROM Atlases

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Wed, 19 Apr 95 8:07:28 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.798293248.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

> So, Bob, why did you go with optional format? Was that the CD available at
the time?

The 1:2,000,000 CD has STANDARD, OPTIONAL, and GRAPH format data. The GRAPH
is by FAR the easiest to use since...

I said in a previous msg, the 1:100,000 scale USGS CD-ROMS are available ONLY
in Optional EXCEPT for the FLORIDA data which was the first one done..

I support Optional data, and have done some work on the Standard format, but
it is lower on the priority. Since more and more of this data is becoming
available on Internet, the STANDARD format may become more viable..

Please go back and read my big announcement about MacMapMaker which will
solve a lot of the problems.. It will be able to convert most of these data
types and will be able to produce PC maps. It will have FULL editing
capabilities and data reduction capabilities..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

308. Re: [APRSSIG:864] Re: APRS Maps from Those CD-ROM Atlases

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 19 Apr 1995 07:22:39 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504191222.HAA16452@solar.cs.tamu.edu>
Rendered body type: text/plain

Keith, Thanks for the reply. Unfortunately, I have unix and PC platforms
available, and no Macs. So, I'm back at square one.

Guess I'd hoped for a slightly easier solution, since I'm both a full-time
student and a pretty full-time research associate, but it looks like I just
added another programming project, unless I can get TxDOT to reformat.

73, gerry

--

Gerry Creager N5JXS	* SAREX Co-Investigator
gerry@cs.tamu.edu	* A little radio that lets kids talk
	* to astronauts, and smile

309. Re: [APRSSIG:857] Announcment: Map Making Program

From: Emmet2@aol.com
Date: Wed, 19 Apr 1995 08:56:56 -0400
To: aprssig@tapr.org
Message-ID: <950419085653_88391019@aol.com>

Rendered body type: text/plain

I'm glad you are separating the map making capabilities, it is not likely you will need this while you are operating, so nice to have it separate. I would also hope that this might reduce the RAM requirements of the MacAPRS application. I would think if you remove a segment of the code like that it would reduce the overhead somewhat.

Another idea, that I didn't see mentioned there, is that I would like to eventually link my GPS (Garmin-40) to the computer and make a map by driving around. To that end, it would be nice if it had a GPS input mode allowing you to (a) dl waypoints, (b) feed constant input from GPS. Then you might want to process the data and add labeling, color, and other elements. Might be nice to also have a merge mode so you can do it in segments if you are building an area map.

Thanks for considering the ideas.

- Chip Griffin aka Granite
- President of Thames River Apple Users Group
- SysOp of The Quarry LLBBS (203-889-6427)
- = Emmet2 (America Online) = emmet2@aol.com (internet)
- = N1MIE@N10KK.CT.USA (packet) = 1:320/301 (fidonet)

310. AFOS Bulletins over APRS

From: Kevin Heyboer <kheyboer@pinegov.co.pineallas.fl.us>
Date: Wed, 19 Apr 1995 09:31:09 +0100 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Cc: ROBERTST@BENNING-EMH1.ARMY.MIL
Message-ID: <Pine.SUN.3.91.950419092029.23855A-100000@pinegov>
Rendered body type: text/plain

The method of transmitting the text bulletins was actually quite simple but did require some government assistance.

The local Emergency Operations Center has an incoming AFOS (weather wire) line which is split to three printer ports. The data is in pure ASCII format at 9600 bps.

We took an old PC-AT and connected the printer output to one serial port. Using Mirror III (a CrossTalk clone), we buffer the printer output in the AT, then send it, line by line, out a second serial port to a dedicated TNC. The TNC sends the line by line data out with a 2 second pause between packets. These lines appear as unproto beacon packets on the APRS screen and are stored in the All Beacons text page.

In order to comply with FCC regulations, only NWS bulletins intended for the public are sent out this way. The software has a built in "choke" that stops any bulletin containing the phrase "For Intragovernmental use only" within the text.

We tried to send the data initially without buffering it...ie direct connection to the TNC, but the TNC would choke on it and lines would be lost because there is no flow control available on the line coming from the AFOS printer.

Our next project is to find a way to transmit data from the automatic weather stations along the intracoastal waterway bridges out to APRS. That may not be as easy.

Good Luck,

de Kevin KD4UYR

311. USGS 1/100K data

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Wed, 19 Apr 1995 09:50:30 -0500
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <9504191349.AA09490@seism1.ess.sunysb.edu>
Rendered body type: text/plain

Just a remark about 1/100k data:

They are available by anonymous ftp (hydrography and transportation only) at edcftp.cr.usgs.gov (for www <http://edcftp.cr.usgs.gov>) in the directory /pub/data/DLG/100K/ in BOTH optional AND standard format.

Bernard, KB2TGH.

312. Re: [APRSSIG:866] Re: Announcement: Map Making Program

From: sproul@eos (Mark Sproul)
Date: Wed, 19 Apr 95 10:12:18 EDT
To: aprssig@tapr.org
Message-ID: <v02110100abba944234d4@[165.1.27.20]>
Rendered body type: text/plain

>Another idea, that I didn't see mentioned there, is that I would like to
>eventually link my GPS (Garmin-40) to the computer and make a map by driving
>around. To that end, it would be nice if it had a GPS input mode allowing
>you to (a) dl waypoints, (b) feed constant input from GPS. Then you might
>want to process the data and add labeling, color, and other elements. Might
>be nice to also have a merge mode so you can do it in segments if you are
>building an area map.

MacAPRS has had that capability since DAY 1. Last June I drove from New Jersey to New Mexico and back and have the FULL track from doing EXACTLY that.

Mark

Mark Sproul	Amateur Radio: KB2ICI
Software Engineer @ Assoc Press	AppleLink: Sproul.M
sproul@eos.ap.org	Work: 609-860-7120
North Brunswick, NJ	Fax: 609-860-7129
http://www-ns.rutgers.edu/~ksproul/KB2ICI.html	

313. Kantronics KPC3 firmware info

From: Bob_Fairbairn-C12509@email.mot.com
Date: 19 Apr 95 09:45:45 -0600
To: aprssig@tapr.org
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>
Rendered body type: text/plain

I use a KPC-3 for APRS and Kantronics has some new firmware. I order it, hope to find out more. The following is an excerpt from the fax they sent me:

Global Positioning System (GPS) Capabilities New in version 6.0

The KPC-3 offers the most flexible GPS operations available in a TNC, so users can configure and make use of GPS data exactly the way they like. The KPC-3 can connect to GPS receivers with a NMEA-0183 interface and is APRS compatible.

The KPC-3's unique GPS capabilities include multiple string parsing, where users may select as many as 4 of the GPS unit's NMEA data strings. Once the data strings are specified, the KPC-3 continually stores the text in separate buffers. Users can specify which of the 4 buffers should be transmitted and can specify the beacon start time as well as the amount of time between beacons for each of the buffers. This allows multiple stations to easily report without data collision. And since the KPC-3's clock is regularly updated by the satellite-determined GPS clock the transmission times and intervals are always accurate.

In addition, users can set up a tracking buffer to store GPS data for later retrieval. This buffer is accessible via the KPC-3's mailbox. The sysop may also reconfigure the GPS unit remotely by connecting to the KPC-3 and simply changing the parameters.

I have no affiliation with Kantronics, I just use there products! And almost every other major HAM toy maker.

73 KF90A

314. Re: [APRSSIG:868] USGS 1/100K data

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 19 Apr 1995 11:05:56 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504191605.LAA20253@solar.cs.tamu.edu>
Rendered body type: text/plain

Bernard Seront sez:

>

> Just a remark about 1/100k data:

> They are available by anonymous ftp (hydrography and transportation only) at

> edcftp.cr.usgs.gov (for www http://edcftp.cr.usgs.gov)

Yep, but they're almost 20 years old in this part of the country. That's why I went to USGS.

I think I may have to do some fortranhacking and do a conv100 type program to do maps from standard format. Of course, I'm also asking TxDOT to recast in OPTIONAL form for me this time. If they can!

73, gerry

gerry@cs.tamu.edu

315. Re: [APRSSIG:866] Re: Announcement: Map Making Program

From: Keith Sproul <ksproul@hardees.rutgers.edu>

Date: Wed, 19 Apr 95 13:27:10 EDT

To: aprssig@tapr.org

Message-ID: <CMM-RU.1.4.798312430.ksproul@hardees.rutgers.edu>

Rendered body type: text/plain

I think you missed something in the announcement, The MacMapMaker WILL have the ability to input a GPS file, created by using either MacAPRS or your favorite terminal program and your GPS. MacMapMaker will take the DATA file and use it to create the map data. MacMapMaker will NOT have serial capabilities, so the file will have to come from another program...

Yes, removing this stuff DID reduce the program size, but only by about 100K.

All of the ram requirements for making maps was ONLY used if you actually did that..

Keith

Keith Sproul

Student Housing Network Coordinator

Rutgers University Computing Services

http://www-ns.rutgers.edu/~ksproul/

Ham Radio: WU2Z

ksproul@noc.rutgers.edu

908 445-3695 Work

908 821-4828 Home

316. Re: [APRSSIG:870] Kantronics ...

From: Bwimmers@aol.com

Date: Wed, 19 Apr 1995 14:18:05 -0400

To: aprssig@tapr.org

Message-ID: <950419141803_88711241@aol.com>

Rendered body type: text/plain

Go for it. We here in Northern Virginia are using the KPC-3's with 6.0 and they work great! Best feature by far is the ability to adjust and change the settings of the tnc even while in GPS mode.

Bernie

317. Re: [APRSSIG:856] MYA Relay

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>

Date: Wed, 19 Apr 1995 17:34:40 -0400 (EDT)

To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.950419172904.22097A-100000@greatlakes.nadn.navy.mil>

Rendered body type: text/plain

On Tue, 18 Apr 1995 someone wrote:

> QRM is always a concern of mine. As the local APRS community (NORCAL) has
> been growing by leaps and bounds, the local frequency used by APRS (145.010)
> is rapidly becoming congested. One problem I have seen is the MYA (RELAY)
> that is built into the APRS program....
> ...
> problem is that since version 5.0 this technique has not worked. I am back to
> manually resetting my alias via dumb terminal. I know that the word relay
> appears in the newer CFG files and have changed it several times in several
> versions, and when starting up the program MYA RELAY is still there. (not

APR REPLY: The fact that all APRS stations have the ALIAS of RELAY, does not, and should not add any QRM to the channel (in general). Are you sure you are not confusing UNPROTO of RELAY with ALIAS of RELAY? Stations should be sure to change their UNPROTO from RELAY to specific digipeaters, and should avoid using the UNPROTO path of RELAY.. I dont

see any reason to change your ALIAS from RELAY. Am I missing something?

318. Re: [APRSSIG:874] Re: MYA Relay

From: Richard Amirault <amirault@max.tiac.net>
Date: Wed, 19 Apr 1995 21:40:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9504192107.B4080-0100000@max.tiac.net>
Rendered body type: text/plain

On Wed, 19 Apr 1995, Robert Bruninga wrote:

> APR REPLY: The fact that all APRS stations have the ALIAS of RELAY, does
> not, and should not add any QRM to the channel (in general). Are you
> sure you are not confusing UNPROTO of RELAY with ALIAS of RELAY?
> Stations should be sure to change their UNPROTO from RELAY to specific
> digipeaters, and should avoid using the UNPROTO path of RELAY.. I dont
> see any reason to change your ALIAS from RELAY. Am I missing something?
>

I've just set up a second aprs station at my work QTH. There is a digi
that most of us use in the local area (we don't have a WIDE yet) that is
about 2 miles from my new station. I'm currently using an HT with an
indoor antenna. There is nothing I can transmit that will be heard for
1/8 the distance that the digi covers. There is no reason for me to digi
as RELAY (and besides when I transmit my computer screen turns a
different color!)

Richard in Boston N1JDU
amirault@tiac.net

319. Re: [APRSSIG:873] Re: Kantronics ...

From: Kent Larson <klaron@access.digex.net>
Date: Thu, 20 Apr 1995 07:58:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950420075600.16399B-1000000@access5.digex.net>
Rendered body type: text/plain

The REALLY neat thing is the ability to change settings while in GPS mode
using the remote sysop functions. Makes reprogramming trackers while
they are on top of a moving vehicle a snap.

Kent

On Wed, 19 Apr 1995 Bwimmers@aol.com wrote:

> Go for it. We here in Northern Virginia are using the KPC-3's with 6.0 and
> they work great! Best feature by far is the ability to adjust and change the
> settings of the tnc even while in GPS mode.
>
> Bernie
>
>

320. APRS users @ Dayton

From: mwalker@interlog.com (Mike Walker)
Date: Thu, 20 Apr 95 08:07:33 EDT
To: aprssig@tapr.org
Message-ID: <199504201210.IAA29227@gold.interlog.com>
Rendered body type: text/plain

Hello Keith, Bob and all
I will be at Dayton (easy to find, The Atlantic Ham Radio booth 588,
near Yaesu). Not sure if I am going to run mobile, but on VHF, what
frequency should I be using (not our 144.390 Canadian, North Western
NY freq, I assume).

Hope to see some of you there...cheers...mike (va3mw)

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

321. 6.8a & raw GLL

From: largriff@onramp.net (Larry Griffin, AB5GE)
Date: Thu, 20 Apr 1995 07:31:39 -0500
To: aprssig@tapr.org
Message-ID: <199504201231.HAA08975@ns.onramp.net>
Rendered body type: text/plain

Since installing 6.8a I no longer get reliable posits from raw GLL data. Sometimes it works, but other times the posit shows all zero values even though the View Screen shows valid GLL data.

I prefer to beacon GLL strings from the mobile because it produces less clutter on the map. The actual posit as shown with dead reckoning is not as easy to discern. Besides, you get a better idea of the general direction of movement from a station's track than from transitory vectors.

```
-----
| Internet: largriff@onramp.net
Larry Griffin | Internet: ab5ge@amsat.org
| AX25: ab5ge@w5ero.#wtx.tx.usa.noam
-----
```

322. Re: [APRSSIG:877] APRS users @ Dayton

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 20 Apr 1995 11:53:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950420114630.27588D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 20 Apr 1995, Mike Walker wrote:

> I will be at Dayton (easy to find, The Atlantic Ham Radio booth 588,
> what freq should I be using (not our 144.390 Canadian, North Western
> NY freq, I assume).

APR REPLY: THE APRS FREQ IN DAYTON WILL BE 145.79. THERE WILL BE WIDE digipeaters through Columbus and in the Dayton area, I donno about approaches from the North, Southe and West. Last year there were a total of 18 mobiles detected in Dayton. I suspect we will see a lot more this year.

Once we all get in the area, and watch the network. If it is REALY BUSY, then lets back-off on our REP-RATES. I will proably approach with WIDE,WIDE and a rep rate of 1 minute. Once I get to within the last 64 miles, I will back off to 2 minutes, and in the area, may drop to 5 minutes. If we fill up the P list, then anything shorter than 5 minutes will be saturation.

323. Re: [APRSSIG:879] Re: APRS users @ Dayton

From: DEANG@mail.syntron.com
Date: Thu, 20 Apr 95 11:27:46 CST
To: aprssig@tapr.org
Message-ID: <9503207984.AA798402466@MAIL.SYNTRON.COM>
Rendered body type: text/plain

I have a Motorola GPS and a Kantronics KPC-3 TNC hooked up in my car. The \$GPGGA and \$GPRMC data is being received by APRS at my house, but the position is not being plotted on the map.

Could someone with a similar setup please e-mail me a capture file containing the mobile KPC-3's setup as well as data from the mobile tnc (so I can see the proper format). I looked at the HST files but they don't contain any NMEA strings.

Thanks.

```
\\//
(..)
-oo0-( )-Ooo-----
| George Dean KC5KGE 2946.18N 9545.76W DEANG@mail.syntron.com |
-----
```

324. Need help

From: "Warren E. Boudrie" <web@vectorbd.com>
Date: Thu, 20 Apr 1995 15:11:12 +000 (UTC)
To: aprssig@tapr.org
Message-ID: <Pine.3.87.9504201512.A9529-0100000@vectorbd.vectorbd.com>
Rendered body type: text/plain

APRS is quite new to the Rochester NY area and a few of us are trying our best to work with it and promote it in this area. We usually meet one night a week on the air to practice on VHF and find that some stations QTH Symbol never appears or can take over a half hour to appear on the receivers maps. However, the sender has installed and sees the symbol on his map. His beacon messages come through and it is possible to send and receive messages from the Symbol-less station using either the S command

or from the blue screen. I also find that when using the S command, some stations rapidly get an ACK from me but I never get any ACK from them.

Any clues anyone can give me on these two conditions would be appreciated so I can pass the info along to our group of APRS newcomers.

73, Warren AA2LQ @ WB2WXQ.NY or Internet: web@vectorbd.com

325. Re: MYA Relay

From: MikeKE6EGK@aol.com
Date: Thu, 20 Apr 1995 16:11:37 -0400
To: aprssig@tapr.org
Message-ID: <950420161122_90114397@aol.com>
Rendered body type: text/plain

From: MikeKE6EGK@aol.com
Reply-to: aprssig@tapr.org
To: aprssig@tapr.org

On Tue, 18 Apr 1995 I wrote:

> QRM is always a concern of mine. As the local APRS community (NORCAL) has
> been growing by leaps and bounds, the local frequency used by APRS
> (145.010)
> is rapidly becoming congested. One problem I have seen is the MYA (RELAY)
> that is built into the APRS program....
> ...
> problem is that since version 5.0 this technique has not worked. I am back
to
> manually resetting my alias via dumb terminal. I know that the word relay
> appears in the newer CFIG files and have changed it several times in
several
> versions, and when starting up the program MYA RELAY is still there. (not

On Wed, 19 April, 1995 APR wrote

□ APR REPLY: The fact that all APRS stations have the ALIAS of RELAY, does
□ not, and should not add any QRM to the channel (in general).

I agree this should not create any QRM "in general", unfortunately there are
some who believe that "more is better".

□ Are you sure you are not confusing UNPROTO of RELAY with ALIAS of RELAY?

Yes I do know the difference between UNPROTO and ALIAS, that is why I asked
my question.

□ Stations should be sure to change their UNPROTO from RELAY to specific
□ digipeaters, and should avoid using the UNPROTO path of RELAY..

This is why I want to change my ALIAS, we are back the the "more is better"
operating mode. There are those who do not/will not read your README files,
specifically "DIGI.TXT", and those who believe that by leaving/adding RELAY
in their UNPROTO path will get better coverage.(ie:
DIGI,DIGI,WIDE,WIDE,RELAY)
(I've seen as many as 10 returns from just one POSIT) Most operators respond
favorably
to coaching by the local APRS community, and there are others who "do not"
and/or "don't care".

□ I dont see any reason to change your ALIAS from RELAY. Am I missing
something?

It is because of the "do not's" and "don't cares" that I sometimes change MYA
to something
other than RELAY. I know that by changing my ALIAS isn't going to change the
QRM by much,
but I do believe that every little bit helps. The problems discribed are not
continous, some do, after
a while, respond to coaching (or maybe devine intervention, hi), and some
sign off never to be heard
from again, it is during those times when listening does not appear to be a
consideration, that I change
MYA.

If there is a way to change the CFIG file to automatically change MYA when
starting up the
program, I would like to know it, if not I will continue to do it manually.

Thank you for your reply,
it appears that I wasn't specific enough in my original message, I'll try to
be more thorough in
the future.

TNX again,

73 de Mike KE6EGK
MikeKE6EGK@aol.com

326. Re: MFJ-8621 DATA RADIO

From: BillWB6LPG@aol.com
Date: Thu, 20 Apr 1995 16:13:48 -0400
To: aprssig@tapr.org
Message-ID: <950420161238_90115718@aol.com>
Rendered body type: text/plain

From: billwb6lpg@aol.com
To: aprssig@tapr.org

Hi All APRSsig readers, & Bob/WB4APR

The MFJ Jewel has arrived finally, 18 weeks delivery, but still missing
(on B/O) the AC plug-in 2amp pwr supply. Hi.. Nice little 5 x 5 x 1-1/2H
package, single square circuit board with separate ICM Xmit & Rcv HC-25U
or FM-2 small xtals. Two crystal suppliers mentioned Jan & ICM, mine had
ICM xtals, the package rattled, so found the Rcvr crystal not installed
and floating around inside on the circuit board. Hi..

Fourteen page instruction manual. Uses a U1 monolithic dual-conversion
narrowband-FM receiver IC that provides all mixer, IF amplification,
limiting and audio functions. Motorola.

Transmitter is Monolithic FM-transmitter IC U2. Freq by 18MHz crystal
and both 1200/9600 baud, by manually changing 2 little jumper plugs.
Power supply operates from 13.8vDC @ 1Amp.

U1 Rcvr Chip is Motorola: MC13135P QWH9428
U2 Xmtr Chip is Motorola: MC2833P KAA9430

Claim of 4-5 watts from Transistor PA stage Class-C amplifier.
Info on minor tuning adjustments, no swr protections, will have to use for
a while @ 1200b, no 96b TNC as yet. One page of 9600 baud operations info, in

manual, will see if another piece of MFJ junk. Hi..

Furnished crystal information (145.010), with Transmitter formula in error.
Usual small HC-25U or FM-2 type, with Rcvr 44-MHz 3rd overtone, and Xmtr
18-MHz Fundamental.

No complete schematic of circuit, only 2 block diagram component
illustrations.

Two power supply cables, and one 5pin din radio cable included. Minor
adjustments advised for Deviation, (no internal deviations control), adjust
your TNC, Crystal oscillator calibration and good cable wiring diagrams
Xmtr/to/TNC, usual 4 wire Mic.Audio, Ground, PTT< Rec.Audio, no receiver
speaker. Front panel bright aluminum, with Power push button and green/power,

red/transmit lights. Heavy black brushed aluminum cover panel over single
circuit board layout.

So far only smoke tested, with 12v DC applied. No on air reports as yet.

Anyways be advised, they are being deliverd, but how long you hafta wait,
knowing MFJ, who knows. And their little plug in transformer, 39.95 power
supply is on B/O, (back order, not body odor.)

73's & Enjoy, Bill/WB6LPG & KA6EYH.#NOCAL.CA.USA.NOAM or
billwb6lpg@aol.com

DISCLAIMER:

Oh yes, I have no pecuniary or monetary interest in MFJ Corp. this is
personal info for readers and Amateurs interested in the above discription
of a product. I in no way reap any benefits from the above.

327. Re: [APRSSIG:881] Need help

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 20 Apr 1995 19:24:40 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950420190926.3631B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 20 Apr 1995, someone wrote:

> APRS is quite new to the Rochester NY area ... but we find that some
> QTH Symbols never appear or can take over a half hour to appear on the
> receivers maps.....

APR REPLY: Maybe he has not placed himself on his OWN map yet. No
posits are transmitted until the station puts himself on his map.

> His beacon messages come through and it is possible to send and
> receive messages from the Symbol-less station using either the S command
> or from the blue screen. I also find that when using the S command, some
> stations rapidly get an ACK from me but I never get any ACK from them.
APR REPLY: They clearly CANT hear you.

THE PROBLEM IS PROBABLY RELAY-ITIS: stn-B

stn-A

stn-C

stn-D

If everyone is still using RELAY as a path, then A will never hear C and
C will never hear A. Also D and B will only see direct packets. This is
because EVERY packet sent by A is RELAYED by both B and D so that C
always hears COLLISIONS! These collisions occur all over the place.

CONCLUSION: Once you have more than 3 stations, YOU MUST BEGIN TO CHOOSE
your UNPROTO path to use specific calls NOT RELAY!!!!!!!!!!!!!!

This problem also exists with WIDES! If B and D are both WIDES, then
A and C cannot (I say again) CANNOT communicate via WIDE! Use the digi
callsign and you will be amazed how much better your network works!

328. [APRSSIG:878] 6.8a & raw GLL

From: largriff@onramp.net (Larry Griffin, AB5GE)
Date: Thu, 20 Apr 1995 21:06:25 -0500
To: aprssig@tapr.org
Message-ID: <199504210206.VAA18707@ns.onramp.net>
Rendered body type: text/plain

LG>Since installing 6.8a I no longer get reliable posits from raw GLL data.
LG>Sometimes it works, but other times the posit shows all zero values even
LG>though the View Screen shows valid GLL data.

BB>I assume that your GPS is outputting MORE than just the GLL? Or are you
BB>saying that that is the only one of the threee GGA,GLL,RMC that APRS uses.
BB>If you are outputting only GLL of the three and you are reporting that it
BB>does not work all the time. Then, tell me more details...

No, my mobile outputs GLL data ONLY. I use a Motorola PVT6 GPS with a
Kantronics KPC-3 in standalone mode.
At home... I've been running APRS since version 4.3. I never had a problem
decoding raw GLL data until I upgraded to 6.8a. Now 6.8a occasionally gets
confused and places my mobile's posit at /0000.00N/00000.00W/000/000 even
though the View Mode shows that the mobile is sending out valid data (no, I'm
nowhere near the Gulf of Guinea, HI). When this happens, it continues until I
exit and restart APRS. Then it usually starts working fine!
I haven't tried 6.8a with any other formats besides GLL. I tend to prefer GLL
over GGA or RMC for ground based mobiles. GLL is the shortest NMEA string and
creates the least clutter on the map. I don't care for the velocity vectors,
but that is just my personal preference.

| Internet: largriff@onramp.net
Larry Griffin | Internet: ab5ge@amsat.org
AX25: ab5ge@w5ero.#wtx.tx.usa.noam

329. how to subscribe aprs stuff on tapr

From: DDOBBINS@aol.com
Date: Fri, 21 Apr 1995 00:03:38 -0400
To: aprssig@tapr.org
Message-ID: <950421000323_90711182@aol.com>
Rendered body type: text/plain

Bob, how do I subscribe to APRS traffic on TAPR?

330. Re: APRS and NMEA strings

From: Larry Griffin AB5GE <largriff@onramp.net>
Date: Fri, 21 Apr 1995 07:13:33 -0500
To: aprssig@tapr.org
Message-ID: <199504211213.HAA15841@ns.onramp.net>
Rendered body type: text/plain

GJC>I'd reommend just biting the bullet and use GGA. It doesn't increase the data
GJC>much and doesn't generate the clutter (I don't like the feathers either...)
GJC>GGA is the best output I've found for vehicle location so far.

Oddly enough, I haven't had any more trouble with GLL data since I posted my earlier message! It only happened a couple of times before so maybe it won't be too big a deal. I guess I'll try GGA if I do continue having trouble with GLL. I know its only a few more bytes... sometimes I'm too much of a perfectionist, especially when its someone else having to find the bugs, HI!

 | Internet: largriff@onramp.net
Larry Griffin | Internet: ab5ge@amsat.org
AX25: ab5ge@w5ero.#wtx.tx.usa.noam

331. Help w/Motorola Card

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Sun, 21 May 1995 08:05:27 -0500
To: aprssig@tapr.org
Message-ID: <199504211303.IAA03410@home.interaccess.com>
Rendered body type: text/plain

Hi Bob , Keith and all,

Ive come across several Motorola GPS cards that I'm trying to interface with APRS. The cards are part of the CoveragePLUS Mobile packages that Motorola put out several years ago. They apparently "talk" via RS232 seial data pcall at 1-8-1-1200B-N and output the data in the following format;

*****N*****WCCSSS#

*****N=Lat
*****W=Long
CCC=Direction
SSS=Speed
#=Signal Quality

the card has a standard Motorola 10 pin connector and my limited documentation indicates that the wiring data is standard for Motorola.

Ive attempted to set them up for APRS using both MAC and DOS Basic programs with out any luck. Any one have an idea or know anything about them? If we can get them on line and running they would make great mobile units, they are mounted in a metal case that appears to be quite solid.

Looking forward to Dayton

Ed
N9LCI

"all ignorance toboggans into know"
e.e. cummings

332. APRS to Heath WxStn

From: jeff.brenton@espi.com
Date: Fri, 21 Apr 95 11:43:39 -0500
To: aprssig@tapr.org
Message-ID: <9504211143.0GH3501@espi.com>
Rendered body type: text/plain

Actually, there are two questions here. First, if you're interested in interfacing APRS to the Heath weather stations, Bob, I can supply you with the information to do it. I'm currently fine-tuning a Crosstalk Mk.4 script to download observations from the weather station every 5 minutes, post them on a computer network, then broadcast APRS-compatible observations. Unfortunately, I

don't have an extra radio and TNC to put on 145.79 yet...

Second, is the post-6.4 version of APRS capable of having the port address and IRQ specified for COM ports yet? Under OS/2, I've got 5 COM ports, but only COM1 and COM2 have "standard" IRQs... the other 3 use different IRQs, and one "odd" port, to avoid conflicts. I also have another system that uses 16 ports, all at "odd" addresses. If APRS can accept "weird" combinations, I can set it up as one task under OS/2, and still have access to other things that currently use the "standard" ports...

BTW - what's the FTP address for getting the latest version? The only one I've found so far is the 6.4b version posted on CompuServe...

Thanks!

Jeff Brenton
Chief of Weather Operations
McHenry County (IL) ESDA
KA9VNV

333. Dead Reckoning on HF

From: gpoland@aztec.asu.edu (GEORGE J. POLAND)
Date: Fri, 21 Apr 1995 11:34:31 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <9504211834.AA23399@aztec.asu.edu>
Rendered body type: text/plain

Bob,

Thanks for the comments on HF dead reckoning. I finally got it to work reliably. My problem was not the wrong use of zulu times, but was due to lack of patience while waiting for the Hf DEAD RECKONING to start working. I find that it takes quite a bit longer for the HF mode DR to start than on VHF, probably due to the change in timing parameters and or selection of the SPEED prompt entry. Anyway all is functioning as advertised, (vers 6.8a) Thanks again.

73, George - W8FWF

334. General APRS comments/?'s

From: jeff.brenton@espi.com
Date: Fri, 21 Apr 95 14:25:29 -0500
To: APRSSIG@TAPR.ORG
Message-ID: <9504211425.0K9IE05@espi.com>
Rendered body type: text/plain

Spending some time reading through the APRS README directory today. Decided to collect thoughts and post them for everyone to comment and/or answer.

TELEMETRY.TXT talks about using the Micro.Interface.Module for telemetry; has there been any thought to implementing one as a transmit-only TNC for attachment to the Ultimeter II? One of our projects for MCESDA is to get a remote weather station set up in each township in the county, which would ONLY beacon the weather. We're even looking at putting all of them on a separate frequency from "normal" APRS, and just repeat their information on APRS after collection at the central site. The MIM would SIGNIFICANTLY reduce the complexity and cost of this, unless it is outrageously priced... no price is mentioned in the file.

The HSP circuit in GPS.TXT is neat - I'm going to try to get one put together for a trip to California next week, where I will be showing off some aviation moving map stuff, and the APRS stuff might be of interest to the group, too... With 12 hours in flight enroute to play with it... It will hopefully be compatible with using two computers to monitor the output of the GPS, since the aviation moving map will also be listening (it runs on HP palmtops).

Have you thought about a format for integrating winds aloft into this system? For example, as a pilot, I'd love to have a station uploading the winds aloft for the local area every half hour or so (forecasts change every 12 hours, but can be amended), and I can give real-time wind/temperature reports. Winds Aloft (FD) are given in a fixed format, with temps included, at 3000 foot intervals.

Coincident with the trip to CA, I see how to embed symbols like VORs in specific maps, but... what's the best way to load a database of VORs that will show up on any map viewed, just like they were "stations heard"? Just use a "generic callsign" in a .BK-format file, and load that?

That's all for now - I'll be monitoring the wire. Thanks!

Jeff Brenton
Chief of Weather Operations
McHenry County (IL) ESDA
jeff.brenton@espi.com

335. New Ohio Maps -

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Fri, 21 Apr 1995 21:53:52 -0400 (EDT)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9504212152.A4896-a100000@acme>
Rendered body type: text/plain

Just got done killing another month of nights and weekends and polished off OHMAPS03.ZIP. The file is now up to 89 Ohio maps. One can now travel from Cleveland down to Cincy, then up to Toledo, on a 4 mile range. (Except for a small patch NE of Columbus).

These maps include the work of KG8GE & KB8DP in the Marion area, as well as WB4APR's OHBooth.Map (he for got to mark the restrooms in Hara).

The file is available from my LLBBS (see phone number below) as well as ARN BBS in Md. (If I can get on to upload tonight - Fri.)

Hope to see ya all at Dayton - I'll be easy to spot - ye middle aged guy with a pot gut, glasses, my call sign on my hat and a handhlded on my belt. Can't be to many people fitting that discription there ;-)

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address: KB8JX0@W8CQK.#CMH.OH.USA
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 137th most knowledgeable person about A.P.R.S.

336. APRS Beacons by non-APRS stations

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Fri, 21 Apr 1995 19:42:33 -0700
To: aprssig@tapr.org
Message-ID: <199504220242.TAA16273@kilroy.jpl.nasa.gov>
Rendered body type: text/plain

Could someone send me some information on how to put APRS position information into the BTEXT of BBSSs, NODES, etc.? I thought I had something, but I cannot find it. I did not find it reading through the README files. There was a portion that said it could be done, but not what the different 'codes' are for signifying what kind of station it is. Also, the README implies that the !xxxxN/xxxxW can go _anywhere_ in the BTEXT, but so far it only seems to work if it goes at the beginning. Can APRS pick up grid square data if it is enclosed in [square brackets] _anywhere_ in the BTEXT?

-Greg

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

337. Test

From: mxdp!twade@mxdp.afsv.af.mil (Tom Wade)
Date: Fri, 21 Apr 95 22:38:31 CDT
To: aprssig@tapr.org
Message-ID: <9504220338.AA15809@mxdp.afsv.af.mil>
Rendered body type: text/plain

I haven't rx anything for awhile. Just checking the mail out. Sorry for wasted space.

Tom - N9CDQ

338. Autocad software

From: wnolle@fly.HiWAAY.net
Date: Sat, 22 Apr 95 01:31:00 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950422013641.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

Has anyone out there used Autocad for making maps, and then used the conversion software by Jim Krist {KG8GE} I'm interested in going that way but would like to

hear from someone that has used it. I know the software will just do the conversion i believe, if this is the case will any version of autocad work?. I haven't seen the Author on the Sig. Any help will be appreciated.

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|      KE4EER      |
| PKT:KE4EER@K4BFT.#NOAL.AL.USA.NA |
|      [EM64sx]     |
|      APRS 145.790Mhz |
|      3458'34N-08629'53W |
|      Coordinated 100W Digi Site |
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      ( )      ) /
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      \_)      \_)
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339. National APRS freak

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>
Date: Sat, 22 Apr 1995 00:22:42 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <9504220022.aa12575@comix.Santa-Cruz.Ca.US>
Rendered body type: text/plain

I got your packet note about co-ordination and the national APRS frequency. Bob W76FRI is no longer the 440 co-ordinator but is still involved in 1296Mhz. We've been on 440.925+ for about 18 months with almost no interference. The only thing we've ever heard is one of the southern Calif repeater outputs on our input when the skip was in last summer. The application has been in the works for several months now.

Last I heard, NARCC does NOT do packet frequencies and leaves that to NCPA. Incidentally, George K6TAM is on the NCPA board.

I like the idea of a national APRS frequency. However, there are LOTS of VHF simplex frequencies available. While I don't like the way the DX packet clutter grabbed a freq, they were at least willing to move around and did so 3 times.

The use of a single national aprs frequency is going to get abused. Already, we have users in the bay area running keyboard-to-keyboard chat session during commute hours, mobiles beaconing their location every 30 seconds, and stations using a digi path of relay,wide,relay,wide,wide,wide. (I really saw this one go by). Every beacon has 6 duplicates.

I'm not too good with the packet politics and will leave that to those that enjoy that kind of bickering. The last time we fired up the ELINT system overlooking the SF/Monterey bay area, the VHF (144-148) showed .05% utilization and UHF (440-450) showed .01% utilization over a 72 hr period. This was about a year ago and is probably higher today. Typical utilization in the commercial and public safety region 150-175 VHF region runs about 5%. I forgot what the UHF region reported. The ham bands are literally empty.

Midnight visitors in the office. The price of being a computer geek. Groan...

--
Jeff Liebermann Box 272 1540 Jackson Ave Ben Lomond CA 95005
408.336.2558 voice wb6ssy@ki6eh.#nocal.ca.usa wb6ssy.ampr.org [44.4.18.10]
408.699.0483 digital_pager 73557,2074 cis [don't]
jeffl@comix.santa-cruz.ca.us scruz.ucsc.edu!comix!jeffl

340. Kam Plus & APRS

From: BillWB6LPG@aol.com
Date: Sat, 22 Apr 1995 11:54:38 -0400
To: aprssig@tapr.org
Message-ID: <950422115438_92284111@aol.com>
Rendered body type: text/plain
Subj: Kam Plus & APRS
Date: 95-04-22 12:45gmt

From: billwb6lpg@aol.com
To: aprssig@tapr.org

APRS user Bill/KB6LFM & outstanding Commtruck "RADIO FLYER" utilizes GPS/APRS however unable transmit HF from APRS commands while in the program, using his Kam Plus., with Ver6.5 and up now V6.8a. All same/same as below.
Setup as fol: MYG - GATE

STR - \$7E/\$7C ((~/|))
PORT - VHF..... (To force HF xmit- changed to HF)
S - FREE BYTES 2943 A/H stream - IO DISCONNECTED

Boots-up APRS , all normal and in VHF mode. Changes Unproto path to "GATE, WIDE/APRS VIA Digil. Types C-H (Controls -HF) and 2nd XMIT line at bottom goes from VHF to HF , however Kam+ will only transmit on VHF side, anything sent from his keyboard. A GPS mobile with GATE in path is correctly GATED from VHF to HF by his Kam+. Yet from his keyboard he cannot transmitt on his HF side.

Retyping C-V (Controls-VHF) the 2nd bottom XMT line shifts window from HF to VHF and keyboard transmits normally on VHF side, as it should. Unproto path not changed, and no VHF WARNING BOX (Gate in VHF path) is displayed. VHF side uses Digil path as is normal for VHF side.

By changing PORT to HF and using ~A and |A can lock into sending on HF side only, won't go to send on VHF side, yet GATES HF to VHF..

Anybody any ideas... ?????? Have done RESET, but no help. Intend do complete (open Kam box) and due RESTORE command.

I have found using some other programs in computer changes paramaters of Kam, this possible clue but cannot pin-point which one is causing above, contrar to APRS use.

Has numerous other fancy programs in computer, including PC Tools, Dos V5.0...

Anybody have any clues, ideas , thoughts, suggestions. Only saw one other msg from 9 area user with same problem. ????

My home QTH Kam+, set up as above, no such problem, Go HF xmit on keyboard command C-H and back to VHF with C-V command. No Unproto path change, only still get large WARNING box on VHF side, unless change the VHF Unproto path. APR/Bob to fix he says.

73's and Thanks for any help suggestions. Bill/KB6LFM @ W6PW.#NOCAL.CA. USA.NOAM..

73'S & Enjoy, billwb6lpg@aol.com or @KA6EYH.#NOCAL.CA.USA.NOAM.

341. Everything but restrooms

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sat, 22 Apr 1995 15:32:02 -0400 (EDT)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9504221502.A3090-g101000@acme>
Rendered body type: text/plain

I don't know how many of you all can retrieve files that are attached to these messages. If you can, then the attached file is basically a 1.5 mile range street map of the are around Hara from the 1:100,000 CD-ROM , combined with the booth map by WB4APR.

How accurate is it ? - Well, how accurate are most GPS's with S/A cranked up. I would not use it to find the restrooms in the dark, but, hey, it gives yu an idea of how much detail one can get on maps.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address: KB8JX0@W8CQK.#CMH.OH.USA
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 137th most knowledgable person about A.P.R.S.
[Attachment: OHHARA2.MAP; application/octet-stream; 27,909 bytes]

342. Wx info....

From: paul@paccomm.com
Date: Sat, 22 Apr 95 08:04:01 UTC
To: aprssig@tapr.org
Message-ID: <2968@paccomm.com>
Rendered body type: text/plain

Seems like Wx info is still the burning topic in APRS.

Jeff Brenton raised the issue of winds aloft.

Seems like the 3D display I asked Bob to do for gliding would be ideal for this. The subject of the Doppler radar stuff seems to have gone quiet..... Anybody getting info to Bob on this?

The local Pinellas county gurus sed they have NWS data coming out on the local system. Much as I've stared at the APRS monitoring stn here I haven't seen any of it yet (?????????).

I'm sure Bob and I will be rubbing shoulders and comparing new ideas next weekend. Any other thoughts, please send them to me or Bob.... Putting the ULTIMETER-II with the single chip telemetry module would be neat, but not practical on an existing APRS channel (no DCD of data is done, so it would QRM stuff something rotten). PacComm has some other stuff up it's sleeves in this regard, so stay tuned..... Anyone got any idea what frequency the ICW wx stations are on????? These are on every swing bridge up and down the ICW. Monitoring these on a separate receiver and converting to APRS format would be very useful..... Best Regards, Paul

Paul Evans, W4/G4BKI paul@paccomm.com
+1 (813) 874-2980 Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm.
I don't surf the internet, I SAIL IT!
Captain of S/V "Spindrift" (Catalina 36), Dunedin, FL.
PacComm Packet Radio Systems, Inc., 4413 N. Hesperides St., Tampa, FL 33614-7618

343. Re: [APRSSIG:893] APRS Beaconing by non-APRS stations

From: Richard Amirault <amirault@max.tiac.net>
Date: Sat, 22 Apr 1995 16:25:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9504221625.B5718-0100000@max.tiac.net>
Rendered body type: text/plain

On Fri, 21 Apr 1995, Gregory R. LaBorde wrote:

> Could someone send me some information on how to put APRS position
> information into the BTEXT of BBSs, NODES, etc.? I thought I had something,
> but I cannot find it. I did not find it reading through the README files.
> There was a portion that said it could be done, but not what the different
> 'codes' are for signifying what kind of station it is. Also, the README
> implies that the !xxxxN/xxxxW can go _anywhere_ in the BTEXT, but so far it
> only seems to work if it goes at the beginning. Can APRS pick up grid
> square data if it is enclosed in [square brackets] _anywhere_ in the BTEXT?
>

I'm using 6.8 and if you look in the PROTOCOL & SYMBOLS files in the readme directory it should tell you all you need to know.

Good luck

Richard N1JDU in Boston
amirault@tiac.net

344. AFOS data stream

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sat, 22 Apr 1995 17:11:13 +0100 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Cc: Paul <paul@paccomm.com>
Message-ID: <Pine.SUN.3.91.950422170105.7154A-100000@pinegov>
Rendered body type: text/plain

Re: Weather data on APRS

Paul, don't strain your eyes. The RACES radio room is being rebuilt at the EOC and the WX data source is temporarily disconnected. When it was up, it was not being digipeated.

However, we had a meeting today with the Skywarn people from Pinellas, Hillsborough and Manatee County today. I have been advised the AFOS feed will be established prior to the start of hurricane season, and Manatee County will be donating a VHF radio and a TNC to establish a full time APRS station at the NWS Office in Ruskin.

Re: Doppler Radar pictures

Actually, I hadn't touched on that yet because the WSR-88D at Ruskin has not yet been commissioned. It will be commissioned on April 29, 1995, at which time the FAA will attach its feed line and the KTBW hourly radar summaries will return to public access via DUATS, Compuserve, Internet, etc.

Since the FAA/NWS use a grid system for composite radar data, I think it would be a great idea.

PS...Once KTBW is on the air, we hope Manatee, Sarasota, Pasco, and Polk Counties will join us on APRS. Current plans include moving the WIDE on

the Clearwater Courthouse to the top of Majestic Towers in South Pasadena..
That would be 225 ft up.

73 de KD4UYR.

345. APRS & Skywarn criticism-help!

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Sat, 22 Apr 1995 17:20:46 CST
To: aprssig@tapr.org
Message-ID: <0098F45D.DE64E99C.79@INS.INFONET.NET>
Rendered body type: text/plain

I rcvcd the following critique abt the use of APRS.

>Bill, I guess I can't understand how a "BEACON" of information sending thru
>digis or nodes are going to work. You will not have any idea whether any
>station received the information or not as there is no acknowledgements.
>However, if you set up a BBS to forward the info into the ESDA coordinators
>personal mailboxes, you would know that they were received. Dont send
>the info to any BBSs, just forward it directly to the ESDA people.
>You are sold on APRS but trying to start another network strictly dedicated to
>APRS is not what most folks are interested in, they still are trying to build
>the backbone up. Down this way, the preferred type of operation would be
>to take all forwarding off of 5.01 not start up another network of APRS
>stations. All of this for the one bad month a year of weather, doesn't make
>sense to me. The NWS can come right down the backbone, connect directly to
>nodes and right into the ESDA coordinator's mailboxes and leave the info,
>not hope that there stations see the beacon of information that would not
>be ack'ed back.
>I will see if anyone is interested in attending on the 30th
>but it sounds like there will be NO discussion on what's the best, it sounds
>like it has already been decided.

You know, your first message to me about
this APRS and 5.79 was just last week, up until then NO one had discussed
this with ANY downstate ESDA coordinators in Hancock or Warren county, now
all of a sudden it is said we not only need nodes, but they have to be on
5.79...Lots of equipment on 5.79 just for the weather? HMMMMMMMMMM.
73 Frank

The guy has some valid points that need to be addressed!!!!

Any ideas?
73, Bill

346. Ultimeter+MIM

From: jeff.brenton@espi.com
Date: Sun, 23 Apr 95 00:43:21 -0500
To: aprssig@tapr.org
Message-ID: <9504230043.010JS01@espi.com>
Rendered body type: text/plain

On 22 April, Paul Evans mentioned that the MIM circuit doesn't do DCD, and
would cause QRM. Hmm... the doc file said that it had a line that could or
should be attached to the receiver, to detect when the frequency was busy;
not as good as a true DCD from a modem, but that is how a lot of simple TNCs
seem to work. Anything heard means "frequency busy, keep quiet".

While I like the PacComm solution, for the situation I'm talking about, it's
vastly overkill. As I mentioned, we're looking into putting our "network" of
such automated stations onto a separate frequency, probably commercial or
public service band, because there is some information we want to collect
that isn't exactly for public consumption - namely, water levels at all our
flood gauges.

[That particular application, BTW, would probably involve a computer at the
site to take the gauge readings, so having a full TNC makes sense there]

I was introduced to APRS strictly because of its weather aspect. In fact, it
wasn't until I started reading the documentation that I discovered that
wasn't the primary purpose it was designed for... Or, was it?

347. Re: [APRSSIG:896] National APRS freak

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>
Date: Sun, 23 Apr 1995 00:36:46 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <9504230036.aa20244@comix.Santa-Cruz.Ca.US>
Rendered body type: text/plain

> Hi Jeff,
> On Sat, 22 Apr 1995, Jeff Liebermann wrote:
> > I see how much damage I've done.
> No damage here ;-)

So that everyone knows what happened, I goofed and replied to a message posted to the mailing list without looking at how my mailer addressed the reply. Instead of the author, it went to the mailing list. Sorry about the mess.

--
Jeff Liebermann Box 272 1540 Jackson Ave Ben Lomond CA 95005
408.336.2558 voice wb6ssy@ki6eh.#nocal.ca.usa wb6ssy.ampr.org [44.4.18.10]
408.699.0483 digital_pager 73557.2074 cis [don't]
jeffl@comix.santa-cruz.ca.us scruc.ucsc.edu!comix!jeffl

348. PROB Ver. 6.8/6.8a

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>
Date: Sun, 23 Apr 1995 08:08:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9504230822.A28377-a100000@acme>
Rendered body type: text/plain

Have noted the following problems with ver 6.8/6.8a.

1. DXcluster Mode works intermittently. On 6.8 I could not get it to work at all and on 6.8a it worked one time (I have cannot get it to work again!!). Data is received but calls are not placed on the map. The P-screen shows all lat/long as nulls (000s). The alt-ALL command will plot the entire callsign database.

2. One user reported an intermittent problem, starting with Ver. 6.8a, with the software failing to position GLL tracks. This problem was observed on version 6.8 - where the GLL string would be received and displayed at the bottom of the screen but not placed on the screen (e.g, POS 2220117>/RAW - would appear in the blue box). The GGA and RMC sentences seem to track OK. This might relate to what was reported on Ver. 6.8a.

349. Advice on Garmin GPS-40

From: dhenders@InterServ.Com
Date: Sun, 23 Apr 95 07:07:22 PDT
To: aprssig@tapr.org
Message-ID: <9504231407.AA08296@ InterServ.Com>
Rendered body type: text/plain

Hi fellow SIGgers:

I am considering buying a Garmin GPS-40 not only for APRS use but also for hunting and fishing.

Has anyone used this unit for these multiple uses and what is your opinion?

I notice that the unit does not have a "pop-up" type antenna but you must buy separate antenna. How does the unit work without an antenna added. Is it ok in the woods as well as out in the open? Is the accuracy of the "fix" effected by having an outside antenna attached?

Any opinions would be appreciated. You may e-mail me direct if you don't wish your opinions to be broadcast by the SIG.

Thanks for your help. 73.

Dave, N3EOY

350. APRS Criticism for SKYWARN use

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sun, 23 Apr 1995 10:37:37 +0100 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Cc: billh@INS.INFONET.NET
Message-ID: <Pine.SUN.3.91.950423103509.8649A-100000@pinegov>
Rendered body type: text/plain

Re: Bill's message on the criticism he is getting for APRS and SKYWARN use

When I saw your message, I almost fell out of my chair laughing. The argument you are getting is IDENTICAL to the one we went through over a year ago when I first suggested scrapping the old message forwarding system for something new...even the frequency is the SAME!

Anyway...try these replies against their arguments and you may very well get them to see the light:

1. APRS sends bulletins in real time direct to the user, sounding a tone at the same time....one packet burst is received by all... less channel loading.
2. APRS allows for real time dead reckoning of all severe storms and tornados as displayed on local NWS radar or based upon NWS forecast data. Also has capabilities of ranging, tracking, or identifying storm shelters, evacuation zones, and supply depots, traffic posts, you name it, you can track it!
3. APRS allows for the graphical identification of all storm spotters and their locations....When asked for conditions at a specific location, the net control operator can look at the map and know who to call on the radio.
4. APRS can graphically display watch boxes and warning boxes.
5. APRS can monitor as many automatic weather stations as you want to install, and alarms can be set to automatically alert ALL of the monitoring stations, AT THE SAME TIME.
6. APRS messages ARE acknowledged....the ACK packet is sent from the receiving station regardless of weather the operator is at the keyboard.
7. APRS system can be monitored by non-hams at NWS and EOC offices. Any scanner can be used as a receiver.
8. APRS can be set up with an AUTOMATIC HF GATEway for nationwide coverage.
9. Nothing in APRS stops you from having a VHF-VHF node on the frequency to connect into the existing BBS system.
10. Nothing in APRS stops you from doing a connect or having a personal mailbox on the frequency.
11. NWS bulletins can be fed directly onto the APRS frequency and displayed via the All Beacons screen. The National Hurricane Center will be doing this beginning this coming season... If that works, perhaps SELS will consider the same.
12. The only special equipment required for APRS to work at its full potential is an IBM PC or MacIntosh computer to run the program, everything else is the same.
13. Non IBM/MacIntosh users can still read the bulletins in Unproto monitoring mode and they can still address stations using the KA0BCD : Message mode in unproto.
14. One, well placed, high altitude digipeater is all you really need.
15. The 145.79 frequency is being pushed nationwide since it is NOT cluttered with other packet traffic. Use of an existing packet net for emergency communications does not work. No way to stop hams not involved in the emergency from downloading the last six months of the AMSAT journal while your trying to pass priority traffic!
16. Message forwarding systems do NOT guarantee receipt of the message, they only guarantee the message was received at the first message server. If you don't believe me, send me a packet message to: KD4UYR @W4DPH.#CLW.FL.USA.NA....put in the exact time you sent it... IF I get it....I will reply with the time lag!
17. Use of message servers REQUIRES the recipient to LOOK FOR the message on the BBS or PBBS. APRS messages are there as soon as they are sent.

Thats about all I can think of right now but I am sure there are more reasons to use APRS instead of the conventional store and forward

system.

Good Luck!

73 de Kevin Heyboer KD4UYR
Director/Pinellas Skywarn
Clearwater, Florida
kheyboer@co.pinellas.fl.us
KD4UYR@W4DPH.#CLW.FL.US.NA

Remember: THERE ARE NO BASEMENTS in Florida!

351. Garmin 45 and Altitude

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Sun, 23 Apr 1995 10:50:56 -0400
To: aprssig@tapr.org
Message-ID: <9504231453.AA10960@netaxis.com>
Rendered body type: text/plain

Bob, there seems to be a problem with the math used in 6.8a to convert the Metric Altitude numbers to feet. When I check the current read out on the Garman against the screen in APRS 6.8a, APRS reports a lower altitude. I run the Garmin 45 in Simulator mode so I can preset the altitude and other params to what I want. This makes check out easy when you can't get real Sat signals. BTW 6.8a is behaving better with the Garmin-45, but there are still alot of times that APRS reports good GLL reads but nothing is posted to the map. Keep up the good work....

//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

352. Re: [APRSSIG:906] Advice on Garmin GPS-40

From: miles@MAIL.UTEXAS.EDU (Miles Abernathy)
Date: Sun, 23 Apr 1995 09:39:41 -0500
To: aprssig@tapr.org
Message-ID: <v01520b00abc015308cb8@[128.83.111.115]>
Rendered body type: text/plain

>I am considering buying a Garmin GPS-40 not only for APRS
>use but also for hunting and fishing.
>
>Has anyone used this unit for these multiple uses and what
>is your opinion?

The advantage of the Garmin GPS-45 over the 40 is that the 45 can accept input voltages of 5 to 40 volts DC (GPS-40 has a much narrower range, not even up to 13.8 volts), and that it can accept an external antenna (BNC connector). The power / data connector lists for \$30.

The GPS-45 is waterproof, and the GPS-40 probably is also. Both are very small.

Recently, West Marine had the GPS-45 on sale for the same price as the GPS-40, \$299.99. Sorry, I don't have their phone number.

Both units evidently use the same difficult-to-learn, easy-to-screw-up command set. West Marine is reported to sell a third-party book on how to program the unit(s).

Good luck!

Miles Abernathy, University of Texas, POB 7580, Austin TX 78713 U.S.A.
miles@mail.utexas.edu N5KOB tel. 512-471-6521 Hook 'em Horns!

353. PCMCIA & GPS

From: BillWB6LPG@aol.com
Date: Sun, 23 Apr 1995 12:46:30 -0400
To: aprssig@tapr.org
Message-ID: <950423124629_93184466@aol.com>
Rendered body type: text/plain

To: bruninga@greatlakes.nadn.navy.mil (Robert Bruninga)
aprssig@tapr.org

With most all LapTop computers now offering PCMCIA card slots and only one serial port, has anyone considered adapting APRS for use with any type of PCMCIA card.

Know Trimble has a Mobile GPS PCMCIA GPS Sensor and mailing you their brochure on the sensor. Mentions GPS Demo Program and expensive Developer's Software Toolkit. (\$995.00).

>From Tigersoftware catalog mentions operates with City Streets for Windows in a laptop with the Trimble PCMCIA card.

With the gathering of intellectuals at Dayton, APRS/PCMCIA use's should be considered for future expansion.

I wrote to Trimble on subject on April 1, but no reply as yet.

Now that Dayton is upon us, enlighten all on the mystery Readme.DIR file VOXRPTX.TXT .. What's this tone encoded GPS APRS MIC Encoder all about that us non Dayton attendees have so anxiously been awaiting. Little more pre info desired. Hi...Have fun at Dayton...
73's @ Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA. or billwb6lpg@aol.com

354. ????????

From: wnoille@fly.HiWAAY.net
Date: Sun, 23 Apr 95 14:31:07 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950423143209.wnoille@wnoille.HiWAAY.net>
Rendered body type: text/plain

Have not been receiving any APRSSIG messages what's happening. I'm really missing them.

```
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      /  \  \
      | \ | (o)(o) | / |
-----o00o-----oo-----o00o.-----
      KE4EER
      PKT:KE4EER@K4BFT.#NOAL.AL.USA.NA
      [EM64sx]
      APRS 145.790Mhz
      3458'34N-08629'53W
      Coordinated 100W Digi Site
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355. Re: [APRSSIG:910] PCMCIA & GPS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sun, 23 Apr 95 20:57:33 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.798685053.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The MAC version of APRS, (MacAPRS) has supported PCMCIA GPS units since the PowerBook 500 series PCMCIA adapter came out.. There are two major PCMCIA GPS units out there, Magellen, and Rockwell. Rockwell makes two versions, one is NMEA (this is the newer unit) and the other is Rockwell Binary. I support both types (the NMEA and the BINARY).

If the Interrupts are changeable, the NMEA GPS should be usable on a PC laptop WITHOUT any change from Bob, since these units just act as serial port devices.

Keith Sproul

Keith Sproul
Student Housing Network Coordinator
Rutgers University Computing Services
<http://www-ns.rutgers.edu/~ksproul/>

Ham Radio: WU2Z
ksproul@noc.rutgers.edu
908 445-3695 Work
908 821-4828 Home

356. TAPR @ Dayton '95

From: Greg Jones <gjones@tenet.edu>
Date: Sun, 23 Apr 1995 21:39:38 -0500 (CDT)
To: bbssig@tapr.org (BBS SIG mailing), netsig@tapr.org (NETSIG mailing),
hfsig@tapr.org (HF SIG mailing), aprssig@tapr.org
Message-ID: <199504240239.VAA14970@Alice-Thurman.tenet.edu>
Rendered body type: text/plain

TAPR Activities at Dayton '95

Dayton is almost upon us and here is the list of TAPR activities and events happening during Dayton. We hope to see lots of folks around and please stop by the TAPR booth and say hi!

TAPR Booth

The booth is located at the same location as the last several years. We should have most items and kits available and another big membership offer will be available to new members! Come by and say hi to the TAPR gang and if you want, help out behind the table. The more the merrier.

Regional Groups Note: If you are with a regional digital group, please stop by and chat with Greg Jones, WD5IVD about how TAPR can do things with your regional group. There will also be a place at the booth to place regional materials, so if you have something to hand out, drop it off.

Friday - TAPR Digital Forum

1:00pm - 1:45pm	Introduction to Digital Communications Greg Jones, WD5IVD
1:45pm - 2:00pm	TAPR Update John Ackerman, AG9V
2:00pm - 2:30pm	Layer 1 and Radio Issues Mel Whitten, K0PFX
2:30pm - 3:00pm	TAPR/AMSAT DSP-93 Project Update Bill Reed, WD0ETZ
3:00pm - 3:30pm	TCP/IP Issues and Trends Barry McLaren, VE3JF
3:30pm - 3:45pm	BBS Issues and Trends Barry Buelow, WA0RJT
3:45pm - 4:00pm	HF Digital Communications Trends
4:00pm - 4:30pm	APRS Bob Bruninga, WB4APR
4:30pm - 5:30pm	TAPR APRS SIG Keith Sproul, WU2Z

PACK*BASH T95 - Friday Evening

A new event for the digitally-inclined ham, featuring:

- * Buffet dinner (with cash bar)
- * Nationally-known speakers holding forth on current topics:
 - * Bob Bruninga, WB4APR (Author of APRS)
 - * Dewayne Hendricks, WA8DZP
- * Prize raffle
- * Lots of Informal Discussion
- * TAPR NET SIG and a second APRS SIG meeting

When?

Friday evening, April 28, 1995
Dinner starts at 7:00 PM, speaker at 7:45 PM
Everyone is invited to attend, but dinner is only available to those with reservations.

Where?

TJ's Restaurant, 2462 Dryden Road, Dayton
(Dryden Road exit, I75 -- across from the Holiday Inn)
(Maps available at the TAPR booth)

How?

Dinner requires advance registration (by April 24th)
Come by the TAPR booth at Dayton to check on additional space.
Everyone is invited to come, but dinner is only available to those with reservations.
Dinner cost is \$16.00 per person, tax and tip included.

To register, contact:

TAPR (tapr@tapr.org)
Phone: (817) 383-0000, Fax: (817) 566-2544

Who?

PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet Radio, the national leader in digital communication -- and the Miami

Valley FM Association, Dayton's packet radio club.

(This is a replacement of the McNasty's event)

Saturday - BBS SIG Meeting

The TAPR BBS SIG will meet Saturday night at 7:00pm

Where: Radison Hotel - Premier Room
The Radison is located near the intersection of I-75 and
Needmore Rd. This is not far from Hara Arena.

New feature this year - CHAIRS !!!

This is a great opportunity to meet with fellow BBS Sysops and discuss
current events and plans for the future. TAPR membership is not a
requirement, this event is open to the public.

For more information, stop by the TAPR booth at HARA.

Tucson Amateur Packet Radio (tapr@tapr.org)
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000

357. Re: [APRSSIG:899] Wx info....

From: JKANDEL@miami.ir.miami.edu
Date: Mon, 24 Apr 1995 08:54:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HPPMBA6HQA4L90S@miami.ir.miami.edu>
Rendered body type: text/plain

Paul,
I'll try and find out about the wx stations on the ICW at the National HurricaneCenter.

BTW - Did the Japanese docs make for good bed-time reading?

73,
Joel, KI4T

P.S. Is that Spindrift or Spendthrift?

358. Re: [APRSSIG:901] AFOS data stream

From: JKANDEL@miami.ir.miami.edu
Date: Mon, 24 Apr 1995 08:57:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HPPMET4EJCA4L90S@miami.ir.miami.edu>
Rendered body type: text/plain

Contact me at jkandel@gate.com, and we can discuss how all of this can hook up to the APRS station we're
putting in at the National Hurricane Center.

73,
Joel, KI4T

359. Re: [APRSSIG:906] Advice on Garmin GPS-40

From: JKANDEL@miami.ir.miami.edu
Date: Mon, 24 Apr 1995 09:01:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HPPMI8L63YA4L90S@miami.ir.miami.edu>
Rendered body type: text/plain

I dont think the antenna is long enough on the Garnin 40 for fishinging. A UHF whip might work better.
Dont the animals have enough of a disadvantage without navigating through the woods with GPS?

Joel, KI4T

360. UNSUBSCRIBE PLEASE

From: Jose Ramon Rodriguez Dolara <joserra@eurielec.clubs.etsit.upm.es>
Date: Mon, 24 Apr 1995 13:50:31 +0100
To: aprssig@tapr.org
Message-ID: <199504241250.NAA00840@eurielec.clubs.etsit.upm.es>
Rendered body type: text/plain

We have changed our E-mail Addr. Please unsubscribe
joserra@eurielec.clubs.etsit.upm.es from list
tnx,s

361. Re: [APRSSIG:889] APRS to Heath WxStn

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 24 Apr 1995 09:45:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950424094310.19898B@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 21 Apr 1995 jeff.brenton@espi.com wrote:
>
> Actually, there are two questions here. First, if you're interested in
> interfacing APRS to the Heath weather stations, Bob, I can supply you with the
> information to do it. I'm currently fine-tuning a Crosstalk Mk.4 script to
APR REPLY: Maybe someday...

> Second, is the post-6.4 version of APRS capable of having the port address and
> IRQ specified for COM ports yet? Under OS/2, I've got 5 COM ports, but only
APR REPLY: No. And no change in the plans either. APRS uses COM1/2
only or 3/4 as long as they use the SAME IRQ as 1/2. Sorry.

362. Re: [APRSSIG:891] General APRS comments/?'s

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 24 Apr 1995 09:57:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950424094724.19898C@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 21 Apr 1995 jeff.brenton@espi.com wrote:
> TELEMETRY.TXT talks about using the Micro.Interface.Module for telemetry;
> has there been any thought to implementing one as a transmit-only TNC for
> attachment to the Ultimeter II?
>
APR REPLY: Yes! Its a beaut'!. A 5 foot PVC pipe with U-II annmometer on
the top, 19 inches of NICADS, MIM Module an Agrelo XMTR below that and a 19
inch antenna dangling at the bottom. A solar panel on the side completes
the STAND-ALONE WX XMTR! No wire, no power, no nuttin!
>
CAVEAT: It transmits, but not WX data yet. Havent written the unique WX
parsing code yet. It will be on display at Dayton...

> The HSP circuit in GPS.TXT is neat - I'm going to try to get one put
> together for a trip to California next week, where I will be showing off
>
APR REPLY: Be prepared to mess with voltage levels unique to your GPS and
your PC. The HSP schematic I deelped assumed a +5/0 volt NMEA signal.
The GARMINs now are putting out +2/-2 volts and there may not be enough
positive excursion to make the HSP and the PC happy. Look at the data
going into the PC on a scope and be sure you are getting acceptable data
levels. Remove the extra emitter dropping diodes to help...

> Coincident with the trip to CA, I see how to embed symbols like VORs in
> specific maps, but... what's the best way to load a database of VORs that
> will show up on any map viewed, just like they were "stations heard"? Just
> use a "generic callsign" in a .BK-format file, and load that?
>
APR REPLY: Since loading a BK file wipes out wnything else on your
screen, a better way is to make the file a .HST file. Then, anytime you
want to see VORS, simply replay the file. The VORS will appear until you
erase or re-draw the map. But they will not consume P-list space

363. Re: [APRSSIG:893] APRS Beaconing by non-APRS stations

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 24 Apr 1995 10:03:47 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950424100107.19898D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 21 Apr 1995, Gregory R. LaBorde wrote:
> Could someone send me some information on how to put APRS position
> information into the BTEXT of BBSs, NODES, etc.? I thought I had something,
>
APR REPLY: Format is in PROTOCOL.txt and symbols are in SYMBOLS.txt

> implies that the !xxxxN/xxxxW can go _anywhere_ in the BTEXT, but so far it
> only seems to work if it goes at the beginning. Can APRS pick up grid

364. Re: [APRSSIG:905] PROB Ver. 6.8/6.8a

APR REPLY: Hummh, I though all was fixed in 68a? Anyone else?

be removed.

Turns out after analyzing the circuit and talking with PacCom, that my Compaq LIT Lite 25 laptop does not provide a voltage on pin 6. This voltage is "borrowed" to power the HSP circuit. I powered the circuit from pin 6 of the TNC (on a 9 pin port) and it worked great!

Re: UIploading and Downloading:

I use the shareware program GARDOWN4.EXE, by Mike Montgomery to do this. It will use Comm port 1 or 2 on a PC to Download Waypoints, Tracks, and Routes and allows uploading of Waypoints!

It can be gotten from my FTP site at <ftp.mindspring.com/users/~rwf/aprs>

I also have aprs68a there as well as some other files.

See y'all at Dayton. Will be APRS/GPS active on 5.79

Ralph Fowler
Atlanta, GA
N4NEQ

<http://www.mindspring.com/~rwf>
for my ATV home page
[Attachment: HACKING.TOC; application/octet-stream; 3,156 bytes]

366. Re: [APRSSIG:922] Re: General APRS comments/?'s

From: rwf@mindspring.com (rwf)
Date: Mon, 24 Apr 1995 11:44:33 -0500
To: aprssig@tapr.org
Message-ID: <199504241545.LAA14407@dylan.mindspring.com>
Rendered body type: text/plain

A thousand pardons!

I just sent a reply out to the Group about the Garmin GPS 40/45. I accidentally attached a file to the end. It was something I had saved in a folder for work. It was intended to be a copy of a file with the Garmin cable schematic.

I am *not* trying to mess with your minds!

Sorry if it caused any costernation to any of you!

Ralph

367. Re: [APRSSIG:921] Re: PROB Ver. 6.8/6.8a

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>
Date: Mon, 24 Apr 1995 11:58:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9504241127.A23507-a100000@acme>
Rendered body type: text/plain

DXcluster is now working with Ver 6.8a. I made sure that the APRS directory was in my PATH statement (that did not do it but its a good idea) and then placed the APRS/SYSTEM in an APPEND path in my autoexec.bat file. Apparently this enablaes programs to open data files in specified directories as if these files were in the current directory. This seems to have fixed the problem!!!! I am using MS-DOS Ver 5.0 and run APRS from a "stacker volume" designated drive "D:".

Hope this helps (and I hope it is in fact the cure).

368. DAYTON map OHBOOTHSHS.map

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 24 Apr 1995 11:24:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950424111905.22263A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Great map posted by KB8JX0 with streets detail in and around hara arena. WWhen I first tried to load it into MAPFIX, I keep getting an error 5.

Turns out, it didnt like the RANGE of 1.5 miles.

I changed it to 2.2 (so you could see it at the 2 mile range) and it worked fine. Then I changed it back to 1.5 to see why that failed, and it also worked fine! Now, I dont have a copy of the original to see what could ave been worng with the original range....

Anyway, when you get this map, change its name from OHHARA2.map to OHB00THS.map to match the existing entry in the recent MAPLIST.APR distributions. This map supersceedes my original OHbooths.map... and should replace it.

369. Maps

From: DEANG@mail.syntron.com
Date: Mon, 24 Apr 95 14:37:18 CST
To: aprssig@tapr.org
Message-ID: <9503247987.AA798759438@MAIL.SYNTRON.COM>
Rendered body type: text/plain

Has anyone tried using a SummaSketch III graphics tablet with MAPFIXER.BAS? I can't seem to get it to output data in a format that MAPFIXER likes.

Also, is the PLT2MAP program (Autocad to MAP conversion) available via FTP or BBS? It is shareware or must I shell out \$25 to see if it works.

73's KC5KGE

370. APRS on VOICE REPEATERS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 24 Apr 1995 21:32:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950424212340.29583E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Here is the gist of what we will be introducing at DAYTON. Think it through, I think it is the ultimate for HAM RADIO!

VOX-RPTR.txt	INTEGRATING APRS WITH VOICE REPEATERS	APRS
	THE APRS LOCATOR SYSTEM	PROPRIETARY
	Copyright 1993,4,5 WB4APR	

As the mobile GPS phenomenon continues to grow, there is a much more cost effective method to provide mobile vehicle tracking, than to require every mobile to have an additional TNC, digital radio, and second antenna costing over \$400! The mobile position reports should be integrated into the EXISTING vehicle two-way radios by transmitting the position report in a very brief tone burst at the end of a voice transmission. With this scheme, no additional hardware is required in the vehicle, other than a hand-held GPS unit.

By transmitting a position report at the end of a voice transmission, not only is this a period of dead time due to the almost universal courtesy-beeps found on amateur repeaters, but the tone burst can be easily muted out at the repeater receiver, so that the other mobile users DO NOT HEAR it! If the tone burst is about 0.25 seconds, then it will be virtually transparent to voice repeater operation. The new APRSc (Compressed) format achieves a complete position report, course, speed, and digipeater information in about 30 bytes including header, vice the 90 or more bytes in a normal APRS position report.

At the voice repeater receiver, a special APRS REPEATER NODE TNC picks off the position report and digipeats it out onto the dedicated APRS digital frequency for mobile position reporting using a path derived from the bits in the TO-SSID. In addition, it appends the repeater frequency onto the end of the position report so that digital users can see where the packet originated. If all voice repeaters digipeated onto the same digital position reporting channel (usually 145.79 nationwide) then anyone monitoring the APRS frequency will see ALL mobile position reports from ALL GPS mobiles on ALL frequencies!

HARDWARE: To implement this APRS LOCATOR SYSTEM, there are two critical elements needed. First is an APRS MIC ENCODER to handle the integration of the mobile GPS data into the users mobile microphone connector. Second is the specialized APRS REPEATER NODE that handles the digipeating of the compressed position reports heard on the voice repeater inputs over to the

APRS digital channel. Details of each of these designs follows.

APRS MIC ENCODER: In order to make the APRS LOCATOR SYSTEM practical, the packet TNC for injecting the position report into the microphone audio had to meet several design constraints:

- * Must interface to UNMODIFIED radios via the MIC connector
- * Must compress position report into less than 0.25 seconds
- * Must Fail Safe so that MIC can always be used
- * Must be low enough in power so that it does not load the MIC power pin
- * Must have easily selectible user parameters
- * Must be very small for easy mounting and portability
- * Must accept the readily available NMEA output from GPS receivers
- * Must use standard AX.25 for interim compatibility

The result is a 1200 baud position report compressed to 32 bytes including beginning and ending FLAGS. This equates to about 250 ms, including CALLSIGN, DIGIPEATER PATHS, and a minimum message capability, and the packets are still receivable on ANY AX.25 TNC.

PACKAGING: The initial APRS MIC ENCODER design is about the size of a match box. This permits it to be TAPED to the MIC cord for convenient mounting and for easy access to the configuration switches. The circuit interfaces to the MIC connector and has a miniature 1/8 inch phone jack to receive the NMEA data from the GPS unit. Not only is this arrangement the ultimate in simplicity, but it also makes the entire mobile vehicle position reporting system as portable as the microphone! Simply move the MIC from vehicle to vehicle, and as long as the radios are compatible at the MIC connector, then the vehicles are GPS ready!

On the APRS MIC ENCODER, there are 12 user configuration switches to permit the choice of operational mode, APRS symbol, digipeater path, and a brief message indicator as follows:

ON/OFF	Used to disable APRS beeps on non configured voice repeaters
AUTO/OFF	Auto will transmit when repeater is silent more than N secs.
DIG/VOX	Configures for digital channel or voice repeater use
1 Minute	Used to add 1 minute to the standard 30 sec period
2 minute	Used to add 2 minutes to the standard 30 sec period
DIR/OMNI	Used to set Directional or OMNI digipeating paths
LOC/DX	Used to set LOCAL or LONG DISTANCE digipeating paths
N/S	Used to set North/South digipeater directional routing
E/W	Used to set East/West digipeater directional routing
MSG1	Message bit 1 for user defined messages
MSG2	Message bit 2 for user defined messages
MSG3	Message bit 3 for user defined messages

On the back of the encoder module are 4 jumpers for selecting from the 16 different APRS mobile vehicle symbols. In the AUTO mode, after DOUBLE the normal transmission period, AND if the repeater has been silent for at least this same extended period, then a position packet will be transmitted.

DIRECTIONAL DIGIPEATING: Incorporated into this APRS LOCATOR SYSTEM is a new directional digipeating algorithm. Since the standard AX.25 digipeater field is omitted from the APRS compressed format, only a few bits are used to encode digipeating instructions to the APRS REPEATER NODE. These bits indicate whether the position report is to be digipeated omni-directionally or directionally, a short or long distance, and in what direction. This directionality concept is useful for reducing QRM for the long distance traveler that wants to be seen several hops ahead or behind his direction of travel. He sets the bits in the forward direction if he wants to alert those ahead that he is coming, or he sets them in the backward direction if he wants to inform his home area of where he has gone.

OMNIDIRECTIONAL DIGIPEATING: If the mobile has selected OMNI, then his position reports will be radiated outward in all directions. The new FLOOD-N algorithm (described in WIDE-N.txt) describes this function.

APRS REPEATER NODE: This special TNC NODE is designed to be integrated into every standard amateur voice repeater. The TNC performs a number of special functions to fully implement the APRS LOCATOR SYSTEM:

- * It has true DCD to distinguish between voice and data
- * It has a MUTE output (DCD) to mute the repeater audio during position reports which must be 99.9% immune from falsing on voice
- * It digipeats all position reports from the repeater receiver to the

- dedicated APRS digital channel
- * It implements the APRSc Directional Digipeating algorithm
- * It implements the APRS FLOOD-N digipeater algorithm for OMNI packets
- * It appends ADDText (usually the rptr freq) to the end of all packets ("Voice on 146.940")
- * It must have a second DCD audio input for the APRS packet channel for true CSMA efficiency, but this need only be an audio COR detector.

Notice that although the APRS REPEATER NODE function only listens on the voice repeater input and only transmits on the digital APRS packet frequency, it must also have a secondary DCD listening to the APRS packet channel to avoid collisions. This special APRS node function is NOT involved in any further routing on the APRS digital channel (I mean that it does NOT serve as a general purpose APRS digipeater on the digital channel). All it does is to insert the appropriate directional or OMNI digipeater path and digipeat the packet. This distinction, of course, is only a functional distinction, since APRS digipeater functions can be co-located, or even built into the same NODE box as long as dual digital receiver channels are maintained.

PERFECT DCD OR MUTE CONSIDERATIONS:

Since the ultimate acceptance of the POSIT-PACKET on voice repeaters will be determined by the minimization of the BRAAAAAAP sound on the repeater output, the DCD and subsequent muting of the repeater transmitter are very important. The APRS NODE must therefore provide a separate MUTE signal that is 99.99% percent accurate. Since most voice repeaters have simple analog delay lines of up to 50 ms to eliminate the squelch tail, the actual MUTE decision can be made as late as 50 ms after the initial DCD, and still be able to mute the packet from the repeater output!

NOTES: Notice that the APRS REPEATER NODE will also work on the digital channel! In other words, the APRS REPEATER NODE algorithms can also be running simultaneously in all of the APRS DIGI's so that the APRS compressed format will be picked up directly on the digital channel. These original packets are distinguishable because they DO NOT have an original DIGI field. Once a NODE processes them and adds the DIRECTIONAL or WIDE routing, they will be forwarded as usual. Notice that the NODE hardware can actually do both functions as long as dual digital receive channels are provided.

APRS PROPRIETARY

APRS PROPRIETARY

371. APRS FORUM @ DAYTON?

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>
 Date: Tue, 25 Apr 1995 11:25:24 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.3.07.9504251124.A9606-9100000@acme>
 Rendered body type: text/plain

On one of the local repeaters it was reported:

There will be an APRS forum at Dayton this year. It will be held at the Radison Hotel, 2401 Needmore Rd. (corner of I-75 & Needmore Rd.), Friday morning from 0800 to 0930. It is supposed to be hosted by Gwen Reedy "Jade Room #2".

Can anyone confirm this? I am aware of the APRS "eyeball" Saturday evening at Mallard Landing. This is the first I have heard of the APRS Forum.

372. (no subject)

From: rpss@afsncoa.ssc.af.mil
 Date: Tue, 25 Apr 1995 10:32:40 -0500
 Message-ID: <199504251532.KAA04591@dingus.n5lyt.datarace.com>
 Rendered body type: text/plain

My E-mail address has changed. Please send all mail to:

hfourquet@b1143s1.ssc.af.mil

Thank you!

Huey Fourquet

334-416-2341

373. Re: [APRSSIG:928] APRS FORUM @ DAYTON?

From: Greg Jones <gjones@tenet.edu>
Date: Tue, 25 Apr 1995 11:11:53 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504251611.LAA03362@Alice-Thurman.tenet.edu>
Rendered body type: text/plain

According to Joseph Hussey:

>
> On one of the local repeaters it was reported:
>
> There will be an APRS forum at Dayton this year. It will be held at the
> Radison Hotel, 2401 Needmore Rd. (corner of I-75 & Needmore Rd.), Friday
> morning from 0800 to 0930. It is supposed to be hosted by Gwen Reedy "Jade
> Room #2".
>
> Can anyone confirm this? I am aware of the APRS "eyeball" Saturday
> evening at Mallard Landing. This is the first I have heard of the APRS Forum.
>

They are several APRS related events happening.
I hadn't heard about the one put on by PacComm. Should probably be pretty good and give you a chance to see what products they have available without the press of the HamVention.

The APRS SIG (TAPR) has two presentations/meeting during the TAPR Digital Forum on Friday during HamVention:

4:00pm - 4:30pm APRS
 Bob Bruninga, WB4APR
4:30pm - 5:30pm TAPR APRS SIG
 Keith Sproul, WU2Z

Then on Friday evening, Bob Bruninga, WB4APR (on this SIG) will be discussing I believe some future issues for APRS...in addition Dewayne Hendricks, WA8DZP is going to be discussing PCS and other related technologies...should be two excellent discussions.

Last I heard Keith Sproul will also be holding forth an APRS SIG informal chat after dinner and the speakers. Also, the NETSIG will be meeting. The TAPR BBS SIG is meeting on Saturday.

PACK*BASH '95 - Friday Evening

A new event for the digitally-inclined ham, featuring:
* Buffet dinner (with cash bar)
* Nationally-known speakers holding forth on current topics:
 * Bob Bruninga, WB4APR (Author of APRS)
 * Dewayne Hendricks, WA8DZP
* Prize raffle
* Lots of Informal Discussion
* TAPR NET SIG and a second APRS SIG meeting

When?

Friday evening, April 28, 1995
Dinner starts at 7:00 PM, speaker at 7:45 PM
Everyone is invited to attend, but dinner is only available to those with reservations.

Where?

TJ's Restaurant, 2462 Dryden Road, Dayton
(Dryden Road exit, I75 -- across from the Holiday Inn)
(Maps available at the TAPR booth)

How?

Come by the TAPR booth at Dayton for dinner reservation.
Everyone is invited to come, but dinner is only available to those with reservations.
Dinner cost is \$16.00 per person, tax and tip included.

To register, contact:

TAPR (tapr@tapr.org)
Phone: (817) 383-0000, Fax: (817) 566-2544

Who?

PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet Radio,
the national leader in digital communication -- and the Miami
Valley FM Association, Dayton's packet radio club.

(This is a replacement of the McNasty's event)

Saturday - BBS SIG Meeting

The TAPR BBS SIG will meet Saturday night at 7:00pm

Where: Radison Hotel - Premier Room

The Radison is located near the intersection of I-75 and
Needmore Rd. This is not far from Hara Arena.

New feature this year - CHAIRS !!!

This is a great opportunity to meet with fellow BBS Sysops and discuss
current events and plans for the future. TAPR membership is not a
requirement, this event is open to the public.

For more information, stop by the TAPR booth at HARA.

Tucson Amateur Packet Radio (tapr@tapr.org)
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000

374. Help ULT II-APRS 68a WX probs

From: DDOBBINS@aol.com
Date: Tue, 25 Apr 1995 14:19:20 -0400
To: aprssig@tapr.org
Message-ID: <950425141749_95773882@aol.com>
Rendered body type: text/plain

Still having problems getting APRS to read the rain gauge. Had a nice
rainfall last night, and the ULT II is displaying .4 this a.m. However, I did
not see any report via APRS, and checking the saved HST log, no rain was
reported. Setup is OK, or so it seems. Is anybody else having similar probs?
Aloha, Dave.

375. (no subject)

From: mchale@zk3.dec.com
Date: Tue, 25 Apr 95 15:58:14 -0400
To: aprssig@tapr.org
Message-ID: <9504251958.AA00436@nm1w.zk3.dec.com>
Rendered body type: text/plain
Subject: detailed MAPS from the U.S. Bureau of the Census

I dont recall seeing anyone mention this as yet another source of
maps, but apparently the gov't is providing street level maps for
free; from the web page:

"Welcome to the home page for the TIGER Map Service, a project
sponsored by the U.S. Bureau of the Census. The goal of this service
is to provide a public resource for generating high-quality, detailed
maps of anywhere in the United States, using public geographic data."

Available from <http://tiger.census.gov/>

the maps look pretty good...
-jim

=====

Jim McHale,NM1W	First Strike Software Inc
Mac/OSF/Unix consulting	603-329-7885
mchale@fss2.mv.com	Packet: nm1w@wb1dsw.nh.usa.na

=====

376. Re: [APRSSIG:932]

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Tue, 25 Apr 95 16:16:29 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.798840989.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

RE: Tiger Maps

The program I announced a few days ago, MacMapMaker, will be able to import TIGER data and output this to PC APRS map files..

I already have the TIGER documentation and am already working on this...

Even though this program runs on the Mac, it will benefit the PC people quite a bit because it will be able to create AND edit all of the maps that the APRS people have been wanting..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

377. Re: [APRSSIG:931] Help ULT II-APRS 68a WX probs

From: dhenders@InterServ.Com
Date: Tue, 25 Apr 95 14:00:04 PDT
To: aprssig@tapr.org
Message-ID: <9504252100.AA02535@ InterServ.Com>
Rendered body type: text/plain

<---- Begin Included Message <---->

From: DDOBBINS@aol.com

Still having problems getting APRS to read the rain gauge.
Had a nice
rainfall last night, and the ULT II is displaying .4 this
a.m. However, I did
not see any report via APRS, and checking the saved HST
log, no rain was
reported. Setup is OK, or so it seems. Is anybody else
having similar probs?
Aloha, Dave.
<---- End Included Message <---->

Thanks for your comments on the Garmin unit.

N3HPR had this same problem here in Erie. The fix was to
bring up APRS without config file and answer all the
initialization questions from the beginning making sure
not to miss the one on the rain gauge. Missing it by
hitting a return apparently will not allow the info to
pass to APRS. Try it and let us know.

73, Dave, N3EOY

378. Re: [APRSSIG:902] APRS & Skywarn criticism-help!

From: janderson@ram.net (Jack Anderson)
Date: Wed, 26 Apr 95 17:21:24 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0b69@ram.net>
Rendered body type: text/plain

>>Bill, I guess I can't understand how a "BEACON" of information sending thru
>>digis or nodes are going to work. You will not have any idea whether any
>>station received the information or not as there is no acknowledgements.
>>However, if you set up a BBS to forward the info into the ESDA coordinators
>>personal mailboxes, you would know that they were received. Dont send
>>the info to any BBSs, just forward it directly to the ESDA people.

One problem you might run into when presenting APRS is that sometimes, terms
are used that many people associate with poor operating practices. Examples
of this are the terms "beaconing" and "digipeating". It probably works best
to think of an APRS network as an "unconnected network", since we've been
conditioned to think of "beacons" as evil and detrimental to a packet
channel. For the most part, no AX.25 connections are ever made in an APRS
net. Position information is sent using a broadcast mode, where every
station's information is updated periodically. The same is true for stations
sending weather information, whether manually entered or sent automatically
from a station equipped with a weather station. Although this information is
not acknowledged, it is updated continually and checking to see when the last
transmission was received is a very simple manner. My own experience is that

this mode of operation is very reliable in areas with sufficient RF coverage.

Messages can be sent from one station to another when it is necessary to communicate with only one station on the net. These messages are automatically acknowledged upon successful receipt at the receiving station, so there is never any doubt as to whether or not the message was delivered. These messages are also sent in an unconnected mode, so APRS can remain active during these communications. I have found these messages to be extremely reliable and fast, and are in fact much easier to send than generating a BBS type message on a PBBS. There is no need to set up a connection to a remote mailbox through a node or nodes. The message gets to its destination a lot faster.

>>You are sold on APRS but trying to start another network strictly dedicated
>>APRS is not what most folks are interested in, they still are trying to bui
>>the backbone up. Down this way, the preferred type of operation would be
>>to take all forwarding off of 5.01 not start up another network of APRS
>>stations. All of this for the one bad month a year of weather, doesn't mak
>>sense to me. The NWS can come right down the backbone, connect directly to
>>nodes and right into the ESDA coordinator's mailboxes and leave the info,
>>not hope that there stations see the beacon of information that would not
>>be ack'ed back.

Using APRS does not preclude the possibility of establishing direct connections and leaving messages in mailboxes. All of that can continue. In addition, the NWS and ESDA users would be able to see real-time map displays with graphic and text representations of weather conditions throughout the area. It adds value to what they are currently doing (or want to do).

APRS has a lot of public service applications that go way beyond weather reporting. My area has a mature network and good WIDE digipeater structure, and it is possible to see many stations on the map on any given day. There are a number of public service events that occur here where APRS is used to track the position of vital assets during the events.

APRS "sells itself" when you demo it in an area that has a mature network and at least one good digipeater. You might want to explore the possibility of getting a WIDE digipeater up in a good location, where hopefully it can hear other WIDES and cover the area that you are interested in serving. Then, pass the software out to as many packet users as you can get interested it and see if interest develops. I first looked at APRS when it first came out, someone uploaded it to my landline BBS and I decided to check it out. At the time, there was very little activity, so after a week or so, it was DEL C:\APRS*. *. A few months ago I decided to try it again and have had a dedicated APRS station on line ever since. There is a great deal of activity here and it is frequently possible to see stations from as far north as NY and CT at my QTH near Washington, DC. When I show this to other hams, many are very interested and at least give it a try. Not everyone has a computer to dedicate to it, but at least they fire it up and from time to time, get back on to see what's happening.

>>I will see if anyone is interested in attending on the 30th
>>but it sounds like there will be NO discussion on what's the best, it sound
>>like it has already been decided.
>You know, your first message to me about
>this APRS and 5.79 was just last week, up until then NO one had discussed
>this with ANY downstate ESDA coordinators in Hancock or Warren county, now
>all of a sudden it is said we not only need nodes, but they have to be on
>5.79....lots of equipment on 5.79 just for the weather? HMMMMMMMMMM.

Again, I think he needs to see a good APRS net in action to really appreciate what the possibilities are for WX, public service and just plain fun. He has some good points but many would be addressed if he had a chance to play with it and try to do some of the things he wants to do. It's hard to tell, but it sounds like the WX net they are using, or want to use, will rely on connecting to remote maildrops through nodes to leave messages. They can continue to do this, but with the APRS point to point messaging capabilities they will find it much faster to send short messages directly from APRS than node-hopping and connecting to maildrops.

73
Jack

379. Re: A screen problem

From: rwf@mindspring.com (rwf)
Date: Wed, 26 Apr 1995 18:16:00 -0500
To: aprssig@tapr.org
Message-ID: <199504262211.SAA20711@dylan.mindspring.com>

Rendered body type: text/plain

When using APRS on a frequency that has a lot of AX.25 activity, my map screen scrolls up and off as other channel activity appears on the bottom. As a matter of fact, I hardly ever see the status line at all. I am using 68a and don't really remember this happening before on my older version (62, I think).

I was on a 6 month hiatus from APRS due to having no machine for portable use. Have I forgotten something? Or is there something on the freq that is interfering with the good display of data?

See Y'all at Dayton.

Ralph Fowler
Atlanta, GA
N4NEQ

380. Re: [APRSSIG:936] Re: A screen problem

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 26 Apr 1995 21:22:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950426211947.26563C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 26 Apr 1995, rfw wrote:

> When using APRS on a frequency that has a lot of AX.25 activity, my map
> screen scrolls up and off as other channel activity appears on the bottom.

APR REPLY: The problem is NODE or level 4 traffic. APRS cannot filter it out but your TNC can. Use BUDLIST to suppress packets from certain addresses such as NODES and BBS's. Also some TNC's have the ability to turn off the monitoring of level 4 traffic all together.. Gud Luk!

381. Graphics Screen Print

From: N9VJQ@aol.com
Date: Wed, 26 Apr 1995 21:38:07 -0400
To: aprssig@tapr.org
Message-ID: <950426203617_97567126@aol.com>
Rendered body type: text/plain

For those who are trying to tell fellow hams and others what APRS looks like, try this:

If you've got a recent version of DOS (I have 6.22), include the DOS command "Graphics" in the APRS bat file, before the "APRSxxx" command. Then, when you see something interesting on the screen that you've gotta show somebody, do a "Screen Print".
My 9 pin dot matrix on IBM Proprinter II emulation does a fairly decent job of showing what I can't verbally describe.

73's Barry
N9VJQ@WB9SLE.IL.USA.NOAM
n9vjq@aol.com

382. For Keith, WU2Z

From: DDOBBINS@aol.com
Date: Wed, 26 Apr 1995 22:36:07 -0400
To: aprssig@tapr.org
Message-ID: <950426212751_97641046@aol.com>
Rendered body type: text/plain

Keith, I've heard about aprsm map making in a separate program. Would like to know more, incl where I can get it. I've got the 1:100,000 CDROM maps for HI in optional format, and having not much luck building maps in the DOS environment, due to mapfixer68 locking up. Alot of work, much easier if I had a digitizer, and perhaps that's next. 1.4.2 working well now, thanks for you help. Wish I could join you in Dayton this weekend. Have fun, perhaps you'll see my HF beacons from Hawaii. Aloha, Dave.

383. Registration

From: "Sykes, Stephan E" <ses@rfpo2.rfc.comm.harris.com>
Date: Thu, 27 Apr 95 08:25:00 DST
To: Bob Brininga <aprssig@tapr.org>
Message-ID: <2F9E3BC5@smtgate.rfc.comm.harris.com>
Rendered body type: text/plain

Hello Bob,

I have mailed in a check for APRS registration with GPS. Could you please send me the registration numbers by email? If not, I understand.

The mail is quite slow here.

Thank you.

Steve Sykes KD20M

384. Re: [APRSSIG:935] Re: APRS & Skywarn criticism-help!

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Thu, 27 Apr 1995 09:04:56 +0000
To: aprssig@tapr.org
Message-ID: <9504271301.AA20130@oriola.ustc.vlsi.COM>
Rendered body type: text/plain

Just have to add a note here. I participated in an ARES/RACES drill two years ago and brought along my APRS mobile set up with GPS. All comm was to be on 2 MTR FM simplex using portable (emergency) equipment. No repeaters or fixed antennas. Comms were poor at best due to the distances between sites. I reverted to The APRS message system (back then there were only a few people on here) and with the network in place was able to provide more reliable comms than any other site. This system with the coordination and many relay sites is ideal especially for emergency comms.

Bob

>>>Bill, I guess I can't understand how a "BEACON" of information sending thru
>>>digis or nodes are going to work. You will not have any idea whether any
>>>station received the information or not as there is no acknowledgements.
>>>However, if you set up a BBS to forward the info into the ESDA coordinators
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>>>nodes and right into the ESDA coordinator's mailboxes and leave the info,
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>addition, the NWS and ESDA users would be able to see real-time map displays
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>from time to time, get back on to see what's happening.
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>>>I will see if anyone is interested in attending on the 30th
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>>You know, your first message to me about
>>this APRS and 5.79 was just last week, up until then NO one had discussed
>>this with ANY downstate ESDA coordinators in Hancock or Warren county, now
>>all of a sudden it is said we not only need nodes, but they have to be on
>>5.79....Lots of equipment on 5.79 just for the weather? HMMMMMMMMMM.
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>continue to do this, but with the APRS point to point messaging capabilities
>they will find it much faster to send short messages directly from APRS than
>node-hopping and connecting to maildrops.
>
>73
>Jack

Bob Baltz	*
Chesapeake Region Sales	*
Ph: (410) 987- 8777	*
Fax: (410) 987-8777	*
E-mail bob.baltz@ustc.vlsi.com	*

385. Motorola GPS receivers (used)

From: George.Henry@f668.n115.z1.fidonet.org (George Henry)
Date: 27 Apr 95 08:18:54 -0600
To: aprssig@tapr.org
Message-ID: <055_9504271130@chigate.fidonet.org>
Rendered body type: text/plain

A local ham has come across a number of used Motorola 6-channel GPS receivers -
perfect for standalone APRS tracking use! NMEA output (programmable, I think)

Tested, with direct-mount antenna and cable, hookup instructions. (NOTE:
these are NOT handheld display-type units!) I'll have more details in a day or
two when >>> I <<< get my hands on one!

He's asking \$150.00 plus \$5.00 shipping, at least 10 are available.

Direct inquiries to 73227.2220@compuserve.com (the guy that has 'em), or to me
by
e-mail (NOT thru the SIG, please...)

73 de KA3HSW

The KA3HSW Ham BBS - your APRS source in
the Chicagoland Far West Suburbs!

386. What happened to the SIG????

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Thu, 27 Apr 1995 14:19:15 -0400
To: aprssig@tapr.org
Message-ID: <9504271821.AA29810@netaxis.com>
Rendered body type: text/plain

What happened to the SIG????? I haven't seen mail in it for over 4 days. Do
I need to reapply?????

Bill Hurlock
//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

387. Re: [APRSSIG:936] Re: A screen problem

From: jgarrett@world.std.com (John Garrett)
Date: Wed, 26 Apr 1995 23:37:04 -0400
To: aprssig@tapr.org
Message-ID: <W5ndlmPA4crS065yn@World.std.com>
Rendered body type: text/plain

" When using APRS on a frequency that has a lot of AX.25 activity, my map
" screen scrolls up and off as other channel activity appears on the bottom.
" As a matter of fact, I hardly ever see the status line at all. I am using
" 68a and don't really remember this happening before on my older version
" (62, I think).
"
" I was on a 6 month hiatus from APRS due to having no machine for portable
" use. Have I forgotten something? Or is there something on the freq that is
" interfering with the good display of data?

Yeah, its called TCP/IP. That's what wipes out screens around here in
Boston. We have a couple of BBSes on the frequency we use for APRS
[145.77, but may be qsyng to .79!] and they have TCP gateways. When I
see control characters in the channel activity window, the map zooms in,
or disappears, etc. Its either that or the mail forwarding these 2
BBSes are doing on 2m at 1200 baud. I think there's control characters
in that stuff too. Check it out.

John

388. Re: [APRSSIG:944] Re: A screen problem

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 27 Apr 1995 22:13:14 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199504280313.WAA07845@solar.cs.tamu.edu>
Rendered body type: text/plain

John Garrett sez:

>

> Yeah, its called TCP/IP. That's what wipes out screens around here in

Awright,

lay off TCP/IP. For real good reasons, it shouldn't be on the same channels
as ax.25 basic traffic. Thats another hard lesson for folks to learn, and a
number of BBS folks haven't learned it. But, in real terms, it should have no
effect on either APRS *OR* on your normal ax.25 traffic. IP merely makes
packet a little more useful for the BBS-type operations a lot of folks want to
do: Mail, file transfers, news, etc. And, since it really IS within the
scopes of a standard, it's got some advantages to some of the other forms of
packet "applications" out there.

If you're seeing control characters out there, and it's from an IP station,
talk to them and see if there's a move to get a "homeland" for IP. It'll
improve their life immeasurably. Oh, and if you think a few blanked screens
is bad, IP can run well beyond the limit of most digipeaters as far as packet
length. This tends to leave digi's locked up and gasping for breath, while
the IP stations continue to hum along just fine.

Basically, for simplicity, IP and BBS activity should not co-exist. Nor
should, in my opinion, APRS and other activities. If we really need the APRS
functionality, we do NOT need to wait for the local BBS to forward 200 kb of
mail to the next BBS...

73, gerry

389. Re: [APRSSIG:943] What happened to the SIG????

From: kcSejk@onramp.net (Robert Winingham)
Date: Fri, 28 Apr 1995 00:08:15 -0500
To: aprssig@tapr.org
Message-ID: <v01510100abc628910809@[199.1.11.154]>
Rendered body type: text/plain

>What happened to the SIG????? I haven't seen mail in it for over 4 days. Do
>I need to reapply?????
>
>Bill Hurlock
>//-----
>hurlockw@netaxis.com
>wa2tqi.ampr.org 41.08.33N 73.23.51W
>grid square FN31jd

I might be a good Idea, I have to last month.

Bob KC5EJK Dallas

390. Re: [APRSSIG:945] Re: A screen problem

From: "Craig L. Lindsey" <cll4@Ra.MsState.Edu>
Date: Fri, 28 Apr 1995 00:12:04 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950428000936.13820A-100000@Ra.MsState.Edu>
Rendered body type: text/plain

On Thu, 27 Apr 1995, Gerald J Creager wrote:

> John Garrett sez:
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> > Yeah, its called TCP/IP. That's what wipes out screens around here in
> >
> If you're seeing control characters out there, and it's from an IP station,
> talk to them and see if there's a move to get a "homeland" for IP. It'll

I have noticed the same problem in my area..control characters messing up
the screen, etc. I watched it for a minute, and it was DEFINITELY bbs
forwarding in my case. These are ax.25 msys bbs's, and using compressed
forwarding. The compressed mail has all kinds of control codes in it.
I have the TNC filter the calls out with my lcalls list. I am willing
to bet that is what is happening in your case, as well.

73,
Craig

Craig Lindsey - KC5AUG | My politics are simple: Always go right. If
Internet: cll4@ra.msstate.edu| you go left, you can never go right, and if
Office Phone : (601)325-8553 | you go right, you never go wrong. -Grizzard
WWW page: <http://www2.msstate.edu/~cll4/>
Finger cll4@ra.msstate.edu for PGP public key.

391. Re: [APRSSIG:944] Re: A screen problem

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 27 Apr 1995 22:28:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.950427222754.79B-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Thu, 27 Apr 1995, John Garrett wrote:

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> " screen scrolls up and off as other channel activity appears on the bottom.
> " As a matter of fact, I hardly ever see the status line at all. I am using
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> [145.77, but may be qsyng to .79!] and they have TCP gateways. When I
> see control characters in the channel activity window, the map zooms in,
> or disappears, etc. Its either that or the mail forwarding these 2
> BBSes are doing on 2m at 1200 baud. I think there's control characters
> in that stuff too. Check it out.
>

If you have a TNC-2 or clone, cure the problem by setting MNONPRIN
and/or MNONAX25 to OFF. That should solve the problem.

Howie

hg@n2wx.ampr.org
http://www.tapr.org/~n2wx/

From: DDOBBINS@aol.com
Date: Sat, 29 Apr 1995 06:02:34 -0400
To: aprssig@tapr.org
Message-ID: <950429060232_100515023@aol.com>
Rendered body type: text/plain

OK, one more time. Where can I find the Macintosh APRS files via FTP. Thought it was at UCSD.EDU, but could not locate them. A little help, PLEASE. Mahalo, Aloha. Dave. WH6YC in Hawaii.

From: wnolle@fly.HiWAAAY.net
Date: Sat, 29 Apr 95 06:06:08 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950429062016.wnolle@wnolle.HiWAAAY.net>
Rendered body type: text/plain

I would sure like some help in explaining the Unproto path. We are now getting established after a long hard battle and a very long time trying to recruit users. Now we are to a point where we have 4 digi's up and running and all i see from the "D" list is Call,WIDE,WIDE. There is no clear documentation on really the best path to use to get the best performance. I talked to one of the main digi owners, who potentially could be the key to APRS working Great or not at all!. This person stated that it doesn't matter if digi's overlap and can run as much power as they want, he said he has been in packet for many, many years and that all ax25 protocols are alike. Of course i know that's not the case and that you can't handle APRS like a BBS. I sure would like one of the Guru's on here explain what really is THE BEST Unproto to use for all involved. I understand that the prime digi's should use WIDE,WIDE (I guess). But how about the rest of the users that direct there messages to these digi's. Sure hope someone can make this a little clearer then the documentation file within APRS. By the way one of the digi's overlaps another by 50 percent!. Sure like some help with this before it gets out of hand. We have a demo coming up that could potentially make us grow or bust. thank you in advance.

```

      \ / \
      . / \ \ (o) (o) | / |
-----0.0000-----oo-----o000.-----
|
|      KE4EER
|      APRS 145.790Mhz
|      3458'34N-08629'53W
|      0000.
|
|      .0000      ( )
|      ( )      ) /
|      \ (      (_ /
|      \ \

```

From: Kent Larson <klarson@access.digex.net>
Date: Sat, 29 Apr 1995 08:20:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950429081911.19263A-100000@access5.digex.net>
Rendered body type: text/plain

I'm not an expert but if you can wait long enough for people to get back from Dayton you should have no problem getting a "qualified" reponse.

Good luck!

Kent

On Sat, 29 Apr 1995 wnolle@fly.hiwaay.net wrote:

```
> I would sure like some help in explaining the Unproto path.
> We are now getting established after a long hard battle and
> a very long time trying to recruit users. Now we are to a point
> where we have 4 digi's up and running and all i see from the
```

```
>
>
>      .   \ /   \
>      | \ | (o) (o) | / |
> -----o000o-----oo-----o000.-----
>
>      KE4EER
>
>      APRS 145.790Mhz
>      3458'34N-08629'53W
>
>      oooo.
>      .oooo ( )
>      ( )    ) /
>      \ (    (_/
>      \_)
>
>
>
```

1 picture is worth a thousand words!!

That pretty well covers it don't you think? I work in city government and we are working with Rockwell in Automotive Vehicle Location in conjunction with sending vehicle performance data. This involves a study of electric buses with the help of G.E. and your federal tax contributions which I thank all of you for. We also are in the process of incorporating AVL with Enhanced 911 for emergency services. This will include routing software as well. Government puts a high value on the use of graphical representation, as it adds clarity and fast interpretation to information and reduces human error in those areas.

Just apply the BBS mailbox analogy to these applications and you can see the inefficiencies. If my mailbox had vehicle location info and status I would then get out my map and ruler and the plot that location.

How much better to see the police car flashing red to indicate an officer is down.

398. Bob, now you have gone TOO far!

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sun, 30 Apr 1995 14:56:07 +0100 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950430144910.843A-100000@pinegov>
Rendered body type: text/plain

Well, I just installed version 6.8b in my computer to replace 67b. I set up all my parameters for the GATE, as usual, and suddenly, this message keeps flashing at me that I shouldn't be using a digi!.

That's a bunch of crap! You HAVE TO digi when running a gate, otherwise, your own signal cannot be seen on VHF...you must reflect back to your own GATE!

Besides, I DON'T LIVE IN MARYLAND....I live in Florida, I have to contend with South American signals plus most of the United States is OUTSIDE THE SKIP ZONE!

So, Bob, I paid you for this thing so how about removing that message, and you can remove that other stupid message about GATE in the VHF path too while you're at it.....It drives KAM users nuts because GATE is in the HF path of the two path line required for KAM input!

I have been supporting APRS since nearly the beginning so let's not forget who the end user is...

73 de KD4UYR

399. Re: [APRSSIG:955] Bob, now yo...

From: N9VJQ@aol.com
Date: Sun, 30 Apr 1995 20:17:21 -0400
To: aprssig@tapr.org
Message-ID: <950430201720_101971136@aol.com>
Rendered body type: text/plain

On 95-04-30 Kevin Heyboer KD4UYR wrote:

>So, Bob, I paid you for this thing so how about removing that message, and
>you can remove that other stupid message about GATE in the VHF path too
>while you're at it.....It drives KAM users nuts because GATE is in the HF path
>of the two path line required for KAM input!

>I have been supporting APRS since nearly the beginning so let's not forget
>who the end user is...

I move that we take up a collection and give the man back his money if he's an unsatisfied customer.. Any seconds?

73 de N9VJQ

barry leonard

400. Re: [APRSSIG:956] Re: Bob, now yo...

From: Bob Lorenzini <wd6dod@wd6dod.ampr.org>
Date: Sun, 30 Apr 1995 17:46:36 -47900
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9504301740.A154-0100000@wd6dod.ampr.org>
Rendered body type: text/plain

much diatribe deleted

>> >I have been supporting APRS since nearly the beginning so lets not forget
>> >who the end user is...

> I move that we take up a collection and give the man back his money if
he's > an unsatisfied customer.. Any seconds?
>
> 73 de N9VJQ
>
> barry leonard

I will second that motion, but perhaps he was just having a bad hair day
and will offer an apology. After all he could go back to the previous
version as we all know that running the very latest is to be on the
"bleeding edge".

Bob - wd6dod
bobl@citpac.gps.caltech.edu

May 1995

Original source file: aprssig.9505

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1995-05/TAPR-APRS_1995-05.txt

1. Mail Archive for aprssig

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 30 Apr 1995 23:57:49 -0500
To: aprssig@tapr.org
Message-ID: <v01510100abca19babd53@[199.1.11.111]>
Rendered body type: text/plain

OK it is now MAY !! Could someone push the magic button and have the April aprissig mail posted to the archive dir.

I am missing a week in March about the time several of us seemed to get cut from the list and had to re-subscribe

Thanks
Bob KC5EJK Dallas

2. Bad Hair Day

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Mon, 1 May 1995 07:22:14 +0100 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950501070846.1968A-100000@pinegov>
Rendered body type: text/plain

Okay, yes, I was having a bad hair day when I wrote the message with teeth.

However, I am serious about these little messages that appear directly over the map. There are valid reasons why Relay and Echo exist within the system, and it should be the operators choice on his/her configuration.

If the message came up only once....or it was over in the corner instead of smack in the middle of the screen (and map), it wouldn't be so aggravating.

Please remember there are output wattage limits on 30 M that are much lower than other HAM bands....even with a perfect antenna and terrific radio, the band rarely supports nationwide contact without at least one digipeat of the packet.

If the network is becoming so crowded that digipeating is creating a problem, then perhaps we, as a group, should establish only certain stations as HF WIDE type digipeaters nationwide. This would also eliminate the ECHO problem.

And finally, Bob, PLEASE, I am on bended knee here, could you FULLY SUPPORT the dual port KAM. I would not have to digi on HF just to bounce my own signal back through VHF if the program would transmit through both ports simultaneously. I will mail you a copy of the entire commands manual if it will help. (It is a simple matter, really, just switch datastreams from ~A to JA and back again).

And no, I don't want my money back, I just want the best nationwide and local APRS system possible.

73 to all
Kevin KD4UYR.
(placing sword to chest as I type)

3. Re: [APRSSIG:951] Re: Someone help

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Mon, 1 May 1995 09:23:10 +0000
To: aprssig@tapr.org
Message-ID: <9505011319.AA21790@oriola.ustc.vlsi.COM>
Rendered body type: text/plain

Once you have a network set, You should set your UNPROTO to an established NODEs call that you can hit with min power. That way only that one or possible one more will digi your station. Wide should primarily be used when mobile and relay causes muc confussion if everyone uses it. If you have occasion to send to distant station you can change UNPROTO for a short period of time and change it back . I have my UNPROTO set to a NODE I can hit with 0.5watts and have no trouble.

[illegible]

4. Re: [APRSSIG:944] Re: A screen problem

```
> " When using APRS on a frequency that has a lot of AX.25 activity, my map
> " screen scrolls up and off as other channel activity appears on the bottom.
> " As a matter of fact, I hardly ever see the status line at all.  I am using
>
> Yeah, its called TCP/IP.  That's what wipes out screens around here in
> Boston.  We have a couple of BBSes on the frequency we use for APRS
> [145.77, but may be qsyng to .79!] and they have TCP gateways.  When I
> ....
```

5. Help needed (Or Bug)?

Page 369

Message-ID: <Chameleon.950501090959.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

I'm running version 68b and it looks like it's working ok so far except for one thing that doesn't look like it's working to great. When i want to save a Digi path (Should be able to save 13) it saves them without any problem, so my question is HOW DO I LOAD THEM. I did the O-D then typed in the two letter digi path i had saved (And by the way is listed on the display) It will not load it at all even though the list shows they are their. Ok Bob what did you do now Hi...

```
      .  /  \  .  
      | \  (o)(o) / |  
-----o00o-----oo-----o00o-----  
|          KE4EER          |  
|      APRS 145.790Mhz      |  
|  3458'34N-08629'53W      |  
|          0ooo.          |  
|          .ooo0          |  
|          ( )            |  
|          \ ( ) /        |  
|          \ ( ) /        |  
|          \ )            |  
|          \ )            |
```

6. Re: [APRSSIG:950] Someone help

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 1 May 1995 10:43:06 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950501101600.23828H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 29 Apr 1995 someone wrote:

> I would sure like some help in explaining the Unproto path.
> We are now getting astablished after a long hard battle and
> a very long time trying to recruit users. Now we are to a point
> where we have 4 digi's up and running and all i see from the
> "D" list is Call,WIDE,WIDE. There is no clear documentation
> on really the best path to use to get the best performance.

> But how about the rest of the users that direct there messages
> to these digi's. Sure hope someone can make this a little clearer
>

APR REPLY: It ALL depends on the topology. Each person should make his own path to cover the area he wants to cover. If he is at one END and only can hit ONE wide, then he may as well always use the digi CALL. If he wants to go beyond that one, then he chooses the next call in the string. However, if that first digi can hit two or more other WIDE's, then he can just use DIGI,WIDE, and all of these second DIGIS will repeat, at the same time:

```
                                WIDE  
user          DIGI  
  
                                WIDE
```

If a user is symetrically in the middle of a LINE of digipeater, then he can use WIDE,WIDE to go out two hops in both directions.

```
WIDE    WIDE    user    WIDE    WIDE
```

Under most conditions, the packets will COLLIDE back on the originator and APRS may give him a warning that his packet was not digipeated, even though it was, and it did go 2 hops in both directions.. Since both of his neighbor WIDES digi'ed at the same time, they dont hear each other, and therefore do not try to duplicate each other. So there is very little QRM. But if one is held off a second or so due to distant packets, then both may hear each other and the originator may see as many as 4 copies of his packet. But that is the price we pay, until we have a better algorithm.

You should NEVER use WIDE,WIDE,WIDE. Be creative, and selective. Use the path of WIDE,WIDE,DIGI3 in the following example to give maximum coverage in both directions (but favoring the east). (all are WIDES):

```
DIGIwest  WIDE  WIDE  user  WIDE  WIDE  DIGI3
```

Notice that at this point, a user who wants to go 3 hops or more MUST

always FAVOR one direction or the other at any one time...

There are no rules (other than ALWAYS AVOID WIDE,WIDE,WIDE). Each user MUST figure it out for himself because it is COMPLETELY dependent on his location, and antenna/VHF path...

Of course, we often use W,W,W for MOBILES at special events, because they RARELY can ever hit TWO wides at the same time. Since they only hit ONE, then after the first, the condition is not much worse than W,W.

When digis are not in a simple line, then you just have to figure it out based on each station..

7. Re: [APRSSIG:955] Bob, now you have gone TOO far!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 1 May 1995 11:01:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950501104617.23828I@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 30 Apr 1995, someone wrote:

> Well, I just installed version 6.8b in my computer to replace 67b. I set
> up all my parameters for the GATE, as usual, and suddenly, this message
> keeps flashing at me that I shouldn't be using a digi!. (ON HF)
>
> Thats a bunch of #@\$\$%! You HAVE TO digi when running a gate, otherwise,
> your own signal cannot be seen on VHF...you must reflect back to your own
> GATE!.....

APR REPLY: Talked to Wu2Z and I will add the ability for the KAM to transmit onboth the VHF and HF side at the same time. This is so that KAM gateways do NOT have to DIGIPEAT every packet out on HF just to have it digipeated on HF back to his local VHF users...

> while your at it.....It drives KAM users nuts because GATE is in the HF path
> of the two path line required for KAM input!

APR REPLY: I thought I fixed that a while back. Now I only put up the GATE bitch, if I see GATE AFTER the / in the KAM path. If that is NOT working, then lemme know.

8. Re: [APRSSIG:962] Help needed (Or Bug)?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 1 May 1995 11:08:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950501110655.23828K@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 1 May 1995 wnolle@fly.HiWAAY.net wrote:

> I'm running version 68b and it looks like it's working
> ok so far except for one thing that doesn't look like
> it's working to great. When i want to save a Digi path
> (Should be able to save 13) it saves them without any
> problem, so my question is HOW DO I LOAD THEM. I did
>

REPLY: you have to be sure to do a alt-SETUP-SAVE before they are permanently saved for use next time...

9. Lessons learned enroute DAYTON

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 1 May 1995 11:52:39 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950501112424.25270A@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Driving my old klunker with APRS 68a/b running on a FLOPPY CGA 8088 LAPTOP (looks great in the sunshine!) to Dayton made me learn a few lessons plus many comments from users that I will fix soon:

1) The recent move to separate TEXT and MAP screen does not work on this laptop. So EVERY time you depart the MAP screen, and come back it must be re-drawn (1 minute or more)...

A) Therefore, when a Message or an ACK comes in and switches you to the mail screen, you involuntarily loose your map! (another minute wasted)

B) Same goes for sending messages.... (you loose the map)

2) On power up, (3 minutes or more) APRS draws the CONFIG file map (my home town) BUT I WAS IN DAYTON! I will make it so that if you are config'ed for any of the GPS modes, APRS will NOT automatically start up with a MAP display. It will go straight to the P-list so that when your GPS finally gets a new fix, then you may draw the CORRECT map where you are NOW.

A) APRS shows which map it is drawing, but otherwise there is no way to tell which map you are on without asking for a re-draw (BIG pain when it takes 80 secs to draw!)

OTHER COMMENTS RECEIVED AND CHANGES I WILL WORK ON:

3) Make it so that if you are in HSP and turn it off, that you do NOT then have to re-validate to turn it back on....

4) Up the current 99 MAP lables limit

5) if you hit F7 to go to 43 line mode on a cga (my laptop) it crashes

6) Add a new LINE symbol like the NWS uses... "thunderstorms +/- 50 miles of a line between...."

7) Add Police car symbol (exists) to VEHICLES menu (its not there) (useful for plotting "smokey" reports..) (2nd aircraft is also missing)

8) The new NWS WX symbols do NOT show up on the map with the JUST-WX command.

STILL MORE TO CONSIDER.....

8) Add automatic port switching for the PKxxx or was it the MFJ 1278..? SOmeone said that all I have to do is switch Hbaud between 1200 and 300 and turn VHF on&off...

9) Dont release so many versions....

10. Re: [APRSSIG:958] Mail Archive for aprssig

From: Sam_Lipson@berlex.com (Sam Lipson)
Date: Mon, 1 May 1995 09:04:45 -0700
To: aprssig@tapr.org
Message-ID: <fa507860@ccgate.berlex.com>
Rendered body type: text/plain

The March Archives would also be appreciated.

73, de Sam, K06JR
Sam_Lipson@Berlex.Com

OK it is now MAY !! Could someone push the magic button and have the April aprissig mail posted to the archive dir.

I am missing a week in March about the time several of us seemed to get cut from the list and had to re-subscribe

Thanks
Bob KC5EJK Dallas

11. APRSSIG:927

From: Ken Carey <carey@hpcc01.corp.hp.com>
Date: Mon, 1 May 95 9:38:56 PDT
To: aprssig@tapr.org
Cc: carey@hpcc01.corp.hp.com
Message-ID: <199505011638.AA190596337@hpcc01.corp.hp.com>
Rendered body type: text/plain

Hello,

WBYLPG@KA6EYH said (in packet message) theat I could get APRSSIG.927 from this address on Internet. Could you explain how please.

Thanks,
Ken, KN6CK

12. Re: [APRSSIG:949] Where are APRSM files FTP?

From: Dick Mead <mead@skat.usc.edu>
Date: Mon, 1 May 95 10:06:58 PDT

To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.799348018.mead@hamal.usc.edu>
Rendered body type: text/plain

> OK, one more time. Where can I find the Macintosh APRS files via FTP. Thought
> it was at UCSD.EDU, but could not locate them. A little help, PLEASE. Mahalo,
> Aloha, Dave, WH6YC in Hawaii.
>

Try ftp.ucsd.edu /hamradio/packet/tcpip/incoming
look for 4 parts if you don't already have the package.
There is pgm, data,info,misc and 1.4.2 was latest available
pgm file last time I looked.

73,
Dick WB6NGC

13. Re: [APRSSIG:966] Lessons learned enroute DAYTON

From: Kevin Heyboer <kheyboer@pinegov.co.pineallas.fl.us>
Date: Mon, 1 May 1995 13:12:56 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950501131138.2962B-100000@pinegov>
Rendered body type: text/plain

On Mon, 1 May 1995, Robert Bruninga wrote:

> Driving my old klunker with APRS 68a/b running on a FLOPPY CGA 8088
> LAPTOP (looks great in the sunshine!) to Dayton made me learn a few lessons
> plus many comments from users that I will fix soon:
>
> 1) The recent move to separate TEXT and MAP screen does not work on this
> laptop. So EVERY time you depart the MAP screen, and come back it must
> be re-drawn (1 minute or more)...
>
> A) Therefore, when a Message or an ACK comes in and switches you to
> the mail screen, you involuntarily loose your map! (another minute wasted)
>
> B) Same goes for sending messages.... (you loose the map)
>
> 2) On power up, (3 minutes or more) APRS draws the CONFIG file map (my
> home town) BUT I WAS IN DAYTON! I will make it so that if you are config'ed
> for any of the GPS modes, APRS will NOT automatically start up with a MAP
> display. It will go straight to the P-list so that when your GPS finally
> gets a new fix, then you may draw the CORRECT map where you are NOW.
>
> A) APRS shows which map it is drawing, but otherwise there is no way
> to tell which map you are on without asking for a re-draw (BIG pain when it
> takes 80 secs to draw!)
>
> OTHER COMMENTS RECEIVED AND CHANGES I WILL WORK ON:
>
> 3) Make it so that if you are in HSP and turn it off, that you do NOT
> then have to re-validate to turn it back on....
>
> 4) Up the current 99 MAP labels limit
>
> 5) if you hit F7 to go to 43 line mode on a cga (my laptop) it crashes
>
> 6) Add a new LINE symbol like the NWS uses... "thunderstorms +/- 50
> miles of a line between...."
>
> 7) Add Police car symbol (exists) to VEHICLES menu (its not there)
> (useful for plotting "smokey" reports..) (2nd aircraft is also missing)
>
> 8) The new NWS WX symbols do NOT show up on the map with the JUST-WX
> command.
>
> STILL MORE TO CONSIDER....
>
> 8) Add automatic port switching for the PKxxx or was it the MFJ 1278..?
> Someone said that all I have to do is switch Hbaud between 1200 and 300
> and turn VHF on&off...
>
> 9) Dont release so many versions....
>
>

Absolutely fantastic ideas Bob, I use an old 8088 for full time APRS so
my 80486 is not tied up.....will be nice to improve those things.

14. Re: [APRSSIG:958] Mail Archive for aprssig

From: Greg Jones <gjones@tenet.edu>
 Date: Mon, 1 May 1995 12:36:15 -0500 (CDT)
 To: aprssig@tapr.org
 Message-ID: <199505011736.MAA18781@Gayle-Gaston.tenet.edu>
 Rendered body type: text/plain

I'll try to get that done - but you can get the same thing via the listserv interface.

Just ask for
 index

and then use the command

get aprssig filename

Greg

According to Robert Winingham:

```
>
> OK it is now MAY !! Could someone push the magic button and
> have the April aprissig mail posted to the archive dir.
>
> I am missing a week in March about the time several of us
> seemed to get cut from the list and had to re-subscribe
>
> Thanks
> Bob KC5EJK Dallas
>
>
>
```

15. Sorry still wont work

From: wnolle@fly.HiWAAY.net
 Date: Mon, 1 May 95 14:47:32 CDT
 To: aprssig@tapr.org
 Message-ID: <Chameleon.950501145208.wnolle@wnolle.HiWAAY.net>
 Rendered body type: text/plain

Bob Bruninga. I must either be very very unfamiliar with APRS or i'm going crazy (Don't say it). But i can save the unproto path's without any problem , and they do show in the list. As you suggested after enetering the different digi path's i did to a Setup,Save. But guess what when i then restart APRS and attempt to load a certain path (althought in the list) they just will not load. The original unproto path that was entered at the last session is still there. I'm using 68b. Sorry but i gave it all i can muster to make it work. 73 Bill....

```

      \ / \
      /   \
      | \ | (o) (o) | / |
-----o000o-----oo-----o000o-----
|          KE4EER          |
|      APRS 145.790Mhz      |
|  3458'34N-08629'53W      |
|          0000.           |
|          .0000          ( )
|          ( )           ) /
|          \ (           _/
|          \_)

```

16. Re: [APRSSIG:972] Sorry still wont work

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
 Date: Mon, 1 May 1995 16:56:38 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950501165339.1563C-100000@greatlakes.nadn.navy.mil>
 Rendered body type: text/plain

On Mon, 1 May 1995 wnolle@fly.HiWAAY.net wrote:

```
> Bob Bruninga. I must either be very very unfamiliar with
> APRS or i'm going crazy (Don't say it). But i can save the
> unproto path's without any problem , and they do show in the
> list. As you suggested after enetering the different digi path's
```

17. Re: [APRSSIG:956] Re: Bob, now yo...

18. Road trip

19. Brain Lock

```

      .-----o-----o-----o000.-----
      |
      |      KE4EER
      |      APRS 145.790Mhz
      |      3458 ' 34N-08629 ' 53W
      |      0000.
      |      .0000      ( )
      |      ( )      /

```

\ (_/
 _)

20. Connection to Ultimeter II

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Tue, 02 May 1995 08:28:33 -0600
To: aprssig@tapr.org
Message-ID: <9505020828.AA33157@oscar.cayman.adclab.bls.com>
Rendered body type: text/plain

I have set up my U-II and plugged in the cable that I got from Peet Bros. Into that cable I have plugged in a Mac to Hayes modem hardware handshake cable, then plugged it into my Mac. What communications settings do I use? Have I done something wrong? I don't find anything in the Peet Bros. or the MacAPRS documentation.

TIA
Bruce

21. Re: [APRSSIG:966] Lessons learned enroute DAYTON

From: calldrin@sierra.net (Chuck Alldrin)
Date: Tue, 2 May 1995 08:18:11 -0700
To: aprssig@tapr.org
Message-ID: <199505021518.AA02612@diamond.sierra.net>
Rendered body type: text/plain

Bob, my comments are: "GO FOR IT"

Any changes to simplify and condense the program would be great.
Also I like the idea of a "GOOD" bug free version that will work. The many version that come out every week or so is KUNFUSING to us mortal souls!
As per my comment to you on the phone.. I'm looking for a "SLIM FAST", "LITE", version with no bells etc. for back ground multitasking and portable use.

Keep up the good work.

73 and cul

Chuck Alldrin Chico, CA.

>Driving my old klunker with APRS 68a/b running on a FLOPPY CGA 8088
>LAPTOP (looks great in the sunshine!) to Dayton made me learn a few lessons
>plus many comments from users that I will fix soon:
>
>1) The recent move to separate TEXT and MAP screen does not work on this
>laptop. So EVERY time you depart the MAP screen, and come back it must
>be re-drawn (1 minute or more)...
>
> A) Therefore, when a Message or an ACK comes in and switches you to
>the mail screen, you involuntarily loose your map! (another minute wasted)
>
> B) Same goes for sending messages.... (you loose the map)
>
>2) On power up, (3 minutes or more) APRS draws the CONFIG file map (my
>home town) BUT I WAS IN DAYTON! I will make it so that if you are config'ed
>for any of the GPS modes, APRS will NOT automatically start up with a MAP
>display. It will go straight to the P-list so that when your GPS finally
>gets a new fix, then you may draw the CORRECT map where you are NOW.
>
> A) APRS shows which map it is drawing, but otherwise there is no way
>to tell which map you are on without asking for a re-draw (BIG pain when it
>takes 80 secs to draw!)
>
>OTHER COMMENTS RECEIVED AND CHANGES I WILL WORK ON:
>
>3) Make it so that if you are in HSP and turn it off, that you do NOT
>then have to re-validate to turn it back on....
>
>4) Up the current 99 MAP labels limit
>
>5) if you hit F7 to go to 43 line mode on a cga (my laptop) it crashes
>
>6) Add a new LINE symbol like the NWS uses... "thunderstorms +/- 50
> miles of a line between..."
>
>7) Add Police car symbol (exists) to VEHICLES menu (its not there)
> (useful for plotting "smokey" reports..) (2nd aircraft is also missing)
>
>8) The new NWS WX symbols do NOT show up on the map with the JUST-WX
>command.
>
>STILL MORE TO CONSIDER....

>
>8) Add automatic port switching for the PKxxx or was it the MFJ 1278..?
>Someone said that all I have to do is switch Hbaud between 1200 and 300
>and turn VHF on&off...
>
>9) Dont release so many versions....
>
>
>

22. Used Motorola GPS receivers

From: George.Henry@f668.n115.z1.fidonet.org (George Henry)
Date: 02 May 95 11:40:22 -0600
To: aprssig@tapr.org
Message-ID: <107_9505021130@chigate.fidonet.org>
Rendered body type: text/plain

I am forwarding this message, posted to my BBS by one of my users. These are the same units which I posted about before. I have one, and WOW are they NICE!!! (AND a steal at this guy's price.....) The MOTOROLA.BAS program which comes with APRS sets them up in NMEA with RMC sentence output beautifully.

begin forwarded message:

GPS Receivers for sale.

I have a limited supply of USED GPS receivers for sale:

Motorola PVT-6
Active Antenna
New mounts
New RF cables

\$150 , plus \$5 shipping

These receivers are the PVT-6 model in the metal box, built like a tank! They require 12vdc and draw about 150ma. The clock and memory can be backed up with an external voltage source (draws 300ua), I use a 9V battery . When the backup battey is on the receiver it will come up and lock in seconds. The receiver output is set to NMEA and can be programed for GGA, RMC, GLL,GSA,GSV,VTG,ZDA messages.

The receivers can be removed from the case, but you will need to keep the internal interface cables. I will include cable diagrams and basic programming information, all that I have!

If you have any questions please email me at 73227.2220@compuserve.com (I have a new CI\$ mail reader that should be more reliable). If you want to order one please email me so I can save it for you and send the money to:

PalmTop Software
PO BOX 353
Winfield, IL 60190

I already have several orders (thanks George) and I hope I have responded to all of your emails. If you must call, you can try my "office phone" at (708) 649-8590, I check the voice mail often. I have a real job and PalmTop Software is a dream so use EMAIL.

73 KF90A

end forwarded message

73 de KA3HSW

23. CD-ROM

From: wno1le@fly.HiWAAY.net
Date: Tue, 2 May 95 11:57:36 CDT

I want to get into the CD-Rom map making aspect of APRS.
my question is where can you get these CD-Rom's. I noticed
there are several version if i'm understanding this right?..
Sure would appreciate some info on this subject. Like what's
needed and required to get started, time is no object Hi..

```

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      |
      |          KE4EER
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      |_____|_____
              0ooo.
            .oooo  ( )
           ( )      ) /
             \ (     _ /
               \ \

```

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Tue, 02 May 1995 12:48:56 -0500
To: aprssig@tatr.org, aprssig@tatr.org
Message-ID: <9505021647.AA15928@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 10:27 AM 5/2/95 0500, Chuck Alldrin wrote:
>Bob, my comments are: "GO FOR IT"
>Any changes to simplify and condense the program would be great.
>... I'm looking for a "SLIM FAST",
>"LITE", version with no bells etc. for back ground multitasking and portable
>use.
```

I will second that.

In fact there is a partial answer, that works at least with the macintosh version. MacAprs is able to open a "raw data file", i mean by raw data file an ascii file containing the strings that come from the tnc, as one would see with a terminal program. You just let any terminal program grab the data and save them in the background, and when you want to see what happens you just start aprs and open this file to see all the stations, messages...

I was not able to "import" a raw data file in aprs for PC, is it possible? If not i think this should be a simple (hum, perhaps not so simple for the programmer) improvement to the program.

Bernard, KB2TGH

From: janderson@infotac.ram.net (Jack Anderson)
Date: Tue, 2 May 95 14:18:07 -0400
To: aprssig@tapr.org
Message-ID: <15021591.23@infotac>
Rendered body type: text/plain

Please wait a moment

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 2 May 1995 15:15:55 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950502151334.8859F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 2 May 1995, Bernard Seront wrote:

```
> In fact there is a partial answer, that works at least with the macintosh
> version. MacAprs is able to open a "raw data file", i mean by raw data file
> an ascii file containing the strings that come from the tnc, as one would
> see with a terminal program. You just let any terminal program grab the data
> and save them in the background, and when you want to see what happens you
> just start aprs and open this file to see all the stations, messages...
> I was not able to "import" a raw data file in aprs for PC, is it possible?
```

APR (PC) reply: No. APRS only looks at data off the air. There is a utility program called GPStoHST.bas that will convert raw GPS NMEA data to the APRS TRACK HISTORY format for REPLAY...

27. Dayton '95

From: Tim Smith <TSMITH@fibusa.com>
Date: Tue, 02 May 95 15:22:00 PDT
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2FA6AB88@ipnovell.fibusa.com>
Rendered body type: text/plain

Thanks to all for the great APRS demos put on at Dayton...to me (a newcomer) it was worth the trip from New England just to see this exciting new technology. While there I picked up a new TNC and a Magellan Trailblazer GPS to get started. Alread interfaced the Trailblazer to my notebook with Bob's APRS 6.8B and am able to track movement in the car. Next step is to get TNC hooked up whe I return from a short business trip. Thanks again to the Sproul brothers and Bob for a great job.

73,

Tim Smith
N1BTQ@KC1UA.MA
tsmith@fibusa.com
tsmith@umassd.edu
tsmith@interramp.com
4139.12N 7046.41W

28. FTP Sites

From: "Steve Davis" <STEVE@z12ucx.gen.nz>
Date: Wed, 3 May 1995 08:27:54 +1200
To: aprssig@tapr.org
Message-ID: <269ED35CE0@zeus.z12ucx.ampr.org>
Rendered body type: text/plain

I am fairly new to the list, have been interested in APRS for the PC for a while, but do not have the current versions.

I used to get it from ftp.ucsd.edu but have not seen it there for a while.

Can someone let me know what ftp site Bob uses as the primary distribution site.

Thanks & 73's
Steve

```
-----
Steve Davis ZL2UCX           | Internet: steve@z12ucx.gen.nz
P O Box 120                   | Packet:  z12ucx@z13ac.#80.nzl.oc
Christchurch                  |
New Zealand                   | Fax:      +64-3-343-0461
-----
```

29. NYC Area Voice Repeater

From: eashway@VNET.IBM.COM
Date: Tue, 2 May 95 22:09:47 EDT
To: aprssig@tapr.org
Message-ID: <199505030209.VAA04580@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

Voice Repeater close to APRS in NYC

For the past several weeks throughout the New York City metropolitan area APRS users have been plagued with the output of a voice repeater system known as the 'KQ2H Repeater System'. The area affected includes Northern New Jersey, New York City, Long Island, and Southwestern Connecticut. This repeater system has inputs and outputs on 10 Meters, 6 Meters, 220 MHz, & 440 MHz. There is no known input on 2 Meters.

However for some unknown reason the operators of this repeater system have implemented a 2 Meter output on 145.795 and have installed the transmitter on top of the 2400' World Trade Center building in NYC. When this transmitter is operating, all APRS activity in the NYC metropolitan area comes to a halt.

After several weeks of monitoring traffic on this repeater system, not once have I heard anyone complaining of interference from packet activity. This would seem to imply that users of this 2 meter output are few and far between, for if there were many users, they would be hearing interference from the APRS packet activity just 5 KHz away on

145.790.

I would like to suggest if there are APRS users that are also users of this repeater system, that they contact the operator(s)/trustee(s) to see if an agreement could be worked out as to the operating characteristics of the 2 Meter output of this repeater system.

I have no qualm with anyone who uses our Amateur Radio frequency spectrum whenever and wherever he or she chooses. However I do have a problem if that use appears to be for non-existing listeners, or is an overkill for the intended area of coverage, or is done without consideration for other users of nearby frequencies.

Hopefully this difference of intended spectrum use can be worked out and we can all make use of the airways in a mature adult mode of peaceful coexistence.

73 - Ed - W9KTH (Southwestern CT)

PS: 10 Meter Output is 29.614 FM (can't find input there either)

30. BUG FREE VERSION WANTED

From: K2ADJ@aol.com
Date: Tue, 2 May 1995 22:34:16 -0400
To: APRSSIG@tapr.org
Cc: Bruninga@greatlakes.nadn.navy.mil
Message-ID: <95050222344_104727949@aol.com>
Rendered body type: text/plain

I have been reading some SIGS today where folks have been asking for not so many updates and want to wait till he has all the buggies worked out of it before it is released..

Well Gentlemen, there are two ways to look at this, yes, Bob can continually hold back until he is assured that everything you fellows hook up to his program will work, that could take months, if not years.. Therefore, everytime Bob makes some changes in his program and it appears to be working all OK, then he lets it out so you fellows can play with it and report back to him any faults that you find with it.. The more faults you find, the better the program will become.. Remember, every time Bob hits the CODE he is changing something and it definitely could affect another part of the program, Bob is no mind-reader, hi.

Also by you picking up the latest release you are on the forefront of the technology of this new tool or toy and can play with something new and by doing so, can see new ways to use this program, that's what it is all about.

If you are one of those that are satisfied with a previous version cause it was bug free, then sit there and run it to your hearts content. Remember, you only PAID for your first release, all these new ones coming out are FREE for you!

Remember MACAPRS by Keith Sproul, he too is a codesmith and I am quite sure that there might be a bug or two in his work but let him know about it and it will NOT be there in the next release!

Now as I step down off my soap box, please, no applause, just throw money...

73 de Rod

31. Re: [APRSSIG:986] NYC Area Vo...

From: W2H0B@aol.com
Date: Wed, 3 May 1995 05:46:58 -0400
To: aprssig@tapr.org
Message-ID: <950503054657_105077608@aol.com>
Rendered body type: text/plain

The last time I heard the KQ2H thing, it signed its call as KQ2H/A which implies AUXILIARY station such as a link. That is only authorized above 220-MHz and I put out a multiline bulletin that inferred someone should contact TSARC and ask about it.

I understand the callsign trustee is unresponsive. What about a certified letter that he would have to sign for? What about a call to the FCC? I would hate to blow the whistle on "one of our own", but if everything else fails...

My QRZ CD-ROM lists the following for that call:

Alex Muzyka, KQ2H
75 Somers Avenue
Bergenfield, NJ 07621

Born: 01-15-65
Previously: KC2FO

Bell Atlantic-NJ Directory Assistance says there are two MUZYKAs listed but with NONPUB numbers.

Hope some of this helps. I too hear that station in South Jersey (Burlington Co), but it doesn't affect us down here as much as it would NNJ, NY, etc.
Good luck guys!

73 de Boyd W2HOB

32. Re: [APRSSIG:987] BUG FREE VE...

From: W2HOB@aol.com
Date: Wed, 3 May 1995 05:47:03 -0400
To: aprssig@tapr.org
Message-ID: <950503054658_105077610@aol.com>
Rendered body type: text/plain

I agree with Rod, K2ADJ, regarding the fact that we are all BETA testers for Bob and Keith, depending on which platform you run APRS. Keeping that in mind, we have to experience the bugs to be able to advise Bob and Keith... otherwise, those bugs will continue to show up in each subsequent release.

I started with version 2.10 so ya'll can see how long I've been on the "leading edge"! My phone bill runs into the hundreds each month. I don't dare tell my wife how many times I've been calling ARN BBS in Maryland just to see if there's been an update posted, Heh Heh.

I say keep the code flowing. I eagerly await even the slightest change even if it is for a feature that I wouldn't normally use. It also allows me the opportunity to ask Bob for something, conscious-free!

73 de Boyd W2HOB

33. Re: [APRSSIG:987] BUG FREE VERSION WANTED

From: Kent Larson <klarson@access.digex.net>
Date: Wed, 3 May 1995 07:48:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950503074245.27044A-100000@access5.digex.net>
Rendered body type: text/plain

I agree. I practice selective upgrading myself. If I have the time I will experiment with the latest versions, if I do not I wait to upgrade and let others do the bleeding. Whatever Bob decides to do is fine by me but the current release schedule works for me.

Kent - KD4SJJ

On Tue, 2 May 1995 K2ADJ@aol.com wrote:

> I have been reading some SIGS today where folks have been asking for not so
> many updates and want to wait till he has all the buggies worked out of it
> before it is released..
>
> Well Gentlemen, there are two ways to look at this, yes, Bob can continually
> hold back until he is assured that everything you fellows hook up to his progr
> am will work, that could take months, if not years.. Therefore, everytime Bob
> makes some changes in his program and it appears to be working all OK, then
> he lets it out so you fellows can play with it and report back to him any
> faults that you find with it.. The more faults you find, the better the
> program will become.. Remember, every time Bob hits the CODE he is changing
> something and it definitely could affect another part of the program, Bob is
> no mind-reader, hi.
>
> Also by you picking up the latest release you are on the forefront of the
> technology of this new tool or toy and can play with something new and by
> doing so, can see new ways to use this program, that's what it is all about.
>
> If you are one of those that are satisfied with a previous version cause it
> was bug free, then sit there and run it to your hearts content. Remember, you
> only PAID for your first release, all these new ones coming out are FREE for
> you!
>
> Remember MACAPRS by Keith Sproul, he too is a codesmith and I am quite sure

> that there might be a bug or two in his work but let him know about it and it
> will NOT be there in the next release!
>
> Now as I step down off my soap box, please, no applause, just throw money...
>
> 73 de Rod
>
>
>

34. Re: [APRSSIG:987] BUG FREE VERSION WANTED

From: rwf@mindspring.com (rwf)
Date: Wed, 03 May 1995 08:40:50 -0500
To: aprssig@tapr.org
Message-ID: <199505031242.IAA21256@dylan.mindspring.com>
Rendered body type: text/plain

I applaud Bob and his work. This man is dedicated to his program! I've seen this application continue to mature over the past couple of years and it is refreshing to be able to help "test" new versions.

If persons are having issues with things not quite working right, then I would like to suggest that they use a version with which they feel comfortable.

I'd like to see the updates as they occur.

Please keep 'em coming, Bob!!

Ralph Fowler, N4NEQ,
who likes to be on the bleeding edge!

35. Re: [APRSSIG:987] BUG FREE VERSION WANTED

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Wed, 3 May 1995 08:51:26 +0000
To: aprssig@tapr.org
Message-ID: <9505031247.AA22607@oriola.ustc.vlsi.COM>
Rendered body type: text/plain

It is very easy to forget that this is Amateur Radio and One of the major goals of HAM radio is experimentation. If you want bug free software (if such a thing exists) wait till 1996 and buy Microsoft windows 95.

>I have been reading some SIGS today where folks have been asking for not so
>many updates and want to wait till he has all the buggies worked out of it
>before it is released..
>

>Well Gentlemen, there are two ways to look at this, yes, Bob can continually
>hold back until he is assured that everything you fellows hook up to his progr
>am will work, that could take months, if not years.. Therefore, everytime Bob
>makes some changes in his program and it appears to be working all OK, then
>he lets it out so you fellows can play with it and report back to him any
>faults that you find with it.. The more faults you find, the better the
>program will become.. Remember, every time Bob hits the CODE he is changing
>something and it definitely could affect another part of the program, Bob is
>no mind-reader, hi.
>

>Also by you picking up the latest release you are on the forefront of the
>technology of this new tool or toy and can play with something new and by
>doing so, can see new ways to use this program, that's what it is all about.
>

>If you are one of those that are satisfied with a previous version cause it
>was bug free, then sit there and run it to your hearts content. Remember, you
>only PAID for your first release, all these new ones coming out are FREE for
>you!
>

>Remember MACAPRS by Keith Sproul, he too is a codesmith and I am quite sure
>that there might be a bug or two in his work but let him know about it and it
>will NOT be there in the next release!
>

>Now as I step down off my soap box, please, no applause, just throw money...
>
>73 de Rod

Bob Baltz	*
Chesapeake Region Sales	*
Ph:(410) 987- 8777	*
Fax: (410) 987-8777	*
E-mail bob.baltz@ustc.vlsi.com	*

36. Re: [APRSSIG:979] Used Motorola GPS receivers

From: JKANDEL@umiami.ir.miami.edu
Date: Wed, 03 May 1995 09:17:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HQ270WJJZGA4M4BT@umiami.ir.miami.edu>
Rendered body type: text/plain

r
tried APRS on an HP 200LX? Can it be run on a flash card? Is the CGA screen a limitation? Would be interested to know if you've explored that?

Joel Kandel, KI4T
jkandel@gate.com

37. Re: [APRSSIG:992] Re: BUG FREE VERSION WANTED

From: Bob Lorenzini <wd6dod@wd6dod.ampr.org>
Date: Wed, 3 May 1995 07:18:57 -47900
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9505030727.B154-0100000@wd6dod.ampr.org>
Rendered body type: text/plain

On Wed, 3 May 1995, Bob Baltz wrote:

> It is very easy to forget that this is Amateur Radio and One of the major
> goals of HAM radio is experimentation. If you want bug free software (if
> such a thing exists) wait till 1996 and buy Microsoft windows 95.
>

That is really funny. :-)

Bob - wd6dod
bobl@citpac.gps.caltech.edu

38. Re: [APRSSIG-986] NYC Area V

From: "Dana Rodakis" <dgra@qmgate.eci-esyst.com>
Date: 3 May 1995 09:03:07 -0400
To: aprssig@tapr.org
Cc: "Ed Ashway" <eashway@VNET.IBM.COM>
Message-ID: <n1412623984.8209@qmgate>
Rendered body type: text/plain

Reply to: RE>[APRSSIG:986] NYC Area Voice Repeater

>However for some unknown reason the operators of this repeater system
>have implemented a 2 Meter output on 145.795 and have installed the

FCC rules prohibit repeaters from receiving or transmitting on 144.0 through 144.5 and 145.5 through 146.00. KQ2H is violating FCC rules with an output there - plain and simple! It is up to the local hams to get the FCC involved to report this guy. Any ham who operates a repeater without knowing the rules needs to be set straight.

Try rechecking the 10 meter output, it should be 29.62 and the input offset should be -100 KHz (input frequency 29.52), according to the ARRL band plan. It is possible that he is ignoring the ARRL band plan as well as the FCC rules.

73, Dana Rodakis, AJ1R
Trustee and co-builder of a 6-repeater audio/video system in
St. Petersburg, FL

39. re:APRS on HPxxLX, for KI4T

From: Jon_Dickason@wb.xerox.com
Date: Wed, 3 May 1995 08:31:36 PDT
To: aprssig@tapr.org
Message-ID: <"<AE9FA72F81CC2776>AE9FA72F81CC2776@x-wb-0129-msl.xerox"@-SMF->
Rendered body type: text/plain

Joel, I run APRS on my HP100LX. It is slow drawing maps, but it works. I have just the U.S. and my local map. It takes up about 400K on my RAM card. The program needs too much RAM to run it from system manager, so I have to unload all applications.

Jon Dickason, N2JAC@WB2PSI
APRS on 144.39 in Rochester NY
Jon_Dickason@wb.xerox.com

40. HF Automatic control of Digital stations - APRS

From: kinahan@ws007-fddi.bytex.network.com (Tom Kinahan @ws007)
Date: Wed, 3 May 95 11:37:16 EDT
To: aprssig@tapr.org
Message-ID: <9505031537.AA06106@ws007-fddi>
Rendered body type: text/plain

Anybody have a hint as to how HF Automatic control of digital stations might affect HF APRS operations?

Can an APRS station be in automatic control on HF? Since it is usually "unconnected" operations must be in the specified band sections.

I've included an ARRL bulletin.

- Tom Kinahan N1CPE
kinahan@bytex.network.com

----- Begin Included Message -----

>From uunet!netcom.com!owner-wlaw-list Wed May 3 10:43:06 1995
Return-Path: <uunet!netcom.com!owner-wlaw-list>
Subject: ARLB047 HF auto digital detailed
To: uunet!arrl.org!QST
From: uunet!arrl.org!wlaw
Organization: American Radio Relay League
Date: Tue, 02 May 1995 19:42:14 EDT
Sender: uunet!netcom.com!owner-wlaw-list
Content-Length: 1447

SB QST @ ARL \$ARLB047
ARLB047 HF auto digital detailed

ZCZC AG14
QST de W1AW
ARRL Bulletin 47 ARLB047
>From ARRL Headquarters
Newington CT May 2, 1995
To all radio amateurs

SB QST ARL ARLB047
ARLB047 HF auto digital detailed

The FCC has released its Report and Order in PR Docket 94-59, concerning HF digital communications in the Amateur Radio Service. The new rules, effective July 1, 1995, permit automatically controlled HF RTTY and data stations to communicate with one another in the following segments: 28.120 to 28.189, 24.925 to 24.930, 21.090 to 21.100, 18.105 to 18.110, 14.095 to 14.0995, 14.1005 to 14.112, 10.140 to 10.150, 7.100 to 7.105, and 3.620 to 3.635 MHz.

The new rules also permit manually controlled stations to initiate communication with automatically controlled HF RTTY and data stations. In this case the automatically controlled station may use any frequency authorized for such emissions, but may occupy a bandwidth of no more than 500 Hz.

Automatic control must cease upon notification by an FCC engineer in charge that the station is transmitting improperly or causing interference to other stations.

The FCC said it recognized the concerns of those who opposed the proposal on grounds that such operation could interfere with other amateurs, but that it believed the provisions adopted would be adequate to minimize such interference.

More information is on page 71, August 1994 QST.
NNNN
/EX

----- End Included Message -----

41. stuff

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 3 May 1995 15:40:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950503152514.21634C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

More feedback to users from comments at Dayton:

1) Someone said that you cannot configure for WIDE, and have it saved in the CONFIG file. ANS: It looks OK to me. I cant find a problem in the code. I did find that if you EVER change from VHF to HF or HF to VHF, that your ALIAS is re-written to either ECHO or RELAY. THAT WILL cause you to loose WIDE.

2) KE4EER and one other station reported difficulty in saving an OPS-DIGI path. I found that it only works AFTER you have saved a CONFIG file and AFTER re-starting APRS. So you are NOT loosing your brains... There WAS a problem, hi hi. Will be fixed in 68c.

3) Someone reported at Dayton that you can DOWNLOAD GPS POST-PROCESSING DIFFERENTIAL CORRECTION data from the University of Iowa at Ames Iowa. This means that you can go backwards in time with a track history and correct it AFTER the fact to plot a precise track. I donno anything more about it than this. Even the addresses above are guesses from the conversation. Anyone looking for a neat project may want to explore this.

4) I am adding DUALPORT transmit for the KAM. APRS will send out TWO of everything. One to the VHF port, and the other to the HF port.

42. Re: [APRSSIG:993] Re: Used Motorola GPS receivers

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Wed, 3 May 1995 13:19:24 -0700
To: aprssig@tapr.org
Message-ID: <199505032019.NAA02260@ix3.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>r
>tried APRS on an HP 200LX? Can it be run on a flash card? Is the CGA
screen a
>limitation? Would be interested to know if you've explored that?
>
>Joel Kandel, KI4T
>jkandel@gate.com
>
Do it all the time...yeah it's a little slow, but it works. I delete
the unnecessary maps and tweak the maplist for those I need. Works
like a champ.

Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

43. KPC-3 can do two digicalls

From: janderson@ram.net (Jack Anderson)
Date: Wed, 03 May 95 17:31:44 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0b9b@ram.net>
Rendered body type: text/plain

Bob,

I just discovered that the KPC-3 has a THIRD callsign that can be used as a digipeater address! What this means for APRS is that it can be used as a RELAY-WIDE digipeater!

The advantage of having every APRS digipeater respond to EITHER the call of WIDE or RELAY completes the "generic" concept already partially implemented. Presently with home stations being RELAYs and digipeaters being WIDES, there are in effect two in-compatible networks through which a MOBILE might travel. If the mobile is far from a WIDE, then his FIRST digi must be RELAY. If he is near a WIDE, then his first digi should be WIDE. By having the digipeaters respond to EITHER, then most MOBILES can choose the path of RELAY,WIDE routinely and RELAY,WIDE,WIDE for long distance events.

Does anyone see a problem with this??

Oh yes, the third callsign in the KPC-3 is the MYnode call. Set MYalias to WIDE, MYnode to RELAY and set users to one and do NOT use it as a node. The NODE call will also digipeat.

44. Motorola GPS ad - phone # correction

From: George.Henry@f668.n115.z1.fidonet.org (George Henry)
Date: 03 May 95 14:19:10 -0600
To: aprssig@tapr.org
Message-ID: <12e_9505031530@chigate.fidonet.org>
Rendered body type: text/plain

The phone number for Bob, KF90A, was incorrect in the ad I forwarded for the used Motorola PVT-6 GPS receivers:

The correct phone number is (708) 648-8590, not 649-

73 de KA3HSW

45. Re: [APRSSIG:992] Re: BUG FREE VERSION WANTED

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Wed, 3 May 1995 18:20:56 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9505031855.A7177-a100000@acme>
Rendered body type: text/plain

On Wed, 3 May 1995, Bob Baltz wrote:

> It is very easy to forget that this is Amateur Radio and One of the major
> goals of HAM radio is experimentation. If you want bug free software (if
> such a thing exists) wait till 1996 and buy Microsoft windows 95.
>

Windows 95 in 96 ? Gawd I love an optimist.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address: KB8JX0@W8CQK.#CMH.OH.USA
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 137th most knowledgeable person about A.P.R.S.

46. Re: [APRSSIG:1001] Motorola GPS ad - phone # correction

From: philkeys@olympus.net (Phil Keys)
Date: Wed, 3 May 1995 16:29:53 -0800
To: aprssig@tapr.org
Message-ID: <199505032326.QAA20025@olympus.net>
Rendered body type: text/plain

I missed your original post on the GPS receivers. Could you please send it to me?

Thanks
Phil Keys
KJ7ET

--

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (206) 379-8650 122 44.0W 48 02.0N

47. Re: [APRSSIG:986] NYC Area Voice Repeater

From: jgarrett@world.std.com (John Garrett)
Date: Wed, 03 May 1995 23:10:29 -0400
To: aprssig@tapr.org
Message-ID: <bM4gImPA4QTH065yn@World.std.com>
Rendered body type: text/plain

" Voice Repeater close to APRS in NYC

"

" For the past several weeks throughout the New York City metropolitan
" area APRS users have been plagued with the output of a voice repeater
" system known as the 'KQ2H Repeater System'. The area affected includes
" Northern New Jersey, New York City, Long Island, and Southwestern
" Connecticut. This repeater system has inputs and outputs on 10 Meters,
" 6 Meters, 220 MHz, & 440 MHz. There is no known input on 2 Meters.
"

" However for some unknown reason the operators of this repeater system
" have implemented a 2 Meter output on 145.795 and have installed the
" transmitter on top of the 2400' World Trade Center building in NYC.
" When this transmitter is operating, all APRS activity in the NYC
" metropolitan area comes to a halt.

[stuff deleted]

Hmm. At least the ARRL bandplan for 2m shows that part of the band for experimental and simplex use. Not that the folks with the repeater won't be gentlemen, but I don't know if that holds any sway with them. Good luck!

When I was recently in NYC, I put my 1W radio with the rubber duck in my hotel window deep in midtown, and had 4-1/2 pages of posits the next morning; I was deeply impressed!

John
WN9T

48. Motorola GPS receivers SOLD

From: George.Henry@f668.n115.z1.fidonet.org (George Henry)
Date: 03 May 95 18:27:15 -0600
To: aprssig@tapr.org
Message-ID: <136_9505032259@chigate.fidonet.org>
Rendered body type: text/plain

I have just been informed by KF90A that ALL the used Motorola GPS receivers are SOLD.

(MAN these babies are NICE!!!)

73 de KA3HSW

... Of course I like Motorola! See this big "M" on my chest???
--- Blue Wave/Max v2.10

49. Re: [APRSSIG:1000] KPC-3 can do two digicalls

From: Kent Larson <klarson@access.digex.net>
Date: Thu, 4 May 1995 07:34:20 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950504073339.10842A-100000@access5.digex.net>
Rendered body type: text/plain

Neat, neat, neat, neat, neat.....

Kent

On Wed, 3 May 1995, Jack Anderson wrote:

> Bob,
>
> I just discovered that the KPC-3 has a THIRD callsign that can be used as
> a digipeater address! What this means for APRS is that it can be used
> as a RELAY-WIDE digipeater!
>
> The advantage of having every APRS digipeater respond to EITHER the call of
> WIDE or RELAY completes the "generic" concept already partially implemented.
> Presently with home stations being RELAYS and digipeaters being WIDES, there
> are in effect two in-compatible networks through which a MOBILE might travel.
> If the mobile is far from a WIDE, then his FIRST digi must be RELAY. If he is
> near a WIDE, then his first digi should be WIDE. By having the digipeaters
> respond to EITHER, then most MOBILES can choose the path of RELAY,WIDE
> routinely and RELAY,WIDE,WIDE for long distance events.
>
> Does anyone see a problem with this??
>
> Oh yes, the third callsign in the KPC-3 is the MYnode call. Set MYalias
> to WIDE, MYnode to RELAY and set users to one and do NOT use it as a
> node. The NODE call will also digipeat.
>
>
>
>

50. RE: [APRSSIG:1001] Motorola GPS ad - phone # correction

From: Herbert Lamont Crosby <hcrosby@phoenix.net>
Date: Wed, 3 May 95 19:49:18 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.950503194957.hcrosby@hcrosby.phoenix.net>
Rendered body type: text/plain

you should be getting a check and thanks for the update... looking forward to getting one soon.
herb

51. MAKEMAPS.bas for 2,000,000 maps

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 4 May 1995 10:02:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950504093521.27607A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I received a few weeks ago, a copy of a program written by KB4XF, Jack Cavanaugh of Fredericksburg VA (he wrote it a year ago! but assumed that it was obsolete when MAPFIX came out with CDRom capability) I finally got around to running it. WOW!

This program does the job of the USGS XTRACT.exe program AND my MAPFIX.bas program in ONE step! All you do, is select the state, and give a LAT/LONG and range for the center of the desired map.

It builds an APRS compatible map directly and uses a brute force method to get the number of points down to around 4 to 5000. By limiting the size of your requested map (about 40 miles in the east to maybe 70 in the rural west) you can minimize any effect of this built-in reduction process. If you then load this map into MAPFIX and use the more intelligent alt-SMOOTH command, you can easily get the number of points below 3000 with minimum manual steps.

MAKEMAPS takes from 5 minutes to an hour to run (depending on your machine) but requires NO HUMAN intervention!

Load the result into MAPFIX and successively use the alt-SMOOTH process at 1.2, then 1.3, then 1.4 and so on, until you have the number of points down to about 3500 or so. At this point you may want to go through and manually smooth out some really jagged county lines and eliminate the DUPLICATE second lanes of many multi-lane highways (at these scales, these are always IDENTICAL at all ZOOM ranges) To see if a duplicate line is there, use the FIND command on a midpoint (not an intersection) and then do a CTRL-FIND to see if there is a second point at the same spot.

MAKEMAPS.bas includes everything on the CD except for railroads and administrative boundaries. To see a typical map, zoom into my North Tennessee map TNnorth.map included in version 6.8b. It includes roads, rivers, lakes, and political boundaries.

This program will be posted on ARN by FRIDAY NIGHT, May 5th.

52. CHEAP barometric sensors!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 4 May 1995 10:24:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950504100255.27607B@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

While watching a technician gluing strain gages to a model aircraft wing yesterday, I realized the OBVIOUS way to make a BAROMETRIC SENSOR!

Consider the clear plastic coke bottle. By wrapping a thin single layer flat coil of very fine wire around its mid-section (maybe 10 turns or so, and glueing it in place, you will have a resistive strain gauge around the bottle. Add a wheatstone bridge circuit (where the second balance leg is made out of a similar length of un-stressed wire which will compensate for temperature variations) and you are done!

Hook the wheatstone bridge output to the GAME PORT of a PC, and I can easily incorporate it into APRS!

Anyone out there got time to make this work???

There are TWO specific packages that I need to find:

- 1) something smaller than a coke bottle, but which has the same positive sealing capability (simply to reduce the bulk)
- 2) something similar in size but with a WIDE mouth, so that we can put our balloon payload INSIDE. We have a 60% chance of landing in water around here...

53. Re: [APRSSIG:1000] KPC-3 WIDE/RELAYS! WOW!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 4 May 1995 10:55:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950504102720.27607D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 3 May 1995, Jack Anderson wrote:

> I just discovered that the KPC-3 has a THIRD callsign that can be used as
> a digipeater address! What this means for APRS is that it can be used
> as a RELAY-WIDE digipeater!
>
> By having the digipeaters
> respond to EITHER, then most MOBILES can choose the path of RELAY,WIDE
> routinely and RELAY,WIDE,WIDE for long distance events.
>
> The third callsign in the KPC-3 is the MYnode call. Set MYalias
> to WIDE, MYnode to RELAY and set users to one and do NOT use it as a
> node. The NODE call will also digipeat.

APR REPLY: FANTASTIC! This is what I have been hoping for in a digipeater. Not only does it solve the MOBILE's problem, but is also has a very important impact on the health of the network as follows:

RELAY-WIDE NETWORK: With all WIDE digipeaters also being able to digipeat RELAY packets, ALL MOBILES can then set an UNPROTO path of APRS via RELAY,WIDE... They will be digipeated by ANY home station or WIDE digipeater NO MATTER WHERE THEY ARE.

The importance of this capability is that it NOT ONLY SOLVES THE MOBILES problems of how to set his UNPROTO path, but it also removes the contradictory requirements on the WIDE digis. Until now, the need to keep digipeaters WIDELY spaced for network efficiency has been counterbalanced by the need to have more WIDES wherever mobiles may travel.

With the new RELAY-WIDE digipeater capability, we can GET RID OF ALL LOCAL WIDES and RETAIN only the widely spaced (long range) WIDES. The short-range local wides just revert to normal RELAY home stations.

THIS IS THE BEST NEWS TO APRS NET BUILDING IN YEARS!

If your digipeater can be made into a WIDE-RELAY, then include the words WIDE-RELAY in the BText, so we can see it. This is neat! (am I overlooking something???)

54. Re: [APRSSIG:980] CD-ROM

From: DDOBBINS@aol.com
Date: Thu, 4 May 1995 11:20:19 -0400
To: aprssig@tapr.org
Message-ID: <950504112017_106584910@aol.com>
Rendered body type: text/plain

Call 1-800-USA-MAPS, it's the USGS. Order either the 1:100,000 or 1:2million for your area, in OPTIONAL FORMAT. Good luck, I ordered the 100,000, and it's difficult, and time consuming. Pointing myself towards doing maps with a graphics tablet. 73, Dave, WH6YC.

55. Re: [APRSSIG:1009] CHEAP barometric sensors!

From: miles@mail.utexas.edu (Miles Abernathy)
Date: Thu, 4 May 1995 10:37:49 -0500
To: aprssig@tapr.org
Message-ID: <v01520c02abce5e5a140d@[128.83.159.101]>
Rendered body type: text/plain

>While watching a technician gluing strain gages to a model aircraft wing
>yesterday, I realized the OBVIOUS way to make a BAROMETRIC SENSOR!
>
>Consider the clear plastic coke bottle. By wrapping a thin
>single layer flat coil of very fine wire around its mid-section (maybe 10
>turns or so, and glueing it in place, you will have a resistive strain gauge
>around the bottle. Add a wheatstone bridge circuit (where the second
>balance leg is made out of a similar length of un-stressed wire which
>will compensate for temperature variations) and you are done!
>
>Hook the wheatstone bridge output to the GAME PORT of a PC, and I can
>easily incorporate it into APRS!

A good idea! Temperature compensation might be needed. The bottle shrinks and the resistance drops as temperature falls.

Inside a styro case (with a balloon payload), the temperature change might be too small to worry about.

```
-----
| Miles Abernathy, N5K0B | "I urge you to dream - I did, and one |
| U. of TX, P O Box 7580 | day I found myself standing on the |
| Austin, Texas 78713 USA | surface of the moon." - Gene Cernan |
-----
```

56. RE: [APRSSIG:1009] CHEAP barometric sensors!

From: "Sadowski, P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Thu, 04 May 95 08:43:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <2FA8D732@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Strikes me that NOAA might already have "cheap" barometric sensors... from their "sondes" that they put up in balloons... these devices used to be widely available surplus... just a thought..

AH6LS

From: aprssig
To: aprssig
Subject: [APRSSIG:1009] CHEAP barometric sensors!
Date: Thursday, May 04, 1995 9:59AM

While watching a technician gluing strain gages to a model aircraft wing yesterday, I realized the OBVIOUS way to make a BARROMETRIC SENSOR!

Consider the clear plastic coke bottle. By wrapping a thin single layer flat coil of very fine wire around its mid-section (maybe 10 turns or so, and glueing it in place, you will have a resistive strain gauge around the bottle. Add a wheatstone bridge circuit (where the second balance leg is made out of a similar length of un-stressed wire which will compensate for temperature variations) and you are done!

Hook the wheatstone bridge output to the GAME PORT of a PC, and I can easily incorporate it into APRS!

Anyone out there got time to make this work???

There are TWO specific packages that I need to find:

- 1) something smaller than a coke bottle, but which has the same positive sealing capability (simply to reduce the bulk)
- 2) something similar in size but with a WIDE mouth, so that we can put our balloon payload INSIDE. We have a 60% chance of landing in water around here...

57. APRS List Server

From: duncan@vortice.ib.stortek.com (Rob Duncan)
Date: Thu, 4 May 1995 10:21:48 -0600 (MDT)
To: aprssig@tapr.org
Message-ID: <9505041621.AA01448@vortice.ib.stortek.com>
Rendered body type: text/plain

Please send me information on subscribing to your list.

--
Rob

Internet: Rob_Duncan@stortek.com	Phone: (303) 673-5919
Lt. CAP, CFI-ASMEL	Pager: (303) 826-5919
Jeffco Sr. Squadron	Fax : (303) 673-8641
Broomfield, Colorado	CAP : Pikes Peak 295
T-185 N4753Q	HAM : WA7DXQ

58. Re: Dayton Feedback

From: BillWB6LPG@aol.com
Date: Thu, 4 May 1995 13:11:45 -0400
To: aprssig@tapr.org
Message-ID: <950504131143_106683106@aol.com>
Rendered body type: text/plain

From: billwb6lpg@aol.com
To: bruninga@greatlakes.nadn.navy.mil (Robert Bruning)

DUALPORT transmit on KAM. Bob, suggest reconsider your idea on making Kam DUALPORT EVERY transmission on both HF/VHF. A lot of us using both HF/VHF as gateway stations, make xmsns on HF not needed on VHF and viceie versie.. Please reconsider.

Many ops have forgotten capability of (C-H, to transmit on HF side) and (C-V, to xmit on VHF side.) There is enough garbage, over digipeating xtraneous xmissions on VHF now, we surely DON NOT need HF xmsns going out on VHF and or VHF going on HF, you'll BE CAUSING MORE QRM ..

PLEASE RECONSIDER dual Xmsn HF/VHF before doing so. Because of one winner, weener, one FLA disgruntal, don't make misery for all..

Also why the warning on HF for using a Digi, in HF path..?? One digi gets our West coast HF via a MID-US station to you on the East coast, have had several ask me about that. Due propgation other factors one Digi,gate,wide/

aprs via (vhf digi) gets at least one hop for the HF packet..

Again, (C-H, C-V) for alternate xmsns HF/VHF .. Reconsider please.

73's & Enjoy, Bill/WB6LPG @ KA6EYH.#NOCAL.CA.USA, billwb6lpg@aol.com

59. RE: Dual Port APRS

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Thu, 4 May 95 13:43:48 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.799609428.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

Someone wrote:

>DUALPORT transmit on KAM. Bob, suggest reconsider your idea on making
>Kam DUALPORT EVERY transmission on both HF/VHF

The MACINTOSH version of APRS supports dual-port on the KAM, the AEA PK-900 and the AEA DSP-2232.

When in this mode, it DOES NOT dual port everything, it looks at the data and figures out where the info should go..

If you are running dual port on any of these and a MESSAGE comes in on ONE band, it gets acked ONLY on that band. If you select a station to send a MESSAGE TO, it looks up the station, finds out where it was heard, VHF or HF, and sends the message ONLY on that band.. However, you have the option of overriding this with each message, Usually you wouldn't want to, but you might.

There are some situations where this can get interesting, especially if you have more than one VHF/HF gateway in an area. I handle this by saving where the station(s) where heard FIRST, and only responding to that band.

With experimentation between W02J and myself, we have verified that this indeed works real well. He and I are both running VHF/HF gateways and he can hear me on both bands. However, I always hear him on VHF first, and therefore, I always send the messages to him on VHF.. Before I implemented this, he would see the messages on VHF and on HF and then ACK back on both bands.

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

60. Garmin GPS-40

From: jlf@achilles.mitre.org (James L. Fisher x6117)
Date: Thu, 4 May 95 13:42:49 EDT
To: aprssig@tapr.org
Message-ID: <9505041742.AA21032@achilles.mitre.org>
Rendered body type: text/plain

Hi all. A local store is selling a Garmin GPS-40 for \$312. How does the GPS-40 compare with other GPS rcvrs, in terms of accuracy, features, and ease of use? What features are missing that I might find useful later (in non-APRS applications)? Is \$312 a good price?

The salesman also said the GPS-40 was the "land" version of the GPS-45, which is more for marine use. How close is that to true?

And lastly, did someone on the SIG say that one of the commercial maps-on-a-CD packages had software that would automatically track/plot your position on the displayed map given the GPS input? If so, what CD package was that?

Thanks much,
--jim/WB3LFB@W3INK.MD.USA.NOAM

JamesL.FisherPhD//The MITRE Corp//Center for Info Sys//McLean VA//jlf@mitre.org
703-883-6117

61. Freqs in Calif Bay Area

From: kirk@neptune.gsfc.nasa.gov (Robert Kirk)
Date: Thu, 04 May 1995 14:03:22 -0400
To: aprssig@tapr.org
Message-ID: <199505041806.OAA13675@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

I was in the Bay area last week (from MD) with my trusty GPS/Palmtop/HT but wasn't able to copy any activity on 145.79. Is ther another freq in common use there? I was around Los Altos to SFO. I'll be going back this summer there and also Modesto/Sonora.

Bob Kirk
N30ZB

62. MacAPRS 1.5.1

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Thu, 4 May 95 14:03:48 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.799610628.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

Just before Dayton, I announced MacAPRS 1.5.0. I gave out a bunch of copies of this version at Dayton. While out there I also purchased a KPC-3. In the process of messing around with the KPC-3 and a KAM, I discovered a 'gotcha' with the Kantronics units. So, instead of releasing 1.5.0 on Monday, I delayed and am now releasing MacAPRS 1.5.1. This has been in beta test since Monday night...

If you are running version 1.5.0, It does not initialize the TNC correctly so please upgrade to 1.5.1. (This is due to the Kantronics gotchas.)

This version has several new features in it:

***** Speech

MacAPRS 1.5.1 now has SPEECH output for two different things. When a NEW station appears, it tells you the CALL SIGN, and if you get MAIL to YOU, it says
"MAIL FROM WU2Z Hello this is a test"
You can also select a message and REPLAY it later, it then says:
"I SAY AGAIN, MAIL FROM WU2Z Hello this is a test"

This uses the Speech Manager which is built into the operating system. This comes standard with System 7.5.1 and can be installed with any System, 7.0 or later.

This has proven quite useful in that I don't have to watch the screen just to see what is going on. Also I can hear messages from the other side of the room and do not have to run over to see what is going on.

If you do NOT have the speech manager, it simply does what it did before which was to do a Road-Runner BEEP-BEEP on new stations and say "YOU HAVE MAIL" with a digitized voice.

***** Telemetry

MacAPRS 1.5.1 now supports the MIM Telemetry data. There is a new window that lists any telemetry data that has been received.

***** Dual Port support

There were a couple minor difficulties with the Kantronics KAM that have been resolved. Thanks to the people at Kantronics for helping with this. If you are running a KAM in dual port mode, I now know how to do the setup for making the KAM work. Send me E-mail and I will give you the specifics..

***** Map Making

Map Making has been removed and is being put into a new program called MacMapMaker. This program will have many features for doing maps INCLUDING the ability to create PC maps.. See previous announcements about MacMapMaker

***** List Windows

The list windows now have the ability to re-size the columns, this makes it more flexible on the different size screens.

***** History Window auto updates

The history windows (Full history and individual stations) now automatically update as new packets come in.. This was requested by several people.

Keith Sproul, WU2Z

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www.ns.rutgers.edu/~ksproul/	908 821-4828 Home

63. Re: [APRSSIG:1017] Garmin GPS-40

From: kirk@neptune.gsfc.nasa.gov (Robert Kirk)
Date: Thu, 04 May 1995 14:52:12 -0400
To: aprssig@tapr.org
Message-ID: <199505041854.0AA14338@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

>

>Hi all. A local store is selling a Garmin GPS-40 for \$312. How does the GPS-40
>compare with other GPS rcvrs, in terms of accuracy, features, and ease of use?
>What features are missing that I might find useful later (in non-APRS
>applications)? Is \$312 a good price?

\$299 is the going price from the marine stores: West, BoatUS, E&B. No tax
if you mail order from Defender.

>

>The salesman also said the GPS-40 was the "land" version of the GPS-45, which
>is more for marine use. How close is that to true?

Pretty close. I'd pick the '45 at the same price because it is not
constrained to
the 8 volt propriatary expensive power supply from Garmin. The 45 will take
anything
from about 6-40 (or thereabouts) volts and you can home brew a supply. The
45 also has a better internal antenna (BNC to helix vs internal patch). Although
for most mobile use yuo'll probablvly buy the remote preamped antenna for ~\$150
for either.

>

>And lastly, did someone on the SIG say that one of the commercial maps-on-a-CD
>packages had software that would automatically track/plot your position on the
>displayed map given the GPS input? If so, what CD package was that?

Delorme sells what you're talking about, but for an outrageously high
\$4-500. They
sell a fine CDRom map for about \$70-80. In my opinion, all you get for all
that extra
money is a little code that reads the gps input from the serial port and
plots it on
the screen. The maps are pretty and very complete, but stick with APRS.

Bob Kirk
N3OZB

>

>Thanks much,
> --jim/WB3LFB@W3INK.MD.USA.NOAM

>

>JamesL.FisherPhD//The MITRE Corp//Center for Info Sys//McLean VA//jlf@mitre.org
> 703-883-6117

>

>

64. Re: KPC-3 two digi calls & PK-12

From: BillWB6LPG@aol.com
Date: Thu, 4 May 1995 16:02:38 -0400
To: aprssig@tapr.org
Message-ID: <950504160235_106853824@aol.com>
Rendered body type: text/plain

Ref: klarson@access.digiex.net (Kent Larson) KPC-3 THIRD callsign as digipeat address!. (RELAY-WIDE) digipeter {95-05-04 08:25:26 EDT.

Ref: bruninga@greatlakes.nadn.navy.mil (Robert Bruning) 95-05-04 10:22:31 EDT in
reply.. FANTASTIC --RELAY-WIDE NETWORK: etc etc...

New AEA GPS PK-12 TNC, has similar capability, different wording and may be somewhat confusing with our Kam+ & APRS, use of word GATE.. HF/VHF..

QUOTE: AEA PK-12 MANUAL. Page 38. ""

MYGate call[-n]
call Node call sign used by other stations.
"n" 0 to 15, as optional substation ID (SSID0.
"Call" is the call sign of the NODE function of your PK-12. Stations can connect to your "MYGate" call and then issue a connect request from there. This way, your station takes responsibility for acknowledgments of the user"s packets.
UNQUOTE.....

Whereas the KPC-3 Manual, P-33 states the following :

QUOTE...;
MYNode xxxxxx-n
default MYCALL-7
Setting this command to a callsign or character string enable the KA-Node in the TNC. Enter up to six characters(plus optional SSID) which are different than those used for MYCALL,MYALIAS,MYPBBS, or MYREMOTE. You must also have the NUMNODES command set to a non-zero value. You may disable the KA-Node by setting MYNODE to the same as MYCALL, or setting NUMNODES 0.
See also: digipeat,ndwild,numnodes:KA-Node section.
UNQUOTE

1. Note under APRS, MYCALL-7 gives you and AIRCRAFT symbol. ????

QUOTE KPC-3 p-35

2. NUMnodes n (n=0-6) default 0.
This command is used to set the number of allowable circuits through the KA-Node. For example, if you wish to allow up to 3 simultaneous circuits through the node, set NUMNODES 3. This command will cause a soft reset. Approximately 4K of RAM is used for each circuit. The amount of RAM available will depend on how much RAM has been used for the PBBS, MAXUSERS, and MYREMOTE parameters. etc... (So NUMNODES must be set to a 1, & loss of 4K of RAM in KPC-3) for mobile GPS use may not matter.

Just passed for your info and guidance gentlemen! What now coach ?? Advise

73's & Enjoy, Bill/WB6LPG @ KA6EYH.#NOCAL.CA.USA.NOAM & billwb6lpg@aol.com

65. Re: [APRSSIG:1006] Re: KPC-3 can do two digicalls

From: Emmet2@aol.com
Date: Thu, 4 May 1995 17:00:15 -0400
To: aprssig@tapr.org
Message-ID: <950504170012_106914103@aol.com>
Rendered body type: text/plain

Actually, I think you can get another one too then by using the MYRemote command to set the remote alias to something else you want to be able to digi through. With the remote you will also have to set the RText.

Chip Griffin (Granite on local BBS)
President of Thames River Apple Users Group
SysOp of The Quarry BBS (203-889-6427)
Emmet2 (AOL & eWorld) emmet2@aol.com or emmet2@eworld.com
N1MIE@N10KK.CT.USA 1:320/301 (fidonet)

66. Re: [APRSSIG:1021] Re: KPC-3 two digi calls & PK-12

From: janderson@infotac.ram.net (Jack Anderson)
Date: Thu, 4 May 95 17:13:42 -0400
To: aprssig@tapr.org
Message-ID: <15021591.116@infotac>
Rendered body type: text/plain

Okay

67. Re: [APRSSIG:1018] Freqs in Calif Bay Area

From: calldrin@sierra.net (Chuck Alldrin)
Date: Thu, 4 May 1995 14:47:27 -0700
To: aprssig@tapr.org
Message-ID: <199505042147.AA23165@diamond.sierra.net>
Rendered body type: text/plain

The frequency in use in Northern CA. is 145.01. There is alot of activity in the Bay area and digi's as far north and Chico, CA.

Hope this is of some help..
73 and CUL
Chuck Alldrin Chico, CA.

>I was in the Bay area last week (from MD) with my trusty GPS/Palmtop/HT
>but wasn't able to copy any activity on 145.79. Is ther another freq in
>common use
>there? I was around Los Altos to SFO. I'll be going back this summer there and
>also Modesto/Sonora.
>
>Bob Kirk
>N30ZB
>
>
>

68. Re: [APRSSIG:1018] Freqs in Calif Bay Area

From: Bob Wilkins <rwilkins@ccnet.com>
Date: Thu, 4 May 1995 14:52:09 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9505041418.B24587-0100000@ccnet3>
Rendered body type: text/plain

On Thu, 4 May 1995, Robert Kirk wrote:

> I was in the Bay area last week (from MD) with my trusty GPS/Palmtop/HT
> but wasn't able to copy any activity on 145.79. Is ther another freq in
> common use

Northern California APRS is on 145.01 High Level Wides are near San Jose, San Francisco, Walnut Creek, Angels Camp, Sacramento, and Chico.

Check in to the APRS voice net on 147.06+ using 100pl on Tuesday evenings at 7:30pm

The Bay Area is vary active with several GPS mobiles showing at commute time and lots of action in the evening.

Not all of us can operate on 145.79. Maybe we should have a couple regional usa maps showing just wide stars with the frequency instead of callsign. There are help files showing frequencies but you know if there were a frequency map travelers could navigate to the right channel.

Bob	n6fri	http://www.ccnet.com/~rwilkins/	
	Bob Wilkins	work	bwilkins@cave.org
	Berkeley, California	home	rwilkins@ccnet.com
	94701-0710	play	n6fri@n6eeg.#nocal.ca.usa.noam

69. Barometric Pressure Sensor

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Thu, 04 May 1995 18:42:20 -0500
To: aprssig@tapr.org
Message-ID: <9505042241.AA17814@seism1.ess.sunysb.edu>
Rendered body type: text/plain

I had never understood why a barometric pressure sensor is not included in the U II station. Seems to me that barometric pressure is an usefull info (especially for boats, but also for hurricanes forecasts) .

I would not go for the "coke bottle" solution for two reasons:
-I suspect this sensor will be more sensitive to temperature than pressure.
-You can now find very small electronic sensors at a reasonable cost:

Honeywell has a Barometric pressure sensor(with a piezoresistif element).

Here is the info I have:

Ref Honeywell: 24PCCFA2G

Range: 0-15 PSI / 0-1034 mBar (or hPa)
linearity: +- 0.2%
Stability: +- 0.5%/year

Excitation voltage: 10 V DC typical, current 2 mA typ.
Output voltage: 225 mV full scale (can be use at lower exc. with lower output I think)
Usable between -40°C and +85°C (sorry -40 to +185 F)
NOT temperature compensated (don't know if this is a real problem).
chock resistance 150 G (!)

price is around 20\$ (exact quotation from the French Radiospares catalog is 145FF, which is 29\$, but usually the price increase by a factor of 1.5-2 when these devices cross the atlantic, :-(.

This type of transducer becomes really easy to find and cheap (.i.e. the digital altimeters), someone will certainly come with other sources.
You need to add a small amplifier and connect it to the game port of the pc (why not a temperature sensor on the other game port?) ,et voila, a nice and cheap basic weather station.

For sure, this is an idea to follow!

Bernard, KB2TGH.

70. High Temporal Resolution Tracking

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Thu, 04 May 95 15:52:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <2FA93B91@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

I have a problem that maybe folks here could provide input on:

My application calls for tracking 40 vehicles and 20 helicopters....
the vehicles need about a 5-10 update per minute rate (5-12 seconds between each vehicles update) and a 10-20 per minute update rate for the helo's (3-6 seconds between each helo's update).... upon certain infrequent events - - another update is needed... just to get the time and position of that vehicle/helo when the infrequent event occurred.
All this in real time as APRS does and then the position data both displayed on a map - and available in ASCII form out a serial port - or across an Ethernet - where it will be turned into DIS PDU's for display on another system (DIS PDU's are a network packet protocol used for simulation software... I have the ASCII to DIS solution already.... I need the higher dynamic position information...)

Anyway, I'd appreciate any info any of you might have...

Thanks in advance...

Al Sadowski AH6LS Combat Rescue "THAT OTHERS MAY LIVE"
sadowskp@USAFRCRQS.NELLIS.AF.MIL

71. PacComm Tiny-2 MK-2 with GPS

From: john.kerr@projectx.com (SYSOP)
Date: Thu, 04 May 95 21:01:00 -5
To: aprssig@tapr.org
Message-ID: <8A8B4ED.0001002110.uuout@projectx.com>
Rendered body type: text/plain

Wondering if anyone out there has successfully setup the new Tiny-2 unit with the internal GPS unit and have it running with APRS.. If you do, can you get back to us with your configuration and any init strings you might have used to configure up the unit.

Thanks..John VE3SVE

72. Homebrew GSP Antennas?

From: Tim Smith <TSMITH@fibusa.com>
Date: Thu, 04 May 95 21:36:00 PDT
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2FA9A2A4@ipnovell.fibusa.com>
Rendered body type: text/plain

75. Re: Homebrew GPS Antennas?

From: rwf@mindspring.com (rwf)
Date: Thu, 04 May 1995 22:45:55 -0500
To: aprssig@tapr.org
Message-ID: <199505050241.WAA29141@dylan.mindspring.com>
Rendered body type: text/plain

I have not tried to make my homebrew antenna yet, but I thought I would pass along the trick one of our local users did.

He has a Motorola Encore GPS card with no active antenna. Being an antenna experimenter, he tried all sorts of things while anticipating the ordering of his own active antenna. Nothing worked: 1/4 waves, hawg fences, helixes, Nothing! Then he came across an old preamp that he uses for 1.2 ATV sometimes. They sell them at Radio Shack as a Satellite TV Preamp (950-1450 MHz or so). It uses a power injector.

He made a 1/4 wave for 1.6 Ghz or so on a piece of PC board and added the Radio Shack preamp at the antenna. The Motorola powered the amp right up the line without using the power injector. He now can GPS with pretty good success.

I *know* that this is not the "correct" way to do this, and that a 1/4 wave is not really right for the pattern we want. I also know that the Radio Shack preamp is not really designed with this in mind, but it sorta worked. It may help someone out someday.

Ralph Fowler
N4NEQ Atlanta

76. Bob Notice

From: wnolle@fly.HiWAAAY.net
Date: Thu, 4 May 95 21:32:04 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950504213943.wnolle@wnolle.HiWAAAY.net>
Rendered body type: text/plain

I'm running APRS V68b and i noticed that when hitting the F9 key for centering map on all users it won't work with users West but will with all users East, Strange Bob. My qth is in North Alabama now there where many users on my map, including two stations in Texas when i did the F9 it would center on all the users East of texas but left them off the map???? Explain that one!. I know it worked in 86a. In fact a friend of mine was on the air about 30 miles south going through the same digi and he told me his version 69a centered all stations on the map without any problem. You may want to check that one out. And thanks Bob for informing me that i in fact did not loose my marbles with the unproto path SAVE, i was really beginning to wonder Hi.

```
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|    3458'34N-08629'53W    |
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| .ooo0      ( )          |
| ( )      ) /            |
| \      ( /              |
| \ )                      |
```

77. Re: [APRSSIG:1009] CHEAP barometric sensors!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 4 May 1995 22:24:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505050324.WAA09824@solar.cs.tamu.edu>
Rendered body type: text/plain

Why not just go to Analog Devices and get one of their (many) ICs that do pressure determination, and can be referenced to an originating pressure, OR can be used in differential mode with your bottle (or a sealable metal can) to achieve real delta P measurements. Last I looked, the glue electronics requirement was pretty small for these. I looked at some implantable devices for cows (see, my bovine fixation goes back to the pre-GPS days!) in an artificial heart program 15 years ago.

73. gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

78. Re: [APRSSIG:1018] Freqs in Calif Bay Area

From: FredMuller@aol.com
Date: Thu, 4 May 1995 23:30:12 -0400
To: aprssig@tapr.org
Message-ID: <950504232457_107407066@aol.com>
Rendered body type: text/plain

145.01 is the center of activity
Fred-WA6LQL

79. RE: [APRSSIG:1032] Re: Homebrew GPS Antennas?

From: Tim Smith <TSMITH@fibusa.com>
Date: Thu, 04 May 95 23:31:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <2FA9BDB4@ipnovell.fibusa.com>
Rendered body type: text/plain

>I have not tried to make my homebrew antenna yet, but I thought I would
pass
>along the trick one of our local users did....
>He made a 1/4 wave for 1.6 Ghz or so on a piece of PC board and added the
>Radio Shack preamp at the antenna. The Motorola powered the amp right up
>the line without using the power injector. He now can GPS with pretty good
>success.

That's interesting...does that mean the Motorolas send DC up the line for
their active antennas?

>I *know* that this is not the "correct" way to do this, and that a 1/4 wave
>is not really right for the pattern we want. I also know that the Radio
>Shack preamp is not really designed with this in mind, but it sorta worked.
>It may help someone out someday.

That's something to start on...I really appreciate it. I saw Nebraska
Surplus at Dayton (they were selling the Rockwell boards for \$195 along with
a passive antenna for \$65 and an active for \$99. They were doing something
that was hard to believe...they had an PASSIVE antenna on the roof of the
Hara Arena going through 8' of coax that was part of the antenna, THEN about
20 feet of RG8 (really) and then a short RG58 jumper to the receiver...they
were getting a fix! Wonder if I was getting scammed or if the Rockwell
receiver is really hot? Hmm?

>Ralph Fowler
>N4NEQ Atlanta

Thanks Ralph....I'm a former Atlanta resident myself...have a friend still
there (Joe, AC4YK, Syrmna).

73,

Tim N1BTQ
Mattapoisett, MA
(near Cape Cod)

80. Re: [APRSSIG:1028] PacComm Tiny-2 MK-2 with GPS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 4 May 1995 22:49:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505050349.WAA10478@solar.cs.tamu.edu>
Rendered body type: text/plain

Well, I've done it with a separate Motorola engine, and packaged it into the
Tiny-2 with Paul's help on the hookups. Worked well. I initialized the GPS
separately to output the desired NMEA strings, and put the TNC in GPS mode.
When I turned it on, it just worked. If you get PacComm to blow the EPROM
without DED-ware, you can use the switch to disconnect the GPS as needed.

73, Gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk

* to astronauts, and smile

81. Re: [APRSSIG:1029] Homebrew GSP Antennas?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 4 May 1995 22:51:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505050351.WAA10535@solar.cs.tamu.edu>
Rendered body type: text/plain

Why not contact M/A-Com and grab one of theirs? They're pretty inexpensive and can be had wth magnets already. They have active and passive antennas, both.

73, gerry

82. Re: [APRSSIG:1036] Re: Homebrew GPS Antennas?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 4 May 1995 22:59:58 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505050359.WAA10762@solar.cs.tamu.edu>
Rendered body type: text/plain

Tim Smith sez:

>

> That's interesting...does that mean the Motorolas send DC up the line for
> their active antennas?

Yep. So do the Rockwell, and Trimble engines. It's both easy and pretty standard.

> That's something to start on...I really appreciate it. I saw Nebraska
> Surplus at Dayton (they were selling the Rockwell boards for \$195 along with
> a passive antenna for \$65 and an active for \$99. They were doing something
> that was hard to believe...they had an PASSIVE antenna on the roof of the
> Hara Arena going through 8' of coax that was part of the antenna, THEN about
> 20 feet of RG8 (really) and then a short RG58 jumper to the receiver...they
> were getting a fix! Wonder if I was getting scammed of if the Rockwell
> receiver is really hot? Hmmm?

Why not? I've got a Motorola receiver inside the house, with foil on the fiberboard in the walls, etc., getting 4-6 satellites. It'll probably get more after I get the mask reset to something realistic. And, we get data on our Trimble base station via 100 ft of RG-8/U although they're active antennas.

In my cow package, I use 2-3 feet (less when I can get away with it) of RG-174 and it works fine. In fact, I use up to 10 feet of RG-174 with the Motorola engine, and a passive M/A-Com antenna. So, yes. it can be done.

73, Gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

83. Re: [APRSSIG:1015] Re: Dayton Feedback

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Fri, 5 May 1995 07:04:11 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950505070048.19140A-100000@pinegov>
Rendered body type: text/plain

On Thu, 4 May 1995 BillWB6LPG@aol.com wrote:

> From: billwb6lpg@aol.com
> To: bruninga@greatlakes.nadn.navy.mil (Robert Bruning)
>
> DUALPORT transmit on KAM. Bob, suggest reconsider your idea on making
> Kam DUALPORT EVERY transmission on both HF/VHF. A lot of us using both
> HF/VHF as gateway stations, make xmsns on HF not needed on VHF and viceie
> versie.. Please reconsider.
> Many ops have forgotten capability of (C-H, to transmit on HF side)
> and (C-V, to xmit on VHF side.) There is enought garbage, over digipeating
> xtraneous xmissions on VHF now, we surely DON NOT need HF xmsns going out
> on VHF and or VHF going on HF, you'll BE CAUSING MORE QRM ..
> PLEASE RECONSIDER dual Xmsn HF/VHF before doing so. Because of one
> winer, weener, one FLA disgruntal, don't make misery for all..

> Also why the warning on HF for using a Digi, in HF path.?? One digi
> gets our West coast HF via a MID-US station to you on the East coast, have
> had several ask me about that. Due propagation other factors one
> Digi,gate,wide/
> aprs via (vhf digi) gets at least one hop for the HF packet..
> Again, (C-H, C-V) for alternate xmsns HF/VHF .. Reconsider please.
>
> 73's & Enjoy, Bill/WB6LPG @ KA6EYH.#NOCAL.CA.USA, billwb6lpg@aol.com
>
>
Simple solution to solve Bill's dilemma....just make the DUALPORT command
an option off the controls menu....like fade and uplink are now, for
instance. Set the default to Off and we disgruntled Floridians can turn
it on when we set it up.

But I am curious Bill, if you aren't digipeating your signal back through
your own gate, how are you beaconing out your posit on the VHF side?

73 Kevin KD4UYR

84. Re: [APRSSIG:1016] RE: Dual Port APRS

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Fri, 5 May 1995 07:08:14 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950505070634.19140B-100000@pinegov>
Rendered body type: text/plain

On Thu, 4 May 1995, Keith Sproul wrote:

>
> Someone wrote:
>
> >DUALPORT transmit on KAM. Bob, suggest reconsider your idea on making
> >Kam DUALPORT EVERY transmission on both HF/VHF
>
> The MACINTOSH version of APRS supports dual-port on the KAM, the AEA
> PK-900 and the AEA DSP-2232.
>
> When in this mode, it DOES NOT dual port everything, it looks at the data
> and figures out where the info should go..
>
> If you are running dual port on any of these and a MESSAGE comes in on ONE
> band, it gets acked ONLY on that band. If you select a station to send a
> MESSAGE TO, it looks up the station, finds out where it was heard, VHF or HF,
> and sends the message ONLY on that band.. However, you have the option of
> overriding this with each message, Usually you wouldn't want to, but you
> might.
>
> There are some situations where this can get interesting, especially if you
> have more than one VHF/HF gateway in an area. I handle this by saving where
> the station(s) where heard FIRST, and only responding to that band.
>
> With experimentation between W02J and myself, we have verified that this indeed
> works real well. He and I are both running VHF/HF gateways and he can hear me
> on both bands. However, I always here him on VHF first, and therefore, I always
> send the messages to him on VHF.. Before I implemented this, he would see the
> messages on VHF and on HF and then ACK back on both bands.
>
> Keith Sproul
>
>
> Keith Sproul
Ham Radio: WU2Z
> Student Housing Network Coordinator ksproul@noc.rutgers.edu
> Rutgers University Computing Services 908 445-3695 Work
> http://www.ns.rutgers.edu/~ksproul/ 908 821-4828 Home
>

Keith, that is an even better idea...perhaps you can share some code
ideas with Bob. He doesn't have a KAM so he can't experiment with the
required commands.

73 de KD4UYR

85. RE: [APRSSIG:1038] Re: Homebrew GSP Antennas?

From: Tim Smith <TSMITH@fibusa.com>
Date: Fri, 05 May 95 07:08:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <2FAA2941@ipnovell.fibusa.com>

Rendered body type: text/plain

>Why not contact M/A-Com and grab one of theirs? They're pretty inexpensive
>and can be had with magnets already. They have active and passive antennas,
>both.

Thanks Gerry...do you have a number or address?

Thanks,

Tim

86. Re: [APRSSIG:1039] Re: Homebrew GPS Antennas?

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Fri, 5 May 1995 09:05:02 +0000
To: aprssig@tapr.org
Message-ID: <9505051301.AA00725@oriola.ustc.vlsi.COM>
Rendered body type: text/plain

>Tim Smith sez:

>>

>> That's interesting...does that mean the Motorolas send DC up the line for
>> their active antennas?

>

So does the magellan proto board.

Has a jumper to determine active (send up DC) or passive (no DC).

>Yep. So do the Rockwell, and Trimble engines. It's both easy and pretty
>standard.

>

>> That's something to start on...I really appreciate it. I saw Nebraska
>> Surplus at Dayton (they were selling the Rockwell boards for \$195 along with
>> a passive antenna for \$65 and an active for \$99. They were doing something
>> that was hard to believe...they had an PASSIVE antenna on the roof of the
>> Hara Arena going through 8' of coax that was part of the antenna, THEN about
>> 20 feet of RG8 (really) and then a short RG58 jumper to the receiver...they
>> were getting a fix! Wonder if I was getting scammed of if the Rockwell
>> receiver is really hot? Hmmm?

>

>Why not? I've got a Motorola receiver inside the house, with foil on the
>fiberboard in the walls, etc., getting 4-6 satellites. It'll probably get more
>after I get the mask reset to something realistic. And, we get data on our
>Trimble base station via 100 ft of RG-8/U although they're active antennas.

>

>In my cow package, I use 2-3 feet (less when I can get away with it) of RG-174
>and it works fine. In fact, I use up to 10 feet of RG-174 with the Motorola
>engine, and a passive M/A-Com antenna. So, yes. it can be done.

>

>73, Gerry

>--

>Gerry Creager N5JXS * SAREX Co-Investigator
>gerry@cs.tamu.edu * A little radio that lets kids talk
> * to astronauts, and smile

>*****

Bob Baltz *
Chesapeake Region Sales *
Ph:(410) 987- 8777 *
Fax: (410) 987-8777 *
E-mail bob.baltz@ustc.vlsi.com *

87. Re: [APRSSIG:996] re:APRS on HPxxLX, for KI4T

From: JKANDEL@umiami.ir.miami.edu
Date: Fri, 05 May 1995 09:47:01 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HQ519S6MBMA5V71L@umiami.ir.miami.edu>
Rendered body type: text/plain

Jon,

Thanks for the info about running APRS on your HP100LX. How much system manager RAM do you think it needs?

The HP200LX has a meg, with about 600 KBytes available. Do you think that would be enough?

I would like to not have to offload the other stuff if I don't have to?

Which version of APRS are you running?

Joel Kandel, KI4T

jkandel@gate.com

88. Re: [APRSSIG:999] Re: Used Motorola GPS receivers

From: JKANDEL@umiami.ir.miami.edu
Date: Fri, 05 May 1995 09:50:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HQ51F3WZ3CA5V71L@umiami.ir.miami.edu>
Rendered body type: text/plain

Dan,
Thanks for the info on the HP200LX. Did you have to unload any of the canned software to make room on the system RAM? Which version of APRS are you running? Whose flash cards are you using?
Thanks
Joel Kandel, KI4T
jkandel@gate.comm

89. Re: KPC3 wide issue

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 5 May 1995 09:55:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950505092816.8043A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 4 May 1995, someone wrote:

> In your reply "Fantastic" are you looking for wide digis to use both
> WIDE and RELAY and for all other KPC-3 stations, to use WIDE-RELAY?

APR REPLY: I am definately NOT wanting ANY station except the really well situated long-distance WIDES to have an alias of WIDE. Everyone else should be RELAY.

Having the high well-situated WIDES also respond to RELAY makes the whole network become a homogenous RELAY system. ALL MOBILES may then have their initial path begin with RELAY and take advantage of not only the well situated HIGH sites, but also be able to bounce off of nearby home stations when in distant areas.

CAUTION!: However, this entire discussion only applies to MOBILES! Home stations should NEVER NEED TO USE THE PATH VIA A RELAY !!!!!!!!!!!!!!!!!!!!!

This is because HOUSE's DO NOT MOVE! Every home station is in a fixed location, can usually hit a good digipeater, and has a FIXED path, and can therefore use FIXED callsigns in those paths!!!

FINALLY, there is almost NEVER any justification for EVER having a RELAY beyond the first entry in a unproto path.

90. Re: [APRSSIG:1042] Re: Homebrew GSP Antennas?

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Fri, 5 May 1995 08:57:07 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505051357.IAA21528@solar.cs.tamu.edu>
Rendered body type: text/plain

Tim Smith sez:

>
>
> >Why not contact M/A-Com and grab one of theirs? They're pretty inexpensive
> >and can be had wth magnets already. They have active and passive antennas,
> >both.
>
> Thanks Gerry...do you have a number or address?

I normally don't requote entire messages...

I'll have to dig it up. I'd suggest a quick 1-800-5551212 and ask for M/A Com, but I'll dig my catalog out of the piles of "filing" here, and post it.

> Thanks,

73, Gerry

--

Gerry Creager N5JXS
gergy@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

91. (fwd)Garmin External Antenna Specs-quad [1/1]

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Fri, 05 May 1995 10:08:50 -0500

To: aprssig@tapr.org
Message-ID: <9505051407.AA18158@seism1.ess.sunysb.edu>
Rendered body type: text/plain

Forwarded from sci.geo.satellite-nav, here is an interesting idea about homebrew
gps antenna:
(the author of the article is Tim Huster (timh@xetron.com), not me.)

>
>Subject: RE: Quadrifilar Helix antenna
>
>
>
>Design criteria:
>1. Satellites transmit a C.P signal
>2. The C.P. signal is extremely weak at the receiver.
>3. Satellite coverage, expected, would be horizon to horizon. Close
> to the horizon, the signal would cause reflections.
>4. Physically small antenna.
>5. Preferably, 50 ohms.
>6. Preferably, no ground plane.
>7. Need un-complicated tuning network.
>8. Need un-complicated balun network.
>9. Fairly wide-bandwidth.
>
>8 antenna choices:
>1. folded dipole - linear polarization. easy to build, tune,
> requires a ground plane. ~narrow bandwidth.
>2. Conical - (blade monopole) linear polarization, easy to build,
> tune, requires a ground plane.
>3. Pyramidal Conical - same as #2, 4 piece antenna instead of 1 piece.
>4. Crossed dipoles - C.P. about the axis, linear off-axis.
>5. Turnstile reflector - C.P.-axial, linear otherwise. Tough to tune.
> Requires a ground plane ~1wavelength.
>6. 1/4 wave patch antenna - requires knowledge of the UnKnown Circuit
> board parameters. Tough to tune.
>7. Quadrifilar Helix - C.P. over the entire radiation pattern, some
> gain, No ground plane, small. approx. horizon to horizon coverage.
> infinite balun.
>8. Lindenblad - C.P., favors low elevation angles, easy to build.
>
>Antenna amp. - MAR-6 DC-2GHz, 20-10dB gain, 16mA @ 3.5V. easy to
> build. Mini-Circuits (800)654-7949, MAR-6 \$1.29/in quantity.
>
>Quadrifilar Helix antenna "The Satellite Experimenter's Handbook",
>Martin Davidoff, K2UBC, American Radio Relay League, ISBN: 0-87259-
>004-6, Pages 8-15 to 8-16. Plus other references to the other
>antennas.
>
> Small Bifilar (Make this the Inside Loop)
>
> D L Length A-A'
>Any Freq(F) 0.156*wave L. 0.238*wave L. 1.016*wave L.
>F=1575.42MHz 1.169 in. 1.784 in. 7.616 in.
>wave L. = 7.496 in.
>
> Large Bifilar (Make this the coax, driven Loop)
>
> D L Length B-B'
>Any Freq(F) 0.173*wave L. 0.112*wave L. 1.12*wave L.
>F=1575.42MHz 1.296 in. 1.949 in. 8.395 in.
>
>Wire diameter = 0.0088*wave L.
>@1575.42MHz, wire diameter = 0.065 in (approx 14GA.)
>I used 9307 conformable hardline for the entire antenna. The feedline
>is the only 'coax'. The other elements have the center conductor
>shorted to the shield to 'make' a wire. The junction at the top of the
>antenna is hard to draw. I suggest getting the book and viewing the
>illustrations.
>Let me know if this is helpful!!!

Bernard, KB2TGH.

92. Re: [APRSSIG:1021] Re: KPC-3 two digi calls & PK-12

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 5 May 1995 10:35:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950505102746.8043D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 4 May 1995 BillWB6LPG@aol.com wrote:

> New AEA GPS PK-12 TNC, has similar MYNODE capability....

> MYGate call[-n]
> call Node call sign used by other stations.
> "n" 0 to 15, as optional substation ID (SSID0.
> "Call" is the call sign of the NODE function of your PK-12. Stations can
> connect to your "MYGate" call and then issue a connect request from there.
> UNQUOTE.....

APR REPLY! Oh-my-GOSH! How could they do such a thing as calling a NODE,
a GATE! Confusion will reign forever!!!!

CAN ANYONE CONFIRM WHETHER THE PK-12 GATE CALL WILL ALSO DIGIPEAT? If it
can also digipeat using that call, then this TNC is also a good candidate
for making a WIDE-RELAY digipeater.

THE OTHER BIG QUESTION THAT MUST BE TESTED, however IS WHEN YOU HAVE LOTS
OF KPC-3's OUT THERE WITH THE SAME NODE CALL OF RELAY. WHAT HAPPENS WHEN
SOME GUY CONNECTS TO THE RELAY NODE. AND THEN ASKS FOR A CONECTION TO
ANOTHER RELAY NODE?? DO WE GET:

FOREVER PACKETS? LOCKUP?

THIS has got to be tested by someone before we go out and start turning
all our (well situated) WIDES into WIDE-RELAYS....

If you have a friend with a KPC3, both set your MYNode call to RELAY and
have a third party connect as noted above. Let us know what happens.

93. Re: [APRSSIG:1022] Re: KPC-3 can do two digicalls

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 5 May 1995 10:37:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950505103614.8043E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 4 May 1995 Emmet2@aol.com wrote:

> Actually, I think you can get another digi alias by using the MYRemote
> command to set the remote alias to something else you want to be able to digi
> through. With the remote you will also have to set the RText.

APR REPLY: Yes, but will it digi using that call?

94. Re: [APRSSIG:1025] Re: Freqs in Calif Bay Area

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 5 May 1995 10:42:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950505103847.8043F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 4 May 1995, Bob Wilkins wrote:

> Not all of us can operate on 145.79 Maybe we should have a couple
> regional usa maps showing just wide stars with the frequency instead of
> callsign. There are help files showing frequencies but you know if there
> were a frequency map travelers could navigate to the right channel.

APR REPLY: I am building a single back up file with ALL known WIDE
digipeaters on it. If you have a PERMANENT WIDE digipeater, please send
it to me here by cutting out the POSIT from the PLIST and including it in
a message. Do NOT send files and disks, its just too much trouble...

Please, no EGO-peaters. Just BIG WIDES.... (include freq if not 5.79)

95. Re: [APRSSIG:1029] Homebrew GSP Antennas?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 5 May 1995 10:54:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950505105219.8043H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 4 May 1995, Tim Smith wrote:

> Anyone tried this yet? I'll like to make a small "hockey-puck"
> antenna...perhaps pot one using silicon or epoxy in a small mold with a

> magnet...any suggestions for a small helix? My dashboard application is

APR REPLY: Tom Clark has been saying this for years. A single chip LNA amp at 1.6 GHz only costs about \$1.65. All someone has to do is to add it to a PATCH antenna etched on a circuit board, and we will have CHEAP HAM style GPS antennas.... Anyone???

96. Re: [APRSSIG:1032] Re: Homebrew GPS Antennas?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 5 May 1995 10:59:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950505105646.8043I-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 4 May 1995, rwf wrote:

> He made a 1/4 wave for 1.6 Ghz or so on a piece of PC board and added the
> Radio Shack preamp at the antenna. The Motorola powered the amp right up
> the line without using the power injector. He now can GPS with pretty good
> success.

>
> I *know* that this is not the "correct" way to do this, and that a 1/4 wave
> is not really right for the pattern we want. I also know that the Radio

APR REPLY: Actually, a 1/4 wave vertical antenna is not bad! For geometry reasons, a GPS receiver will NOT use any satellites overhead UNLESS it is needing a 3D fix. For 2D (most of us on the ground), the best satellites for a fix, are to the side. Perfect for a ground plane antenna (or paper clip).

97. KPC-3/MYRemote

From: jlf@achilles.mitre.org (James L. Fisher x6117)
Date: Fri, 5 May 95 14:13:14 EDT
To: aprssig@tapr.org
Message-ID: <9505051813.AA22765@achilles.mitre.org>
Rendered body type: text/plain

On Thu, 4 May 1995 Emmet2@aol.com wrote (about KPC-3s):

> Actually, I think you can get another digi alias by using the MYRemote
> command to set the remote alias to something else you want to be able to digi
> through. With the remote you will also have to set the RText.

I don't think that's correct. I believe that MYRemote is the node name you connect to remotely change your TNC parameters ("root" privileges in UNIX parlance).

Access to the MYRemote node is protected by a pseudo-time-varying password which depends on the user-specified RText string. Here's how that password is determined: (1) You connect to MYRemote; (2) The KPC-3 spits back some numbers; (3) You interpret each number as the character position in the RText string, and that's the password for this connect. (It's a little more involved than that, but that's the gist of it.)

--jim / WB3LFB@W3INK.MD.USA.NOAM

JamesL.FisherPhD//The MITRE Corp//Center for Info Sys//McLean VA//jlf@mitre.org
703-883-6117

98. Re: [APRSSIG:1020] Re: Garmin GPS-40

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Fri, 5 May 1995 12:10:05 -0700
To: aprssig@tapr.org
Message-ID: <199505051910.MAA29719@kilroy>
Rendered body type: text/plain

At 2:01 PM 5-4-95 -0500, Robert Kirk wrote:

>\$299 is the going price from the marine stores: West, BoatUS, E&B. No tax
>if you mail order from Defender.

Could someone post the info on how to find these places for us landlubbers?

-Greg

--

Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov

Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
Pasadena, CA 91109 |

99. DISTRIBUTION STATUS

From: "Postmaster" <POSTMSTR@SSWP.HCC.COM>
Date: 05 May 1995 15:33:15 GMT
To: aprssig@tapr.org
Message-ID: <SSWP.POSTMSTR.411933150095125FSSWP@HCC.COM>
Rendered body type: text/plain

SMTP.APRSSIG DISTRIBUTION STATUS INFORMATION 05/05/95 15:32:35
=====

DISTRIBUTION ID: SMTP.APRSSIG.4508
SUBJECT : .APRSSIG:1055. Re: Garmin GPS-40
DATE SENT : 05/05/95 TIME SENT: 15:32:00
=====

YOUR MAIL WAS NOT DELIVERED FOR THE FOLLOWING REASON:

SNADS STATUS : 000C
EXPLANATION : SNADS REQUEST PURGED
=====

RECIPIENT : AMGDAL.HUGHES1
LAST NAME : HUGHES
FIRST NAME : PATRICK
MIDDLE INITIAL :
INITIALS : M
NATIVE NAME : AMG/AMGDAL/HUGHES1
COUNTRY : US
ADMD : TELEMAIL
PRMD : HOECHST
ORGANIZATION :
ORG UNIT 1 :
ORG UNIT 2 :
ORG UNIT 3 :
ORG UNIT 4 :
DDA :
TITLE : APP RES MGR
DESCRIPTION :
USERDATA :
3089 YA0870147161HUGHES HUGHES1
M 4 CG-HQS-DALLAS UNITED STATES L PATRICK
TELEPHONE : 8883807

100. DISTRIBUTION STATUS

From: "Postmaster" <POSTMSTR@SSWP.HCC.COM>
Date: 05 May 1995 15:56:15 GMT
To: aprssig@tapr.org
Message-ID: <SSWP.POSTMSTR.162456150095125FSSWP@HCC.COM>
Rendered body type: text/plain

SMTP.APRSSIG DISTRIBUTION STATUS INFORMATION 05/05/95 15:55:50
=====

DISTRIBUTION ID: SMTP.APRSSIG.5022
SUBJECT : .APRSSIG:1056. DISTRIBUTION STATUS
DATE SENT : 05/05/95 TIME SENT: 15:55:00
=====

YOUR MAIL WAS NOT DELIVERED FOR THE FOLLOWING REASON:

SNADS STATUS : 000C
EXPLANATION : SNADS REQUEST PURGED
=====

RECIPIENT : AMGDAL.HUGHES1
LAST NAME : HUGHES
FIRST NAME : PATRICK
MIDDLE INITIAL :
INITIALS : M
NATIVE NAME : AMG/AMGDAL/HUGHES1
COUNTRY : US
ADMD : TELEMAIL

PRMD : HOECHST
ORGANIZATION :
ORG UNIT 1 :
ORG UNIT 2 :
ORG UNIT 3 :
ORG UNIT 4 :
DDA :
TITLE : APP RES MGR
DESCRIPTION :
USERDATA :
M 4 CG-HQS-DALLAS 3089 YA0870147161HUGHES HUGHES1
TELEPHONE : 8883807 UNITED STATES L PATRICK

101. DISTRIBUTION STATUS

From: "Postmaster" <POSTMSTR@SSWP.HCC.COM>
Date: 05 May 1995 16:26:16 GMT
To: aprssig@tapr.org
Message-ID: <SSWP.POSTMSTR.012226160095125FSSWP@HCC.COM>
Rendered body type: text/plain

SMTP.APRSSIG DISTRIBUTION STATUS INFORMATION 05/05/95 16:25:46
=====

DISTRIBUTION ID: SMTP.APRSSIG.5405
SUBJECT : .APRSSIG:1057. DISTRIBUTION STATUS
DATE SENT : 05/05/95 TIME SENT: 16:25:00
=====

YOUR MAIL WAS NOT DELIVERED FOR THE FOLLOWING REASON:

SNADS STATUS : 000C
EXPLANATION : SNADS REQUEST PURGED
=====

RECIPIENT : AMGDAL.HUGHES1
LAST NAME : HUGHES
FIRST NAME : PATRICK
MIDDLE INITIAL :
INITIALS : M
NATIVE NAME : AMG/AMGDAL/HUGHES1
COUNTRY : US
ADMD : TELEMAIL
PRMD : HOECHST
ORGANIZATION :
ORG UNIT 1 :
ORG UNIT 2 :
ORG UNIT 3 :
ORG UNIT 4 :
DDA :
TITLE : APP RES MGR
DESCRIPTION :
USERDATA :
M 4 CG-HQS-DALLAS 3089 YA0870147161HUGHES HUGHES1
TELEPHONE : 8883807 UNITED STATES L PATRICK

102. Re: [APRSSIG:1032] Re: Homebrew GPS Antennas?

From: jcw@kd4dts.radio.org (John C. Wren)
Date: Fri, 5 May 1995 09:14:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <m0s7NDZ-0007E9C@kd4dts.radio.org>
Rendered body type: text/plain

I wonder if the phase or group delay through one of these Radio Shack pre-amps will affect the accuracy of the position reporting. The problem probably wouldn't be apparent with SA on, but when off, it would be interesting to test.

John Wren
KD4DTS, Atlanta

>
> I have not tried to make my homebrew antenna yet, but I thought I would pass
> along the trick one of our local users did.
>
> He has a Motorola Encore GPS card with no active antenna. Being an antenna
> experimenter, he tried all sorts of things while anticipating the ordering

> of his own active antenna. Nothing worked: 1/4 waves, hawg fences,
> helixes, Nothing! Then he came across an old preamp that he uses for 1.2
> ATV sometimes. They sell them at Radio Shack as a Satellite TV Preamp
> (950-1450 MHz or so). It uses a power injector.
>
> He made a 1/4 wave for 1.6 Ghz or so on a piece of PC board and added the
> Radio Shack preamp at the antenna. The Motorola powered the amp right up
> the line without using the power injector. He now can GPS with pretty good
> success.
>
> I *know* that this is not the "correct" way to do this, and that a 1/4 wave
> is not really right for the pattern we want. I also know that the Radio
> Shack preamp is not really designed with this in mind, but it sorta worked.
> It may help someone out someday.
>
> Ralph Fowler
> N4NEQ Atlanta
>
>

103. Digipeaters

From: wno1le@fly.HiWAAY.net
Date: Fri, 5 May 95 17:43:17 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950505174544.wno1le@wno1le.HiWAAY.net>
Rendered body type: text/plain

Bob here are 3 to add to your list!.

KE4EER-5 !*****/3435.96N/08631.69WrPHG5760/WIDE..Huntsville, AL
N4KMJ-7 !*****/3329.10N/08548.53WrPHG5860/WIDE..Mt Cheaha, AL.. >
KB4IZF-2 !*****/3429.30N/08420.41WrPHG6760/WIDE..Oglethorpe Mt Jasper

```

      .  \  /  \  .
      | \  (o) (o)  / |
-----o00o-----oo-----o00o-----
      |               |
      |      KE4EER   |
      |      APRS 145.790Mhz |
      |      3458'34N-08629'53W |
      |               |
      |               |
      |      .ooo0    ( )   |
      |      ( )      ) /   |
      |      \ (      ( /   |
      |      \_      \_    |

```

104. Fwd: [APRSSIG:1054] KPC-3/MYRemote

From: Emmet2@aol.com
Date: Fri, 5 May 1995 20:47:47 -0400
To: aprssig@tapr.org
Message-ID: <950505204722_108534849@aol.com>
Rendered body type: text/plain

That may be true. I was refering, however, to digipeating NOT to connecting.
If you can digi off a node by making it's call some desired alias then you
should be able to do the same with remote and any other feature.

Chip Griffin - President of Thames River Apple Users Group
SysOp of The Quarry BBS (203-889-6427)

-----+-----
Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
N1MIE@N1OKK.CT.USA | 1:320/301 (fidonet)

Forwarded message:
From: jlf@achilles.mitre.org (James L. Fisher x6117)
Sender: aprssig@tapr.org
Reply-to: aprssig@tapr.org
To: aprssig@tapr.org
Date: 95-05-05 15:07:39 EDT

On Thu, 4 May 1995 Emmet2@aol.com wrote (about KPC-3s):

> Actually, I think you can get another digi alias by using the MYRemote
> command to set the remote alias to something else you want to be able to
> digi
> through. With the remote you will also have to set the RText.

I don't think that's correct. I believe that MYRemote is the node name you connect to remotely change your TNC parameters ("root" privileges in UNIX parlance).

Access to the MYRemote node is protected by a pseudo-time-varying password which depends on the user-specified RText string. Here's how that password is determined: (1) You connect to MYRemote; (2) The KPC-3 spits back some numbers; (3) You interpret each number as the character position in the RText string, and that's the password for this connect. (It's a little more involved than that, but that's the gist of it.)

--jim / WB3LFB@W3INK.MD.USA.NOAM

JamesL.FisherPhD//The MITRE Corp//Center for Info Sys//McLean
VA//jlf@mitre.org
703-883-6117

105. Re: [APRSSIG:1055] Re: Garmin GPS-40

From: jgarrett@world.std.com (John Garrett)
Date: Fri, 05 May 1995 20:30:06 -0400
To: aprssig@tapr.org
Message-ID: <ECiglmPA4A0N065yn@World.std.com>
Rendered body type: text/plain

" At 2:01 PM 5-4-95 -0500, Robert Kirk wrote:
"
" >\$299 is the going price from the marine stores: West, BoatUS, E&B. No tax
" >if you mail order from Defender.
"
" Could someone post the info on how to find these places for us landlubbers?
"
" -Greg

1-800-555-1212. Ask for the above store of your choice. Free, too.
John
WN9T

106. Re: [APRSSIG:1052] Re: Homebrew GSP Antennas?

From: jgarrett@world.std.com (John Garrett)
Date: Fri, 05 May 1995 20:28:21 -0400
To: aprssig@tapr.org
Message-ID: <bAiglmPA4QbV065yn@World.std.com>
Rendered body type: text/plain

"
" On Thu, 4 May 1995, Tim Smith wrote:
"
" > Anyone tried this yet? I'll like to make a small "hockey-puck"
" > antenna...perhaps pot one using silicon or epoxy in a small mold with a
" > magnet...any suggestions for a small helix? My dashboard application is
"
" APR REPLY: Tom Clark has been saying this for years. A single chip LNA
" amp at 1.6 GHz only costs about \$1.65. All someone has to do is to add
" it to a PATCH antenna etched on a circuit board, and we will have CHEAP
" HAM style GPS antennas.... Anyone??
"
" Well, I was whining here earlier, looking for design specs for patch
" antennas. Send em here, I'll build a couple and report back!!!
" John
" WN9T

107. EROS Data Center

From: DKAPLAN@netins.net (David Kaplan)
Date: Fri, 05 May 1995 19:53:52 -0500
To: aprssig@tapr.org
Message-ID: <199505060054.TAA14663@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

Bob, Nice to get a chance to meet you at Dayton. As per our conversation about the EROS data center in Sioux Falls South Dakota, the address is <http://sun1.cr.usgs.gov/>
They have all kinds of maps there. My question to you at Dayton was, "Can they be used with APRS?" This is the reminder of the maps you asked about.
73, Dave

108. Re: [APRSSIG:1051] Re: Freqs in Calif Bay Area

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Fri, 05 May 1995 22:09:01 -0500
To: aprssig@tapr.org
Message-ID: <199505060310.WAA01890@home.interaccess.com>
Rendered body type: text/plain

>
>On Thu, 4 May 1995, Bob B wrote:
>
>
>APR REPLY: I am building a single back up file with ALL known WIDE
>digipeaters on it. If you have a PERMANENT WIDE digipeater, please send
>it to me here by cutting out the POSIT from the PLIST and including it in
>a message. Do NOT send files and disks, its just too much trouble...
>
>Please, no EGO-peaters. Just BIG WIDES.... (include freq if not 5.79)
>
>

Bob,
Here are three to add to the list , all on 5.79

N9RER-15 !4153.04N/08738.01W#PHG5696/WIDE
(yes that PHG is correct 25 W at 650 Ft)

N9JOD !4158.38N/08841.05W#PHG5392/WIDE

N9LCI !4146.58N/08819.60WMPHG8160/WIDE
(KPC-3 WIDE-RELAY STATION)

Great meeting you at Dayton, keep it up !!!
73
Ed
N9LCI
>

109. Help with Tiny2 to Ultimeter

From: "John R. Engel" <jengel@RWIC.UND.NoDak.Edu>
Date: Fri, 5 May 1995 22:18:00 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SGI.3.91.950505221522.15965A-100000@oz.rwic.und.nodak.edu>
Rendered body type: text/plain

We just received a Tiny2 MK2 TNC and Ultimeter II weather station and are wondering how to change the TNC baud rate from 1200 to 2400.

We have tried 'BA 2400' from the 'cmd:' mode and we get '?unknown command'.

Any help would be greatly appreciated.

Thanks

de John

110. Re: [APRSSIG:1066] Help with Tiny2 to Ultimeter

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 5 May 95 23:52:17 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.799732337.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The TINY-2 needs to have its baud rate changed with jumpers inside the unit..

Take off the FRONT cover and the jumpers are right there..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

111. KPC-3 Digi Calls Resolved!

From: Larry Griffin AB5GE <largriff@onramp.net>
Date: Fri, 5 May 1995 23:05:18 -0500
To: aprssig@tapr.org
Message-ID: <199505060405.XAA00244@ns.onramp.net>

Message-ID: <Chameleon.950506152540.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

I don't know if this is the second message on this or not.
Well i wanted to know who was the bright guy that put a
Big Square box right in the middle of North Central Tennessee?.
That guy should be put on our chaingang here in Alabama for a
while, I can't get rid of that thing no matter what i do!. I have
found this ebtered into 4 or 5 of the maps files!. If i can't get
rid of it i'm going back to 68a. On top of that there's nothing
in the box, all it says is.

```
|-----|
|  BEST  |
| 2:000:000 |
|  MAP   |
|-----|
```

```
      \_/_/
     /_/_/_\
    | \ | (o)(o) | / |
-----o000o-----oo-----o000.-----
|          KE4EER          |
|    APRS 145.790Mhz      |
| 3458'34N-08629'53W     |
|          0ooo.         |
|-----|
|          .ooo0         |
|          ( )           |
|          ( )           |
|          \ (           |
|          \_)           |
```

115. Re: [APRSSIG:1071] HELP

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 6 May 1995 18:44:04 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505062344.SAA02896@solar.cs.tamu.edu>
Rendered body type: text/plain

wnolle@fly.HiWAAY.net sez:

```
>
> I don't know if this is the second message on this or not.
> Well i wanted to know who was the bright guy that put a
> Big Square box right in the middle of North Central Tennessee?
> That guy should be put on our chaingang here in Alabama for a
> while, I can't get rid of that thing no matter what i do!. I have
> found this ebtered into 4 or 5 of the maps files!. If i can't get
> rid of it i'm going back to 68a. On top of that there's nothing
> in the box, all it says is.
> |-----|
> |  BEST  |
> | 2:000:000 |
> |  MAP   |
> |-----|
```

Well, if you look back to Bob's comments about TN maps a day or so ago, you will find a comment about the particular maps. If you didn't read your mail, it's not my (OR Bob's) problem!

Go on. Re extract the 68a executable. Feel free.

```
>
>      \_/_/
>     /_/_/_\
>    | \ | (o)(o) | / |
>-----o000o-----oo-----o000.-----
> |          KE4EER          |
> |    APRS 145.790Mhz      |
> | 3458'34N-08629'53W     |
> |          0ooo.         |
> |-----|
> |          .ooo0         |
> |          ( )           |
> |          ( )           |
> |          \ (           |
> |          \_)           |
```

73. gerry

116. Fwd: [APRSSIG:1068] KPC-3 Digi Calls Resolved!

From: Emmet2@aol.com
Date: Sat, 6 May 1995 20:09:23 -0400
To: aprssig@tapr.org
Message-ID: <950506200921_109505283@aol.com>

Rendered body type: text/plain

Thanks for the information, I have been too busy to run the experiment (although with a KPC-9612 and a KPC-3 I certainly could have run the tests). Of course, you must set your real callsign into MYCall, so that only leaves MYAlias and MYNode for our newly discovered purposes.

Chip Griffin - President of Thames River Apple Users Group
SysOp of The Quarry BBS (203-889-6427)

Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
N1MIE@N10KK.CT.USA | 1:320/301 (fidonet)

Le plus je connais les hommes, le plus j'aime mon chien.

Forwarded message:

From: largriff@onramp.net (Larry Griffin AB5GE)
Sender: aprssig@tapr.org
Reply-to: aprssig@tapr.org
To: aprssig@tapr.org
Date: 95-05-06 00:10:39 EDT

OK... and the answer is...

The KPC-3 can digipeat as up to 3 different calls/aliases:

MYCALL, MYALIAS and MYNODE will digipeat.

MYREM and MYPBBS will NOT digipeat.

| Internet: largriff@onramp.net
Larry Griffin | Internet: ab5ge@amsat.org
AX25: ab5ge@w5ero.#wtx.tx.usa.noam

117. Thanks for no help at all

From: wnolle@fly.HiWAAY.net
Date: Sat, 6 May 95 19:11:19 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950506191704.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

Thanks Gerald Creager, I ask for help but i don't need messages back from you that are sarcastic. Did you ever consider the fact that my internet server has been having problems and that i did not get to read some of the messages. I hope i can do you a favor sometime my friend!. Don't you think it would have been just as easy to answer my question then to send me the message you did!!!!.

For your information i read every message that comes to me via the APRSSIG, and i did not see any pertaining to my question.

SO THANK YOU FOR NOTHING Mr CREAGER.

```
      \_/_/
     /_/_/ \_/_/
    | \ | (o)(o) | / |
-----o00o-----oo-----o00o.-----
|          KE4EER          |
|      APRS 145.790Mhz      |
|  3458'34N-08629'53W      |
|          0ooo.          |
|-----o00o0 ( )-----|
|          ( )          |
|          \ (          |
|          \_)          |
```

118. Re: [APRSSIG:1070] Help,Help

From: rwf@mindspring.com (rwf)
Date: Sat, 06 May 1995 21:56:44 -0500
To: aprssig@tapr.org
Message-ID: <199505070151.VAA02013@dylan.mindspring.com>
Rendered body type: text/plain

EER in Upper Alabama said:

>In version 68b in Mid Tennessee there is a square box
>which has the follwoing markings in it.
>
> BEST
> 2:000:000
> MAP
>
>There is absolutly nothing in that box and i have tryid
>to delete the Damn thing, whoever would put something
>like that in the middle of the state of Tn needs to be
>put in the chain gang here in Alabama Hi.

<Large signature deleted>

Bob said earlier that this was the location of his best map culled from the USGS cd rom with a new MAKEMAP.BAS program. However, there is nothing under that box on my TN map either. Maybe we are missing a smaller map for the inset.

Anyway Here is Bob's earlier message on the subject. Hope it helps, and let me know if you get it working. By the way- I see you popping up all the time on my APRS. Wonder if you saw me today, mobile to N. Carolina thru N GA. Will be doing it again tomorrow (Sunday) look for me if you can.

73
Ralph
N4NEQ

Earlier Msg form Bob:

I received a few weeks ago, a copy of a program written by KB4XF, Jack Cavanaugh of Fredericksburg VA (he wrote it a year ago! but assumed that it was obsolete when MAPFIX came out with CDRom capability) I finally got around to running it. WOW!

This program does the job of the USGS XTRACT.exe program AND my MAPFIX.bas program in ONE step! All you do, is select the state, and give a LAT/LONG and range for the center of the desired map.

It builds an APRS compatible map directly and uses a brute force method to get the number of points down to around 4 to 5000. By limiting the size of your requested map (about 40 miles in the east to maybe 70 in the rural west) you can minimize any effect of this built-in reduction process. If you then load this map into MAPFIX and use the more intelligent alt-SMOOTH command, you can easily get the number of points below 3000 with minimum manual steps.

MAKEMAPS takes from 5 minutes to an hour to run (depending on your machine) but requires NO HUMAN intervention!

Load the result into MAPFIX and successively use the alt-SMOOTH process at 1.2, then 1.3, then 1.4 and so on, until you have the number of points down to about 3500 or so. At this point you may want to go through and manually smooth out some really jagged county lines and eliminate the DUPLICATE second lanes of many multi-lane highways (at these scales, these are always IDENTICAL at all ZOOM ranges) To see if a duplicate line is there, use the FIND command on a midpoint (not an intersection) and then do a CTRL-FIND to see if there is a second point at the same spot.

MAKEMAPS.bas includes everything on the CD except for railroads and administrative boundaries. To see a typical map, zoom into my North Tennessee map TNnorth.map included in version 6.8b. It includes roads, rivers, lakes, and political boundaries.

This program will be posted on ARN by FRIDAY NIGHT, May 5th.

119. Re: [APRSSIG:1074] Thanks for no help at all

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 7 May 1995 08:54:11 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505071354.IAA12897@solar.cs.tamu.edu>
Rendered body type: text/plain

I'll apologize, at this point, for the tone of my message. However, it was engendered by your tone that set my teeth on edge.

I'd like to take an opportunity to suggest we all think before we post to a net resource like this in the future. I've noticed several posts that should have never left the keyboard in the last couple of weeks. Mine spooibly should have been in there.

As to whether your network provider isn't keeping up with the mail, well, I can't speak to that. In my experience, mail outages are somewhat less frequent than a lot of folks imagine: The Internet is considerably more reliable than the US Postal service.

73, gerry

120. Re: [APRSSIG:1070] Help,Help

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 7 May 1995 14:35:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950507143319.17917A@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 6 May 1995 wnolle@fly.HiWAAY.net wrote:

> In version 68b in Mid Tennessee there is a square box
> which has the follwoing markings in it.
>
> BEST
> 2:000:000
> MAP
>
> There is absolutly nothing in that box and i have tryid

APR REPLY: There should be an excellent map there called TNnorth.map It shows the level of detail available from the 2,000,000 maps. If U do not get that map when you zoom in below 32 miles in the center of the map, then your MAPLIST may be screwed up. FILE-CHANGE-MAPLIST to USA and it should be there...

121. testing

From: Jack_Anderson@f239.n109.z1.fidonet.org (Jack Anderson)
Date: Sun, 07 May 1995 20:37:00 -0400
To: "Aprssig@tapr.org"@blkcat.blkcat.com
Message-ID: <NOMSGID_1=3A109=2F239.0_950507_203700_5df85ed6@fidonet.org>
Rendered body type: text/plain

testing the link...

122. MacAprs

From: KeithB10@aol.com
Date: Sun, 7 May 1995 23:00:43 -0400
To: aprssig@tapr.org
Message-ID: <950507230042_110555375@aol.com>
Rendered body type: text/plain

Not sure if this is the right place for this.... If not someone let me know.... I am new to all of this. I have loaded the Ver 1.5.1a on my Power Pc 7100 and I get an "The application unknown has unexpectedly quit, because an error of type 1 occurred"
This happens in the terminal mode.... Everything else is working fine
Keith Bowman KA0VVX

123. Stand alone Ultimeter II

From: "Gerald H. Nies" <gnies@RWIC.UND.NoDak.Edu>
Date: Sun, 7 May 1995 22:45:11 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SGI.3.91.950507223054.11562B-100000@oz.rwic.und.nodak.edu>
Rendered body type: text/plain

Thanks for the help.

We want to use Ultimeter IIs as stand alone units for Skywarn here on the Minnesota/North Dakota border.

We have the Ultimeter II and Paccomm Tiny 2. When hooking the Ultimeter to the com port we are getting good data. When we connect to the tnc we are not getting the data sent out to be read by APRS.

We are using APRS 6.8b. I know it is being done. And it is probably in the readme files. I have tried everything that I have read and I must have missed something because I can't get it to work yet.

We want to give a demo to the NWS guys who are presently moving into our town so any help will be greatly appreciated.

Thanks for the help.

Gerry Nies

124. Re: [APRSSIG:1045] Re: Used Motorola GPS receivers

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Sun, 7 May 1995 21:54:09 -0700
To: aprssig@tapr.org
Message-ID: <199505080454.VAA05773@ix5.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>

>Dan,

>Thanks for the info on the HP200LX. Did you have to unload any of the canned

Didn't have to unload anything!

>software to make room on the system RAM? Which version of APRS are you running?

I'm running the latest version on the 200. Be sure to create the *new* SYSTEM subdirectory and put in those text file APRS calls on. The tweak a MAPLIST for those you want to carry and delete the unnecessary maps.

>Whose flash cards are you using?

I'm using a HP 5MB card with STACKER (comes with it) to raise capacity to around 10MB.

>Thanksm
>Joel Kandel, KI4T
>jkandel@gate.comm
>

Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

125. Re: [APRSSIG:1080] Stand alone Ultimeter II

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 8 May 1995 09:52:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950508094918.22121D@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 7 May 1995, Gerald H. Nies wrote:

> We want to use Ultimeter IIs as stand alone units for Skywarn here on the
> Minnesota/North Dakota border.
>

> We have the Ultimeter II and Paccomm Tiny 2. When hooking the
> Ultimeter to the com port we are getting good data. When we connect to
> the tnc we are not getting the data sent out to be read by APRS.

See README\WX.TXT

Set the GPS string in the TNC to * (or # whichever is the first character out of your U-II). Set ECHO OFF. Bias the output of the U-II as necessary to give good +/- transitions on the input of the TNC. Set LF IGNORE ON, and set the transmission rate for the LText to your desired period. Then put TNC into GPS mode.

Good Luck.

126. Re: [APRSSIG:1079] MacAprs

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Mon, 08 May 1995 10:37:30 -0600

To: aprssig@tapr.org, KeithB10@aol.com
Message-ID: <9505081037.AA30336@oscar.cayman.adclab.bls.com>
Rendered body type: text/plain

> Not sure if this is the right place for this.... If not someone let
> me know.... I am new to all of this. I have loaded the Ver 1.5.1a on
> my Power Pc 7100 and I get an "The application unknown has
> unexpectedly quit, because an error of type 1 occurred"
> This happens in the terminal mode.... Everything else is working
> fine Keith Bowman KAOVVX
>

I talked to Keith Sproul this weekend about this. The Terminal menu item was accidentally left turned on. This portion of the program is still under development. I expect a new version will be out shortly. Best thing is to not use that menu item.

Hope this helps,
Bruc
73 de KQ4TV

127. APRS & KAM PROBLEM

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Mon, 08 May 1995 10:43:08 CST
To: aprssig@tapr.org
Message-ID: <009900B8.F9054E10.445@INS.INFONET.NET>
Rendered body type: text/plain

Any ideas for Bill et al?

Original from WB0BBM to KB8IFX@N8JSF.#CIN.OH.USA.NA
Hello, name here is Bill wb0bbm
I have a Kam and have the same problem. Started with 68 for me also.
I tried 68a and 68b and also into an older Kantronics single port tnc.
Same problem with all. That was with two different computers.
Loaded into my laptop and hooked to mfj 1274 and no problem.
Well there is good news and bad news. I know whats wrong but can't figure out the fix.
The tnc config file is setting parity at 0. Well on the Kam no parity is 4.
If you do an (o) for operations then (c) for comm and then (t0) for tnc
Hit enter for the cmd prompt. You probably won't see anything but garbage,
but go ahead and type PAR 4 and then it should work from there.
I don't know what line in the tnc initialize file is doing it.
If you figure out what line to change please let me know.
It works just fine after I change the parity.

73's and good luck. Bill WB0BBM@w0bxx.ecia.ia.usa.na.

73, Bill W00MV

128. APRS ver 68c

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 8 May 1995 13:21:47 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950508130947.24926B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Here are the changes. Most are minor and 68a still looks good.

Ver 68c: Lessons learned at Dayton while driving with floppy CGA laptop!
* Boots up to Plist vice MAP in GPS modes so it does NOT draw HOME map 1st
* Fix so CGA's do NOT crash, but ignore F7 switch to 43 line mode.
* NO auto-switching to READ scrn on CGA's due to SLOW map-redraw requirement
* MAPS-WHICH command lets you see what map you are on
* alt-SETUP-GPS-NOgps can be toggled on/off without needing to re-validate
* Added Jet and Police (smokie reports) to symbols selection menu
* Added NWS watch/warning box to OBJ-AREAS (x miles either side of a line)
* Killed OBJ's now fade to gray
* Default is MAPLIST.USA, vice .APR. Users must learn CHG-MAP1st command
* Removed DF validation prompt unless you are DF configured.
* Automatic HF/VHF switching for PK-232 (un tested)
* SETUP-OTHER-AGL sets average Gnd level so Mobiles do not FLY in 3D
* increased WX alarms to 999 to avoid alarms on garbles
* Added dual port KAM transmission. see HF.txt and CONTROLS-2PORT command
* I think I fixed the CONNECT=> BLUE COMM SCREEN problem
* Added ARNAV parsing experimentally in the SPM mode.. Can anyone test?
* MAP-LOCK no longer tries to load WORLD map everytime
* Fixed F9 (CENTER) command. It had been ignoring calif
* NEW MAKEMAPS.bas greatly simplifies making 2,000,000:1 maps. See CDR0M.txt

Version 6.8b:

- * DX cluster MODE had NOT worked for new users since v67 because I had moved DXcalls.DAT file to the APRS\SYSTEM directory but forgot to tell APRS to look there! Old users still had a copy in APRS directory so it worked
- * New CONV100C.bas by W7KKE no longer crashes on building city street maps
- * At suggestion of N4BYU, added NWS symbol distinct from other WX symbol
- * Increased APRS MAX beacon period from 12 mins to 40 mins if unmanned
- * Improved MAC symbol
- * Eliminated Dupes of max-length lines on Traffic display.
- * APRS now warns LID's using DIGIS on HF
- * Telemetry page now refreshes in real time and displays in LAST first order

I keep wanting to add the remote phone-line dial in capability, but wonder if anyone will really use it? I know that I can not justify the extra \$20 per month for a phone line dedicated to this purpose. And although it will be neat to dial in to california and see what their network looks like, I cannot think of any JUSTIFICATION in an emergency tactical network for which APRS was designed. (assuming of course that phone lines are out).

Or to say it another way, I think many of us would enjoy the dial in capability for fun, but is there any of us that would dedicate a phone line to this application to satisfy everyone else? I'm going to investigate whether a phone line at work (not used at night) could be made available...

129. can Baycom do APRS?

From: Jon_Dickason@wb.xerox.com
Date: Mon, 8 May 1995 12:08:56 PDT
To: aprssig@tpr.org
Message-ID: <"<E278AE2F81CC2776>E278AE2F81CC2776@x-wb-0129-ms1.xerox"@-SMF->
Rendered body type: text/plain

Can I do APRS with a BAYCOM style modem? I tried running the TFPCX program which works with some other non-baycom programs, but it didn't work with APRS.

Jon Dickason, N2JAC@WB2PSI
APRS on 144.39 in Rochester NY
Jon_Dickason@wb.xerox.com

130. Re: [APRSSIG:1085] APRS ver 68c

From: Kent Larson <klaron@access.digex.net>
Date: Mon, 8 May 1995 16:15:03 -0400 (EDT)
To: aprssig@tpr.org
Message-ID: <Pine.SUN.3.91.950508160829.16180B-100000@access5.digex.net>
Rendered body type: text/plain

On Mon, 8 May 1995, Robert Bruninga wrote:

> I keep wanting to add the remote phone-line dial in capability, but
> wonder if anyone will really use it? I know that I can not justify the
> extra \$20 per month for a phone line dedicated to this purpose. And
> although it will be neat to dial in to california and see what their
> network looks like, I cannot think of any JUSTIFICATION in an emergency
> tactical network for which APRS was designed. (assuming of course that
> phone lines are out).

I think this feature would be great for a landline bulletin board such as Frequency Forum or ARN! If there was a bbs menu option that would perform something like a DOORWAY but to a running processs, APRS, it would really open up the number of users of APRS to people wanting to see local wx or a public service event in real-time.

Neat idea but I don't think the BBS software would support it unless it were in Unix or OS/2 -- a true multi-tasking operating system.

>

> Or to say it another way, I think many of us would enjoy the dial in
> capability for fun, but is there any of us that would dedicate a phone
> line to this application to satisfy everyone else? I'm going to
> investigate whether a phone line at work (not used at night) could be
> made available...

>

>

131. Re: [APRSSIG:1086] can Baycom do APRS?

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Mon, 8 May 95 16:28:13 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.799964893.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

APRS does not support KISS-MODE TNCs.. This is true for both the PC version and the Macintosh version. However, I am working on this type of support for the Mac version, but I don't expect to have it done before the end of summer, since there is too much other stuff of higher priority.

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

132. APRSG (a minimum system for GPS)

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 8 May 1995 17:59:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950508175045.27725A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well now that I have posted APRS68c (size = 376K), I went ahead and removed all DX stuff, the auto DF interfaces, and the NATL-Grid-REF for England and the CW routines to try to make a smaller EXE. The result was only 23K smaller, and probably NOT worth the effort. This program is identical to 68c except for the removals and is called APRSG.exe (for GPS...) It is 353K.

If this size reduction makes any difference to anyone, please let us know. Otherwise the hacking and potential for making new bugs in the process is probably not worth the risk. I will probably use it on my 8088 floppy laptop to give room for one more map.

If this extra 23K makes any difference in running TSR's or running under windows or os9, or anything else lets us all know... The program will be posted as APRSG.zip but only has the EXE in it.

133. Re: [APRSSIG:1087] Re: APRS ver 68c

From: janderson@ram.net (Jack Anderson)
Date: Mon, 08 May 95 19:17:12 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0bb8@ram.net>
Rendered body type: text/plain

>> I keep wanting to add the remote phone-line dial in capability, but
>> wonder if anyone will really use it? I know that I can not justify the
>> extra \$20 per month for a phone line dedicated to this purpose. And
>> although it will be neat to dial in to california and see what their
>> network looks like, I cannot think of any JUSTIFICATION in an emergency
>> tactical network for which APRS was designed. (assuming of course that
>> phone lines are out).

>

>I think this feature would be great for a landline bulletin board such as
>Frequency Forum or ARN! If there was a bbs menu option that would perform
>something like a DOORWAY but to a running processs, APRS, it would really
>open up the number of users of APRS to people wanting to see local wx or
>a public service event in real-time.

>

>Neat idea but I don't think the BBS software would support it unless it
>were in Unix or OS/2 -- a true multi-tasking operating system.

You are probably looking at an application where a user running APRS uses it as a term program to dial into another APRS. In this scenario, ONLY the ASCII data is sent over the phone line - not graphics. The calling APRS uses the ASCII position and beacon data to build its maps much like it would if it were listening to a local TNC. The APRS being called would act as a server, dishing out the same ASCII data it sees on its TNC com port to the modem port. The calling APRS is the client, using this low-level data to build its map. The contents of the P-list and other screens could also be transferred at the beginning of the session to bring the client up to date with the current screen being displayed at the server.

DOORWAYS and similar facilities work pretty good with ASCII text and ANSI

graphics but EGA graphics would be slow to send over a modem. APRS does not share the CPU well in multitasking environments either. I ran it along with my three BBS tasks under OS/2 and it brings everything else to its knees. It isn't designed to work in an multitasking environment so it doesn't care how often the keyboard is polled, etc.

Using the above example, a BBS could be set up with a TNC in "listen only" mode, spitting out raw monitored packets. Imagine an APRS with a "modem" screen, kind of like the screens we see today in APRS to talk directly to the TNC. User does ATDT ###-###-#### and brings up the BBS call, then doors to the door with the TNC data, then "Resumes APRS processing". APRS then listens to the data coming across the line, real time, until the user is done. This takes up a lot of valuable connect time on the BBS though. Better maybe to build a P-list and other files and let the user download them to get an instant snapshot of the current map and all activity for the last hour.

This begins to open up a bunch of interesting possibilities. Forgive me if this has been discussed before, but consider the possibility of using the Internet to wormhole multiple APRS nets together...this is being done with other packet networks and there's no reason why it couldn't work for APRS either.

Jack

134. Ulitmeter II and Tiny-2 TNC

From: George.Henry@f668.n115.z1.fidonet.org (George Henry)
Date: 08 May 95 16:47:20 -0600
To: aprssig@tapr.org
Message-ID: <27c_9505081730@chigate.fidonet.org>
Rendered body type: text/plain

Gerry Nies wrote:

Thanks for the help.

We want to use Ulitmeter IIs as stand alone units for Skywarn here on the Minnesota/North Dakota border.

We have the Ulitmeter II and Paccomm Tiny 2. When hooking the Ulitmeter to the com port we are getting good data. When we connect to the tnc we are not getting the data sent out to be read by APRS.

We are using APRS 6.8b. I know it is being done. And it is probably in the readme files. I have tried everything that I have read and I must have missed something because I can't get it to work yet.

We want to give a demo to the NWS guys who are presently moving into our town so any help will be greatly appreciated.

Are you using the same cable? The TNC is a Data Communications Device: it expects data to be transmitted to appear on pin 2. If you had it feeding data to a PC serial port (Data Terminal Equipment), you had the data appearing on RXD, pin 3. You either need a null modem adapter or to wire your cable with pins 2 and 3 switched.

I ran into the same problem when I first tried to wire a stand-alone GPS.... the TNC just wasn't getting the data 'cause I had the cable wired for the com port! Just threw a R/S null modem adapter in line and it went nuts.

73 de KA3HSW

135. Local Police/Fire GPS ?

From: Tim Smith <TSMITH@fibusa.com>
Date: Mon, 08 May 95 21:11:00 PDT
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2FAEE499@ipnovell.fibusa.com>
Rendered body type: text/plain

Hi fellow APRS'ers I have a questions about legal ramifications of APRS unmanned activity..well not quite unmanned. Let me set the scene:

I have pretty close ties to the Police Commissioner here in town and was telling him about the exciting new twist in my hobby that APRS has brought about. Being a former public servant (former CD Director & on the Fire & Rescue Department) I began to talk about applications revolving around public service. Let's cut to the chase..towards the end of the conversation he all but offered to allow me to but a GPS packet beacon on one of his

police cruisers for experimental purposes. My selfish reasoning is of course to satisfy my technical curiosity. However looking at the public service point-of-view it would be nice to track the pace vehicle in a bike or road race (which I'm sure many of you have already done). I'm really looking at the possibility of getting some map coordinates of our town with little effort.

I told him that in any case that the application could not be used for any routine police business except in the case of extreme, life threatening situations. Now...is the station in the truck of the cruiser a beacon station, unmanned packet digi, or simply illegal? When you guys track road races...and put stations in ambulances...is there an operator in the ambulance? How are these classified? Balloons?

Thanks,

Tim Smith
N1BTQ@KC1UA.MA
tsmith@fibusa.com
tsmith@umassd.edu
Mattapoissett, MA

136. Version 68C...WOW!!

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Mon, 8 May 1995 21:20:15 +0100 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950508211624.28696A-100000@pinegov>
Rendered body type: text/plain

Just downloaded version 68C....

Double kudo's to Bob (APR) for 2Port....been waiting a long time for that... and thanks for moving that nasty DON'T DIGI! message to a place where you know its there but it doesn't block the map.

PS...KAM code working great...even on my old version 5.0 ROM...

Short note for those running KAM gateways...I did notice that if you switch to the O/C/T screen....you will be in the mode you were in before you turned on 2PORT.

Keep up the good work!

73 de Kevin KD4UYR

(see...I can say nice things too)

137. GARMIN/GPS USER HELP

From: ChicagoWx@aol.com
Date: Mon, 8 May 1995 22:36:03 -0400
To: APRSSIG@tapr.org
Message-ID: <950508222524_111741436@aol.com>
Rendered body type: text/plain

I am looking to purchase a GPS, and my question is, is there certain GPS models that work great, and ones to avoid? I have been looking or hearing about the Garmin 45 for around \$200 dollars, I have access to a KPC-3 version 6 software which has GPS capabilities? I would like to know if this is true, and basically what it does, cause the doc's that come with the new KPC-3 is the version 5 manual.

If I buy the Garmin 45, and have the KPC-3, do I need to build a cable?

Where do I get the format to build this cable? I want to run this in the car, how about an antenna? I heard a quarterwave works, is this true, cause I have an extra. I just want to know how much more money has to be invested to get this up and running. Does the Garmin, tell direction and speed? I would like to have that also, even altitude available at my drivers side.

What is the difference between the garmin 40 and 45? I don't have a portable computer for the car so that is why I need self contained working APRS GPS setup.

Ron

138. APRS/U-II Lock Ups

From: ChicagoWx@aol.com
Date: Mon, 8 May 1995 23:46:43 -0400
To: APRSSIG@tapr.org
Message-ID: <950508222522_111741386@aol.com>
Rendered body type: text/plain

Hi,
I am running the Ultimeter II with APRS and it works great but after about a day of running, I will notice that APRS locked up cause it says SENDING TO TNC in the upper right hand corner in yellow and its stuck, I also took note it happens after it puts TRACK HISTORY information next to my station. Does anyone have this problem? It must be something with it sending data to the TRACK HISTORY that locks it up. Your information is helpful
Ron
N9QGS
Streamwood, IL

139. Middle East

From: "Sykes, Stephan E" <ses@rfpo2.rfc.comm.harris.com>
Date: Tue, 09 May 95 02:24:00 DST
To: APRS <aprssig@tapr.org>
Message-ID: <2FAF0A90@smtgate.rfc.comm.harris.com>
Rendered body type: text/plain

Does anyone have better maps of the Middle East (gulf Region)? I am looking for the UAE as a starter.
Also what is the meaning of the data in the \$GPGGA string. I can figure out the zulu time and position but not the rest.

Thank you
Steve Sykes kd2om/a61aa
ses@vectorbd.com

140. Houston BLT-10 GPS status

From: Arne Luehrs <arne@gplarne2.grenoble.hp.com>
Date: Tue, 9 May 95 08:45:01 +0100
To: aprssig@tapr.org
Message-ID: <9505090745.AA03337@gplarne2.grenoble.hp.com>
Rendered body type: text/plain

Begin forwarded message:

From: ALLER@mail.syntron.com
Date: Mon, 08 May 95 18:04:13 CST
To: blt@hp2.aws.waii.com, amsat-bb@AMSAT.Org
Subject: Houston BLT-10 GPS status

Our mail system crashed today and the following may not have made it out! Apologies if this is a duplicate ...

Notes on the balloon GPS status system de W5SXD - 8 May 1995

The BLT-10 balloon GPS package consists of a Motorola PVT6 GPS engine, a Kantronics KPC-3 TNC, and a two meter FM transceiver that puts out about 500 mW.

The following four packets are transmitted every 20 seconds from the GPS package:

W5SXD-9>BUF1 [95/05/08 13:08:25]: <UI>:
\$GPGGA,130808.00,2937.13,N,09537.16,W,1,04,2.3,-118.1,M,-23.2,M,,*71

W5SXD-9>BUF2 [95/05/08 13:08:25]: <UI>:
\$GPGSA,A,3,14,18,,29,,22,,,,,5.8,2.3,5.3*3F

W5SXD-9>BUF3 [95/05/08 13:08:26]: <UI>:
\$GPRMC,130808.00,A,2937.13,N,09537.16,W,2.0,301.0,080595,0.0,E*4B

W5SXD-9>BUF4 [95/05/08 13:08:26]: <UI>:
BLT-10 GPS test system de W5SXD, Sugar Land

The first three contain standard NMEA sentences. The \$GPGGA sentence contains the time, lat, lon, quality indicators, and height in meters. The \$GPGSA sentence contains a list of the satellites being used along with more quality indicators. The \$GPRMC sentence contains the time, lat, lon, speed over ground, course over ground, and the date. The BUF4 message simply contains information about the system and is only transmitted once per minute.

The W5SXD status software runs on a ground station. It grabs the NMEA sentences as they are transmitted, builds two status packets, and then digipeats the status thru the balloon package. At the time these examples were recorded, the package was in Mike, WA5TWT's house with a discone antenna on the two meter transceiver and the GPS

antenna outdoors. Mike's place is about 1.5 miles south of W5SXD.

```
W5SXD>STATUS,W5SXD-9* [95/05/08 13:08:33]: <UI>:
!3 95-05-08 13:08:08 balloon status de W5SXD
GPS: 3D 4 sats HDOP 2.3
lat 29 37.13'N, lon 95 37.15'W, -387.5 feet msl
moving 2.3 mph at 301 true over ground, climb -93 fpm
!
```

The first status packet contains GPS derived information about the package location. The message is bracketed by the ! characters. The first line contains a message serial number, the GPS date and time. The serial number, 3 in the example, is bumped for each new status packet. The second line contains the GPS status and quality. In this example, the GPS was operating in 3D mode using 4 satellites and a Horizontal Dilution Of Precision (HDOP) of 2.3. The third line shows the latitude, longitude in degrees and decimal minutes and the altitude in feet above mean sea level. The GPS accuracy is stated as being within 100 meters 95% of the time in the horizontal and within 200 meters vertically. Mike's house is about 20-30 meters above sea level so the vertical error is within specifications. The last line shows the speed over ground in miles per hour and the course over ground in degrees from true North. The climb rate in feet per minute is calculated from two adjacent fixes.

An example of the second status packet follows:

```
W5SXD>STATUS,W5SXD-9* [95/05/08 13:08:35]: <UI>:
#3 to balloon from (loc:az/el/dx) de W5SXD
SR5:052/000/041 SGR:095/-02/002 IAH:214/000/030 HOU:265/000/021
AUS:110/-01/133 BMT:250/000/090 SAT:087/-01/172 DFW:159/-01/241
ACT:145/-01/167 MSY:267/-02/323 GLS:298/000/052 SHV:209/-01/222
#
```

This packet shows the azimuth, elevation, and slant-range in miles from 12 airports to the package. The three letter codes are the nav beacon callsigns for the airport. This packet is bracketed by the # character and also has a serial number at the beginning of the first line.

The airport codes are:

- SR5 - Wharton, Texas (The launch site)
- SGR - Sugar Land, Texas
- IAH - Houston Intercontinental
- HOU - Houston Hobby
- AUS - Austin, Texas
- BMT - Beaumont, Texas
- SAT - San Antonio, Texas
- DFW - Dallas-Fort Worth, Texas
- ACT - Waco, Texas
- MSY - New Orleans, Louisiana
- GLS - Galveston, Texas
- SHV - Shreveport, Louisiana

This system will be first tested on the Clear Lake balloon launch currently planned for 13 May 1995.

Regards, Richard Allen, W5SXD, Sugar Land, Texas

141. Help with CD-ROM

```
From: wnolle@fly.HiWAAY.net
Date: Tue, 9 May 95 03:50:41 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950509035703.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain
```

I'm rather confused about the CD-Rom maps. I see the 1:000:000 and the 2:000:000 which one do you order to get the best detail let's say in a 32 mile area, would love to make some down to street level in some areas, and still be able to use the MAPMAKER.BAS program?. Thanks in advance for the info.

| KE4EER |


```
|      APRS 145.790Mhz      |
|      3458'34N-08629'53W  |
|-----|
```

For the person that didn't like the size of my signature because it did not look professional, HOW'S THIS. I'm not making it any smaller Hi....

142. Re: [APRSSIG:1096] Middle East

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Tue, 9 May 95 7:45:54 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.800019954.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

>Does anyone have better maps of the Middle East (gulf Region)?

I am working on maps of the world.. I have some CDs with GOOD detail of the rest of the world, and am working on being able to create maps from them. The program I announced a couple weeks ago, MacMapMaker, will enable the creation of this type of maps for the PC and the Mac versions of APRS. I hope to have this program in beta by the end of the month or early June.

>What is the meaning of the data in the \$GPGBGA string....

The rest is
0/1 flag saying if the signal is valid
0-6 number of sats currently being used
n altitude
M unit of altitude
n height of geodetic sphere
M unit of altitude
and I think one or two other fields..

the *xx at the end is a checksum and can be ignored..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

143. Re: [APRSSIG:1095] APRS/U-II Lock Ups

From: janderson@ram.net (Jack Anderson)
Date: Tue, 09 May 95 07:51:56 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0bbc@ram.net>
Rendered body type: text/plain

>Hi,

>I am running the Ultimeter II with APRS and it works great but after about a day of running, I will notice that APRS locked up cause it says SENDING TO TNC in the upper right hand corner in yellow and its stuck, I also took note it happens after it puts TRACK HISTORY information next to my station. Does anyone have this problem? It must be something with it sending data to the TRACK HISTORY that locks it up. Your information is helpful

>Ron

>N9QGS

>Streamwood, IL

I had this problem too. I was running it on a 386-25 with a 16450 UART equipped serial card. The problem disappeared when I installed a new 16550 UART equipped serial card. APRS now runs for weeks at a time.

Jack

144. Re: [APRSSIG:1089] APRSG (a minimum system for GPS)

From: kirk@neptune.gsfc.nasa.gov (Robert Kirk)
Date: Tue, 09 May 1995 08:11:22 -0400
To: aprssig@tapr.org
Cc: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <199505091214.IAA04217@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

>

>Well now that I have posted APRS68c (size = 376K), I went ahead and removed all DX stuff, the auto DF interfaces, and the NATL-Grid-REF for England and the CW routines to try to make a smaller EXE. The result was only 23K

>smaller, and probably NOT worth the effort. This program is identical to
>68c except for the removals and is called APRSG.exe (for GPS...) It is
>353K.
>
>If this size reduction makes any difference to anyone, please let us know.
>Otherwise the hacking and potential for making new bugs in the process is
>probably not worth the risk. I will probably use it on my 8088 floppy
>laptop to give room for one more map.
>
>If this extra 23K makes any difference in running TSR's or running under
>windows or os9, or anything else lets us all know... The program will be
>posted as APRSG.zip but only has the EXE in it.

Only 23K? As a gov't employee I know that there's always room for more cutting.

I currently run 62C at 328K on a 2M HP Palmtop without trouble. I'll probably upgrade to aprsg and not the 68c just because I don't need the extra features, and not because I'm running out of memory (yet). I do hope you'll keep a stripped version available just because I believe in economy, something like operating qrp whenever possible.

Bob Kirk
N3OZB

145. Re: [APRSSIG:1094] GARMIN/GPS USER HELP

From: kirk@neptune.gsfc.nasa.gov (Robert Kirk)
Date: Tue, 09 May 1995 08:28:58 -0400
To: aprssig@tapr.org
Cc: ChicagoWx@aol.com
Message-ID: <199505091231.IAA04271@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 21:48 5/8/95 -0500, ChicagoWx@aol.com wrote:

>I am looking to purchase a GPS, and my question is, is there certain GPS
>models that work great, and ones to avoid? I have been looking or hearing
>about the Garmin 45 for around \$200 dollars, I have access to a KPC-3 version
>6 software which has GPS capabilities? I would like to know if this is true,
>and basically what it does, cause the doc's that come with the new KPC-3 is
>the version 5 manual.
>If I buy the Garmin 45, and have the KPC-3, do I need to build a cable?
>Where do I get the format to build this cable? I want to run this in the
>car, how about an antenna? I heard a quarterwave works, is this true, cause
>I have an extra. I just want to know how much more money has to be invested
>to get this up and running. Does the Garmin, tell direction and speed? I
>would like to have that also, even altitude available at my drivers side.
>What is the difference between the garmin 40 and 45? I don't have a
>portable computer for the car so that is why I need self contained working
>APRS GPS setup.
>Ron

Garmin has taken over the market share for low cost GPS handhelds with their 40 & 45. Both retail at \$299 and are good reliable stand alone position finders with course speed & waypoint navigation, but you'll need to spend another couple of hundred for the bells & whistles for remote antenna, remote power supply, I/O support, etc. If you're good at home brewing you can do some of that yourself with the 45 which has a BNC antenna connection and better power latitude. They both give altitude, which like all GPS units, isn't very good without Differential correction - which means hooking up a 300KHz (that's right KHz - dumb Coast Guard) receiver. Both units stop computing when your speed reaches 90kts (103mph) which shouldn't bother you unless you're a pilot or drive awfully fast.

There is a lively discussion of this subject on sci.geo.satellite-nav where they discuss cable making, pinouts, etc for home brewers. I don't know anyone who's the 40 or 45 with a TNC, but I'd expect it to work fine. I use an older Motorola myself.

Bob Kirk
N3OZB

146. Re: [APRSSIG:1090] Re: APRS ver 68c

From: Kent Larson <klarson@access.digex.net>
Date: Tue, 9 May 1995 08:29:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950509075955.22318B-100000@access5.digex.net>
Rendered body type: text/plain

On Mon, 8 May 1995, Jack Anderson wrote:

> You are probably looking at an application where a user running APRS uses it
> as a term program to dial into another APRS. In this scenario, ONLY the
> ASCII data is sent over the phone line - not graphics. The calling APRS uses
> the ASCII position and beacon data to build its maps much like it would if
> it were listening to a local TNC. The APRS being called would act as a
> server, dishing out the same ASCII data it sees on its TNC com port to the
> modem port. The calling APRS is the client, using this low-level data to
> build its map. The contents of the P-list and other screens could also be
> transferred at the beginning of the session to bring the client up to date
> with the current screen being displayed at the server.

Along the lines of HTML and RIPTERM I guess.

>
> DOORWAYS and similar facilities work pretty good with ASCII text and ANSI
> graphics but EGA graphics would be slow to send over a modem. APRS does not
> share the CPU well in multitasking environments either. I ran it along with
> my three BBS tasks under OS/2 and it brings everything else to its knees. It
> isn't designed to work in an multitasking environment so it doesn't care how
> often the keyboard is polled, etc.

Yeah, it's a system hog alright. But that's ok, it is getting pretty
efficient on a straight DOS box.

>
> Using the above example, a BBS could be set up with a TNC in "listen only"
> mode, spitting out raw monitored packets. Imagine an APRS with a "modem"
> screen, kind of like the screens we see today in APRS to talk directly to the
> TNC. User does ATDT ###-###-#### and brings up the BBS call, then doors to the
> door with the TNC data, then "Resumes APRS processing". APRS then listens to
> the data coming across the line, real time, until the user is done. This
> takes up a lot of valuable connect time on the BBS though. Better maybe to
> build a P-list and other files and let the user download them to get an
> instant snapshot of the current map and all activity for the last hour.

I like the idea of the bbs periodically building all the lists and maybe
an HST file for people to download. This would not tie up the bbs and
therefore might encourage ll bbs' to offer the service. The lists could
be updated every 10 minutes or so and be more "real time" so to speak.

>
> This begins to open up a bunch of interesting possibilities. Forgive me if
> this has been discussed before, but consider the possibility of using the
> Internet to wormhole multiple APRS nets together...this is being done with
> other packet networks and there's no reason why it couldn't work for APRS
> either.

How about an ftp site that could be feed files from several APRSNET sites
around the world. Using your scenario above, the remote APRSNET sites
could periodically upload APRS files to the main ftp site for people to
download as they wanted. If the site were a WWW site then the files could
be bitmaps of the latest APRS data that was displayed on a screen.
Automating the screen snapshots and possible conversions might be a
problem. Managing the files at the ftp site might be a bigger problem. :)

I haven't seen any discussion of this topic on the SIG before.

>
> Jack
>

Thanks Jack, you always have great insights and ideas!

Kent

147. Re: [APRSSIG:1103] Re: APRS ver 68c

From: janderson@ram.net (Jack Anderson)
Date: Tue, 09 May 95 09:25:44 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0bbd@ram.net>
Rendered body type: text/plain

>Yeah, it's a system hog alright. But that's ok, it is getting pretty
>efficient on a straight DOS box.

And I'm not bashing it - but DOS programs typically aren't multitasker
friendly unless an effort is made to design the program that way.

>> This begins to open up a bunch of interesting possibilities. Forgive me if
>> this has been discussed before, but consider the possibility of using the
>> Internet to wormhole multiple APRS nets together...this is being done with
>> other packet networks and there's no reason why it couldn't work for APRS
>> either.

>How about an ftp site that could be feed files from several APRSNET sites
>around the world. Using your scenario above, the remote APRSNET sites
>could periodically upload APRS files to the main ftp site for people to
>download as they wanted. If the site were a WWW site then the files could
>be bitmaps of the latest APRS data that was displayed on a screen.
>Automating the screen snapshots and possible conversions might be a
>problem. Managing the files at the ftp site might be a bigger problem. :)

I'm thinking more of a service like the "chat nodes" except they are fed with
APRS raw data instead of messages typed by users. Let the TNCs do the
typing, then anyone with an Internet-equipped APRS could log on and just
"listen", and even throw his/her own data into the link.

A more useful application would be to link areas on different frequencies or
too far away from each other for reliable direct links. Have a TNC on one
end retransmit all heard data to the "APRS Chat Node" and on the other end, a
TNC to pump this data out over the air.

Jack

148. Re: [APRSSIG:1092] Local Police/Fire GPS ?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 9 May 1995 09:26:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950509091909.2497A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 8 May 1995, Tim Smith wrote:

> Hi fellow APRS'ers I have a questions about legal ramifications of APRS
> unmanned activity..well not quite unmanned. Let me set the scene:
>
> I told him that in any case that the application could not be used for any
> routine police business except in the case of extreme. life threatening
> situations. Now...is the station in the truck of the crusier a beacon
> station, unmanned packet digi, or simply illegal? When you guys track road
> races...and put stations in ambulances...is there an operator in the
> ambulance? How are these classified? Balloons?

CLINTONS REPLY: Don't ask, Don't tell. hi hi

It seems that most TNC's are left unattended most of the time. WWhen one
builds a stand-alone-tracker and puts his call in it, he is taking
responsibility for the technical emissions and operational application of
the device. He should continue to monitor its operation and be prepared
to cease operations if the device causes interference or if it is being
operated in a manner not in conformance with the FCC rules. Whether it
is at arms length, in your driveway, or across town, it is performing the
task that you programmed into it.

I think that the scenario that you discussed is just fine. It shows that
HAMS are still on the leading edge, and demonstrations of new technology
is a fundamental plank of the amateur service.

149. dial-in feature

From: jlf@achilles.mitre.org (James L. Fisher x6117)
Date: Tue, 9 May 95 09:28:40 EDT
To: aprssig@tapr.org
Message-ID: <9505091328.AA00363@achilles.mitre.org>
Rendered body type: text/plain

Related to Jack Anderson's comments on the dial-in client/server APRS model
where only ASCII data is sent over the phone line...

The suggested implemtation sounds similar to another capability I'd find
useful: to be able to let my TNC, via a VT100 emulator, dump to a file all
night and then read this "raw" file into APRS*.exe the next day and have the
APRS data displayed. (My portable pkt station uses a tiny Baycom modem on a
laptop, and the Baycom TNC software and APRS*.exe can't work together...yet.)

This capability would also useful on "non-APRS" frequencies where BBSs, digis,
and nodes beacon their position in APRS format. Then I could have a position

map made automatically for me, and I wouldn't have to manually extract the data. (This assumes the "raw data" reader simply ignores all strings not beginning in APRS format.)

--jim / WB3LFB@W3INK.MD.USA.NOAM

JamesL.FisherPhD//The MITRE Corp//Center for Info Sys//McLean VA//jlf@mitre.org
703-883-6117

150. Re: [APRSSIG:1093] Version 68C...WOW!!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 9 May 1995 09:42:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950509092745.2497B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 8 May 1995, Kevin Heyboer wrote:

> Double kudo's to Bob (APR) for 2Port....been waiting a long time for that...
>
> PS...KAM code working great...even on my old version 5.0 ROM...
>
> Short note for those running KAM gateways...I did notice that if you
> switch to the O/C/T screen...you will be in the mode you were in before
> you turned on 2PORT.
>

APR REPLY: The exact implementation is as follows:

- 1) The KAM is still operated in the HF or VHF port mode that it was/is in. In other words, ALL packets will be originated on the selected band.
- 2) When you shift to 2PORT mode, the KAM still does everything on the selected port, but then temporarily shifts to the opposite mode and sends a duplicate copy of ONLY the following packets:

POSIT, BEACONS, OBJECTS, ACKS

It does NOT send MESSAGES, Queries, or Pings, etc

The rationale is that some HF msgs are transmitted for hours or days until ACKED, so duping them onto VHF adds a lot of QRM. You will need to use the CONTROLS-HF or VHF command to select the band on which you are PRIMARILY communicating. Unfortunately, the 2PORT flag covers up the HF/VHF band indicator (although it is there). I will change this in my next release, so that it displays something like 2HF and 2VHF so you can still see which band is primary.

151. Re: [APRSSIG:1095] APRS/U-II Lock Ups

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 9 May 1995 09:46:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950509094459.2497C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 8 May 1995 ChicagoWx@aol.com wrote:

> I am running the Ultimeter II with APRS and it works great but after about a
> day of running, I will notice that APRS locked up cause it says SENDING TO
> TNC in the upper right hand corner in yellow and its stuck, I also took note
> it happens after it puts TRACK HISTORY information next to my station. Does

APR REPLY: Check your APRS\HSTS directory. If you have been running APRS for a long time, you may have filled up your hard Drive with hundreds of track history files. But ususally you will get an error 61 DISK FULL error.

152. Re: [APRSSIG:1096] Middle East

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 9 May 1995 09:51:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950509094709.2497D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 9 May 1995, Sykes, Stephan E wrote:

> Also what is the meaning of the data in the \$GPGGA string. I can figure out
> the zulu time and position but not the rest.

GGA is time, lat, long, 1/0, #of sats, HDOP, height, Gsep, age, ref

where 1/0 indicates if fixes are good or not
HDOP is horizontal dilution of precision. (a measure of precision)
Gsep is the actual difference between the geoid and sealevel
age is the age of the last differential correction
ref is the reference station used for differential correction

153. Re: [APRSSIG:1097] Houston BLT-10 GPS status

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 9 May 1995 10:17:34 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950509095344.2497E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 9 May 1995, Arne Luehrs wrote:

```
> From: ALLER@mail.syntron.com
> Notes on the balloon GPS status system de W5SXD - 8 May 1995
> -----
>
> The BLT-10 balloon GPS package consists of a Motorola PVT6 GPS engine,
> a Kantronics KPC-3 TNC, and a two meter FM transceiver.
> The following four packets are transmitted every 20 seconds:
>
> W5SXD-9>BUF1 [95/05/08 13:08:25]: <UI>:
> $GPGGA,130808.00,2937.13,N,09537.16,W,1.04,2.3,-118.1,M,-23.2,M,,*71
>
> W5SXD-9>BUF2 [95/05/08 13:08:25]: <UI>:
> $GPGSA,A,3,14,18,,29,,22,,,,,5.8,2.3,5.3*3F
>
> W5SXD-9>BUF3 [95/05/08 13:08:26]: <UI>:
> $GPRMC,130808.00,A,2937.13,N,09537.16,W,2.0,301.0,080595,0.0,E*4B
>
> W5SXD-9>BUF4 [95/05/08 13:08:26]: <UI>:
> BLT-10 GPS test system de W5SXD, Sugar Land
> -----
```

APR CAUTION!!!! APRS WILL NOT TRACK THIS BALLOON! (unless....)

There are 5 things that will prevent APRS from "seeing" this balloon.

- 1) APRS only monitors UI frames to the generic addresses of APRS, BEACON, QST, CQ, SKYWRN, SPCL, etc. It will NOT see packets to BUF (Unless the APRS user remembers to set CONTROLS-OTHER ON)
- 2) The default APRS Balloon symbol will only be used if the SSID is -11 (or if another UI frame is transmitted with the symbol char enclosed (in braces. See SYMBOLS.txt)
- 3) APRS must see the NMEA data on the same line as the packet header (turn Headerline off for receiving TNC)
!!! BE SURE THAT LFIGNORE is ON in the transmitting TNC if you are using a straight through CONVERS UI mode!!!!!! Otherwise EVERY packet will be transmitted with a LEADING LF!
- 4) APRS must see the NMEA data as the first data after the colon following the header (in these packets, there is a <UI>: inserted at the beginning of each packet (turn MCOM off)
- 5) APRS must NOT see the DATE-TIME stamp inserted on the received packets. (Turn MSTAMP off)

NOW OF COURSE, THE ABOVE "PROBLEMS" 3 - 5 are probably the result of the setup of the "RECEIVING" TNC and NOT of the transmitting TNC. And, of course, the originator of that message was NOT using APRS but had his receiving TNC configured for the best HUMAN display. But I thought this was a good opportunity to remind everyone of what APRS DOES like to see:

```
W5XSD-11>APRS:$GPGGA.....
W5XSD-11>APRS:$GPRMC.....
etc
```

I hope this helps other balloonists. That leading line feed which can get in there when using an OEM card driving a TNC in UI CONVERSE mode is a KILLER! It cannot be corrected at the receiving end. and APRS will NEVER decode a posit.

154. RE: [APRSSIG:1102] Re: GARMIN/GPS USER HELP

From: "Sadowski, P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Tue, 09 May 95 07:20:00 cdt

To: aprssig <aprssig@tapr.org>
Message-ID: <2FAF5C94@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

From: aprssig
To: aprssig
Subject: [APRSSIG:1102] Re: GARMIN/GPS USER HELP
Date: Tuesday, May 09, 1995 7:43AM

At 21:48 5/8/95 -0500, ChicagoWx@aol.com wrote:
>I am looking to purchase a GPS, and my question is, is there certain GPS
>models that work great, and ones to avoid? I have been looking or hearing
>about the Garmin 45 for around \$200 dollars, I have access to a KPC-3
version
>Ron

- - - and to poorly paraphrase blah blah blah.. the reply was (again
poorly
paraphrased) - - the full content not being important for my question.

>Garmin has taken over the market share for low cost GPS handhelds with
>thgeir 40 & 45. Both retail at \$299 and are good reliable stand alone
position
>blah blah blah
>Bob Kirk
>N30ZB

Two requests.... 1) where can I get Garmin 45's at \$200 or \$ 300.... the
Marine equipment suppliers I deal with charge \$300 for the 40 and \$400 for
the 45... I'll buy several 45's at \$200 and a couple at \$300.... BTW - -
at these prices for GPS the Coasties should shut down LORAN ASAP.... 2)
folks - please put your INTERNET address with your Signature block... I
like seeing many of the postings here... but I would also like to reply
directly to some with specific questions... however, the reply
address I get here is the APRSSIG address and I'm reluctant to ask the
questions and have them cluttering up everyone's mail....

This SIG has been a great resource in my efforts to determine what might be
necessary to track Helo's in a simple (read that not spending BIG \$\$\$)
manner. For those that may be concerned with the high dynamic direction of
a previous posting of mine - I will not be using HAM freq's - just Gov't
ones... but I need the rapid position update rates. To the individual that
mentioned the KPC-3 time slotted broadcast technique... THANKS !!! this is
much better than the slotted ALOHA approach my system was headed for... I'm
"pulsing" Kantronics to see how you can assign different trackers - -
different time slots...

Thanks in Advance

Al
AH6LS
sadowskp@USAFCRQS.NELLIS.AF.MIL

155. Re: [APRSSIG:1111] Re: GARMIN/GPS USER HELP

From: kirk@neptune.gsfc.nasa.gov (Robert Kirk)
Date: Tue, 09 May 1995 11:47:27 -0400
To: sadowskp@USAFCRQS.NELLIS.AF.MIL, aprssig@tapr.org
Message-ID: <199505091550.LAA06380@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 09:53 5/9/95 -0500, Sadowski,P CPT USAF CRQS/RQEN wrote:
>
>>Garmin has taken over the market share for low cost GPS handhelds with
>>thgeir 40 & 45. Both retail at \$299 and are good reliable stand alone
>position
>>blah blah blah
>>Bob Kirk
>>N30ZB
>

>Two requests.... 1) where can I get Garmin 45's at \$200 or \$ 300.... the
>Marine equipment suppliers I deal with charge \$300 for the 40 and \$400 for
>the 45... I'll buy several 45's at \$200 and a couple at \$300.... BTW - -
>at these prices for GPS the Coasties should shut down LORAN ASAP.... 2)

The prices are \$300 for either the Garmin 40 or 45, available at West Marine,
BoatUS, Defender Industries. They all have 800 #'s for catalog ordering,
and match each other's prices. No one sells for \$200, and remember the
hidden extras.

Warning: as I said, neither of those units will work over 90kts, so you'd better have slow helos. I think that's a ploy by Garmin to force aviators to buy their more expensive aviation version, which is essentially the same as the 40/45 without the software stopping computation at 90kts. In my world we use GPS on satellites going at 20,000mph, and computation is not a problem.

> folks - please put your INTERNET address with your Signature block... I
>

OK... kirk@neptune.gsfc.nasa.gov

aka Bob Kirk N30ZB

>A1
>AH6LS
>sadowskp@USAFCRQS.NELLIS.AF.MIL
>
>

156. Re: [APRSSIG:1098] Help with CD-ROM

From: philkeys@olympus.net (Phil Keys)
Date: Tue, 9 May 1995 09:14:55 -0800
To: aprssig@tapr.org
Message-ID: <199505091612.JAA04426@olympus.net>
Rendered body type: text/plain

I'm also confused about CD-ROM maps also. I bought a 1:100,000 scale DLG hydrography/transportation optional format CD-ROM map from USGS but MacAPRS doesn't recognize it.

--
philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360
) 379-8650 122 44.0W 48 02.0N

157. Help not forthcoming

From: wnoille@fly.HiWAAY.net
Date: Tue, 9 May 95 12:03:09 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950509121311.wnoille@wnoille.HiWAAY.net>
Rendered body type: text/plain

I have received several messages from users having the same problem i'm having and that is there's not anyone willing to give us any information on how and what you have to do to be able to make maps using the CD-Rom. I have connected to the USGS map service. There are many, many maps available their but i'm still confused as to the format required. I have seen a question posted here before asking this same question. Fellows the maps are available, but it would be great if some of you Guru's would share your knowledge with some of us that are not experts in this field. Maps are available in the 1,000.000 and the 2,000.000 resolution. They are even available for City's within your state. And yes i did read the mapmaking doc files, but they assume your already familier with how to do this. I was planning on ordering a CD-Rom but right now don't have no idea at all on what to order!. So please fellows share some info with us users that also would like to have better maps.

William Nolle (KE4EER)
wnoille@hiwaay.net
KE4EER@K4BFT.#NOAL.AL.USA.NOAM

158. JamesL.Fisher's response to my mail problem

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Tue, 09 May 95 10:18:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <2FAF8633@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Jim

Appreciate your instructions on the addressing...
but guess what... my mail system doesn't work the
same way as your mail system... it's a home grown
kludge and it also doesn't allow your

"JamesL.FisherPhD//The MITRE Corp//Center
...//McLeanVA//jlf..... header !!!!!

- - it's just kicked back as an unparseable address not
in the form of zzzz@xx.xx.xx.xx... it doesn't like the //'s
so I can only send this trash to everyone so that you
will get the response... my apologies to everyone else
here for a senseless E-Mail - due to what appears to
be a shortcoming on my systems part....

Thanks
Al
AH6LS
sadowskp@usafcrqs.nellis.af.mil

159. Test Message

From: wnoille@fly.HiWAAY.net
Date: Tue, 9 May 95 13:11:59 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950509131324.wnoille@wnoille.HiWAAY.net>
Rendered body type: text/plain

My provider is having lots of problems, Just a test.

William Nolle (KE4EER)
wnoille@hiwaay.net
KE4EER@K4BFT.#NOAL.AL.USA.NOAM

160. APRS & CDs !!!!

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Tue, 9 May 95 14:27:46 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.800044066.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

Regarding all the questions about the USGS CDs

There are TWO main types of CDs.. One is the 1:2,000,000 CD, which is a
YELLOW cd. Both the Mac and the PC support this CD.

The other one (Set) is 1:100,000 scale CD, which is also supported by both,
but on the PC, ONLY on a small scale due to the large amount of data on this
CD. The Mac version that supports the 1:100,000 has not been widely
distributed, but will be fully supported in the MacMapMaker program.

The thing that has added some confusion is that for the 1:100,000 data, it
is now up on Internet, and is available in BOTH Optional and Standard format.

The 1:100,000 CDs are ONLY available in OPTIONAL (Except for Florida, be
careful). Currently, the Optional format is what is supported by the Mac and
PC programs.

I am working on a NEW program that will do CONVERSION of !!!ALL!!!! of these
data types to BOTH PC APRS map files AND MAC APRS map files. This program
will run on the Mac, but will have FULL editing and data reduction
capabilities..

This program is called MacMapMaker and should be out sometime in early June.
Yes, I know it only runs on the Mac, but it will be VERY useful for the PC
people in that it will solve a lot of this map data format confusion. The
documentation will explain in gory detail all of the different types of data,
where they can be acquired (free via Internet, or how to buy the CDs).

Below is the original message announcing this program...

Keith Sproul

Begin of forwarded message..

As most of you know, I write the MACINTOSH version of APRS, called MacAPRS.
This program is fully compatible with the PC version as far as the on-air

protocols go. Bob and I keep in touch and make sure that anything done over the air is coordinated between us.

Over the past few weeks, there has been a LARGE discussion about how difficult it is to create good maps on the PC. Those that have seen BOTH the PC version and the MAC version have been very jealous of the Mac's Map creating capabilities.

In fact, several people have asked "Why don't you create PC maps?" or "I wish I could create maps that easily!"

Well.. I am working on it!!!!!!!

I discussed this with Bob last night, and although I have told a few people about this, I had not given a lot of details. Here goes the details..

So far, the MacAPRS program has had the capability to create MAPS from within the program. It could convert PC maps, it could create maps from the USGS 1:2,000,000 CD (what most of the maps are from) It could also create maps from the USGS 1:100,000 CDs (See the Feb issue of 73 magazine for an example) and it could create maps from a couple other sources of map data. In fact the stuff that is supported or is being worked on is growing almost weekly.

The problem with this 'GROWING' was that there was getting to be a LOT of stuff in MacAPRS just for creating and editing MAPS!! About a month ago Mark, KB2ICI, (my brother and co-author of MacAPRS) and I decided that it might be a good idea to separate this map making/editing out into a new program.

So, I am now announcing MacMapMaker (MMM for short). This program will do ALL of the current map stuff supported by MacAPRS, it will allow EDITING of the maps and will have the ability to create map files for the PC version of APRS.

MacMapMaker will have LOTS of editing capabilities, color selection, line smoothing, line adding, deleting, dynamic point reduction (For the PC maps) This will show you the CURRENT map, show you what it would look like at the next level down, i.e. data reduction, etc, so that you can keep playing until you get a map with small enough number of points, but high enough detail to get the job done.. You will be able to merge data, delete sections, most anything you could think of in editing/creating maps.. It will also support different coordinate systems such as Lat/Lon, UTM, State-Plane, and the different GPS Datums available.

To be able to do a lot of this type of high-end graph theory takes a fair amount of work and effort. This program will NOT run on a Mac Plus, it will require a color Mac and at least 8 meg of memory, but this is what you need to be able to this level of graph theory and data reduction..

The base program will probably be demo-ed at Dayton, and I expect to have PC map creation done sometime this summer, or at least by the ARRL DCC conference in Dallas in September.

MacMapMaker will be able to support most freely available map data bases and will also be able to use GPS input for creating maps of local areas..

Currently supported or being worked on:

USGS 1:2,000,000	(the YELLOW CD)
USGS 1,100,000	(the RED CDs) (14 CDs of the US)
WDB & MWDB	World Data Bank (publicly available, CD & Internet)
DCW	Digital Chart of the World (4 CD-ROM set)
Tiger Files	US Census
USGS DEM	Digital Elevation Data (For CONTOUR Lines)
Named Location Database	(147,000 Named geographic locations in the US)

Another nice thing is that a LOT of this data is available FREE on the Internet.

(If you know of other publicly available data, please let me know, I will incorporate anything I can get my hands on...I am working on a few more than listed above, but these are the ones I will support first..)

end of forwarded message

Keith Sproul

Ham Radio: WU2Z

Student Housing Network Coordinator
Rutgers University Computing Services
<http://www-ns.rutgers.edu/~ksproul/>

ksproul@noc.rutgers.edu
908 445-3695 Work
908 821-4828 Home

161. Re: APRS ver 68c

From: MikeKE6EGK@aol.com
Date: Tue, 9 May 1995 14:31:58 -0400
To: aprssig@tapr.org
Message-ID: <950509143156_112500955@aol.com>
Rendered body type: text/plain

Please correct me if I am wrong, but I feel this is kind of getting away from what this is supposed to be about,

--> Amateur "RADIO" <--

-----Begin Included Message-----

>> This begins to open up a bunch of interesting possibilities. Forgive me if
>> this has been discussed before, but consider the possibility of using the
>> Internet to wormhole multiple APRS nets together...this is being done with
>> other packet networks and there's no reason why it couldn't work for APRS
>> either.

>How about an ftp site that could be feed files from several APRSNET sites
>around the world. Using your scenario above, the remote APRSNET sites
>could periodically upload APRS files to the main ftp site for people to
>download as they wanted. If the site were a WWW site then the files could
>be bitmaps of the latest APRS data that was displayed on a screen.
>Automating the screen snapshots and possible conversions might be a
>problem. Managing the files at the ftp site might be a bigger problem. :)

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APRS raw data instead of messages typed by users. Let the TNCs do the
typing, then anyone with an Internet-equipped APRS could log on and just
"listen", and even throw his/her own data into the link.

A more useful application would be to link areas on different frequencies or
too far away from each other for reliable direct links. Have a TNC on one
end retransmit all heard data to the "APRS Chat Node" and on the other end, a
TNC to pump this data out over the air.

-----End Included Message-----

162. Re: [APRSSIG:1114] Help not forthcoming

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Tue, 9 May 1995 11:38:42 -0700
To: aprssig@tapr.org
Message-ID: <199505091838.LAA20609@archimedes.vislab.navy.mil>
Rendered body type: text/plain

>but i'm still confused as to the format required. I have seen
>a question posted here before asking this same question.
>Fellows the maps are available, but it would be great if some
>of you Guru's would share your knowledge with some of us that
>are not experts in this field. Maps are available in the

I've only read the messages on this group for the last two months, never
made a CDROM map (only tablet digitized 2), and read the map docs. From
what I've gathered, you need the USGS DLG (Digital Line Graph) CDROM in
either 1:2mil or 1:100k in the optional format. In my experience,
experimenting with MAPFIX.BAS and other map making utilities enlightened me
far more than just reading about it :-)

73, jan
kc6uth

Jan Anthony Barglowski	Phone: (619) 927-1057
Computer Dude	Internet: jan@archimedes.nwc.navy.mil
Visualization Lab	Packet: SYSOP@WA6YBN.#SOCA.CA.US.NA
Naval Air Warfare Center	kc6uth@kc6uth.ampr.org
-Weapons Division	[44.17.2.6]

163. Re: [APRSSIG:1118] Re: APRS ver 68c

From: dvezlez@ix.netcom.com (Daniel Velez)
Date: Tue, 9 May 1995 13:24:22 -0700
To: aprssig@tapr.org
Message-ID: <199505092024.NAA12494@ix4.ix.netcom.com>
Rendered body type: text/plain

You wrote:

```

>
>Please correct me if I am wrong, but I feel this is kind of getting away
>from what this is supposed to be about,
>
--> Amateur "RADIO" <--
>
>-----Begin Included Message-----
>>> This begins to open up a bunch of interesting possibilities. Forgive me i
>>> this has been discussed before, but consider the possibility of using the
>>> Internet to wormhole multiple APRS nets together...this is being done with
>>> other packet networks and there's no reason why it couldn't work for APRS
>>> either.
>
>>How about an ftp site that could be feed files from several APRSNET sites
>>around the world. Using your scenario above, the remote APRSNET sites
>>could periodically upload APRS files to the main ftp site for people to
>>download as they wanted. If the site were a WWW site then the files could
>>be bitmaps of the latest APRS data that was displayed on a screen.
>>Automating the screen snapshots and possible conversions might be a
>>problem. Managing the files at the ftp site might be a bigger problem. :)
>
>I'm thinking more of a service like the "chat nodes" except they are fed with
>APRS raw data instead of messages typed by users. Let the TNCs do the
>typing, then anyone with an Internet-equipped APRS could log on and just
>"listen", and even throw his/her own data into the link.
>
>A more useful application would be to link areas on different frequencies or
>too far away from each other for reliable direct links. Have a TNC on one
>end retransmit all heard data to the "APRS Chat Node" and on the other end, a
>TNC to pump this data out over the air.
>-----End Included Message-----
>
I think we'd be foolish to not take advantage of the resources of the huge
computer networks out there. And why shouldn't (or can't) amateur radio
interface with other technologies??? Repeaters interface with computers and
telephones, HF rigs can do the same, and what the heck does a GPS satellite
have to do with amateur radio? - Experimentation and furthering our interests
in maintaining the right to have the hobby available to us.

Use your imagination...

Dan

--
-----
dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!
-----

```

164. Re: [APRSSIG:1104] Re: APRS ver 68c

From: Kent Larson <klarson@access.digex.net>
Date: Tue, 9 May 1995 17:20:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950509170223.19285A-100000@access5.digex.net>
Rendered body type: text/plain

On Tue, 9 May 1995, Jack Anderson wrote:

```

> >How about an ftp site that could be feed files from several APRSNET sites
> >around the world. Using your scenario above, the remote APRSNET sites
> >could periodically upload APRS files to the main ftp site for people to
> >download as they wanted. If the site were a WWW site then the files could
> >be bitmaps of the latest APRS data that was displayed on a screen.
> >Automating the screen snapshots and possible conversions might be a
> >problem. Managing the files at the ftp site might be a bigger problem. :)
>
> I'm thinking more of a service like the "chat nodes" except they are fed with
> APRS raw data instead of messages typed by users. Let the TNCs do the
> typing, then anyone with an Internet-equipped APRS could log on and just
> "listen", and even throw his/her own data into the link.

```

I guess I am thinking that people may not want to make a Chat link and wait an hour or two with the link up to see what is happening on the other side of the link. It would be perfect if when the connection is first made the APRS system that is initiating the connection could get a blast of the current (active?) history from a file or memory on the remote (connected to) site and then save it to disk. This would allow people to surf from site to site gathering real-time info. Example: I'm driving to

Florida from DC and want a quick picture of the wx (you know, all those little blue circles that cover my route) to So. Carolina where I plan on stopping for the night. Surf to the appropriate sites, save the info then print it on your new color lazer printer to take with me. Think we can get this working by the end of the week??? :))

>
> A more useful application would be to link areas on different frequencies or
> too far away from each other for reliable direct links. Have a TNC on one
> end retransmit all heard data to the "APRS Chat Node" and on the other end, a
> TNC to pump this data out over the air.

This would solve the problem above by putting all the wx info on MY map all the time. I like this idea the BEST! :)

>
> Jack
>

Kent

165. Re: [APRSSIG:1121] Re: APRS ver 68c

From: janderson@ram.net (Jack Anderson)
Date: Tue, 09 May 95 17:59:01 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0bc0@ram.net>
Rendered body type: text/plain

>I guess I am thinking that people may not want to make a Chat link and
>wait an hour or two with the link up to see what is happening on the other
>side of the link. It would be perfect if when the connection is first
>made the APRS system that is initiating the connection could get a blast
>of the current (active?) history from a file or memory on the remote
>(connected to) site and then save it to disk. This would allow people to
>surf from site to site gathering real-time info. Example: I'm driving to
>Florida from DC and want a quick picture of the wx (you know, all those
>little blue circles that cover my route) to So. Carolina where I
>plan on stopping for the night. Surf to the appropriate sites, save the
>info then print it on your new color lazer printer to take with me. Think
>we can get this working by the end of the week??? :))

I got it working now! C'mon over!

heh

166. RE: [APRSSIG:1118] Re: APRS ver 68c

From: Tim Smith <TSMITH@fibusa.com>
Date: Tue, 09 May 95 17:38:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <2FB00DC4@ipnovell.fibusa.com>
Rendered body type: text/plain

>Please correct me if I am wrong, but I feel this is kind of getting away
>from what this is supposed to be about,

> --> Amateur "RADIO" <--

Hey...loosen that shirt collar a little. If our hobby limited experimentation within the confines of "radio" I think it would be pretty boring. Amateur radio is so easily integrated into other hobbies and activities in our personal lives. In my opinion it is the other technologies and activities like APRS that keep amateur radio exciting and useful in todays technology oriented society. Take a look at the ARRL and RSGB handbooks....it's not just about "radio".

73,

Tim N1BTQ
tsmith@fibusa.com

167. RE: [APRSSIG:1105] Re: Local Police/Fire GPS ?

From: Tim Smith <TSMITH@fibusa.com>
Date: Tue, 09 May 95 18:11:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <2FB00DC9@ipnovell.fibusa.com>
Rendered body type: text/plain

>I think that the scenario that you discussed is just fine. It shows that
>HAMS are still on the leading edge, and demonstrations of new technology
>is a fundamental plank of the amateur service.

Thanks!

Tim

168. Loading *.MAP files

From: ChicagoWx@aol.com
Date: Tue, 9 May 1995 20:08:21 -0400
To: APRSSIG@tapr.org
Message-ID: <950509200815_112913137@aol.com>
Rendered body type: text/plain

Hello everyone,

I have taken the local ILCHICGO.MAP, and made a version that has just county outlines, one that has Townships, and working on one with town names. I was wondering how do I chnage between the standard APRS map ILCHICGO.MAP and my maps which I have given slightly different names, do I need to alter the MAPLIST? These maps just look different but they are really the same size and all of the ILCHIGO one, is there a command in APRS that will allow me to type in the name of the map I want to use? or do I have to exit APRS and rename the file ILCHICGO.MAP and go back into APRS?

Ron

169. Re: [APRSSIG:1108] Re: APRS/U...

From: ChicagoWx@aol.com
Date: Tue, 9 May 1995 20:08:21 -0400
To: aprssig@tapr.org
Message-ID: <950509200819_112913257@aol.com>
Rendered body type: text/plain

Bob, its when my Track History reaches 100% it crashes, how do I control the track history... How does it get turned on, and how does it work... Cause its when the track history reaches 100% it locks up APRS.....

170. Re: [APRSSIG:1114] Help not forthcoming

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 9 May 1995 19:08:52 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505100008.TAA05217@solar.cs.tamu.edu>
Rendered body type: text/plain

wnolle@fly.HiWAAY.net sez:

>

> I have received several messages from users having the same
> problem i'm having and that is there's not anyone willing to
> give us any information on how and what you have to do to be
> able to make maps using the CD-Rom. I have connected to the
> USGS map service. There are many, many maps available their
> but i'm still confused as to the format required. I have seen

Sorry: I missed the question before... I must have been reading with the 'd' key again :-)

IF you connect to the USGS FTP site, and work your way down to the area of interest, you will see a number of files available. These will have .std and/or .opt file extensions. You need to grab the .opt files of interest.

NOW: We need to see if a) you have been reading those info screens of junk they put on the FTP sites telling you something that may, or may not, be inportant; or, b) the GUI FTP client you use decided for you that you don't need to read that junk at all, anyway.

Be that as it may, there was a little macro command for unix systems in the 100_K_DLG (I think) directory. The 100k files, both std and opt, are undelimited. You need to reblock the files. I've not investigated a program to do this on the PC, although I suspect I could do this pretty easily in qbasic or dBase. I just don't have time.

For the short term, if you can identify SPECIFIC files you need converted on a unix system, I suppose I can do that, although I need to find a spot I can leave the finished products for access... That ends up being a lot of data to

deadhead.

73, gerry N5JXS
gerry@cs.tamu.edu

171. Re: [APRSSIG:1104] Re: APRS ver 68c

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>
Date: Tue, 9 May 1995 12:47:25 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <9505091247.aa18588@comix.Santa-Cruz.Ca.US>
Rendered body type: text/plain

> I'm thinking more of a service like the "chat nodes" except they are fed with
> APRS raw data instead of messages typed by users. Let the TNCs do the
> typing, then anyone with an Internet-equipped APRS could log on and just
> "listen", and even throw his/her own data into the link.

1. If the radio is unattended, and if the guests are going
to transmit, they should be licenced. Otherwise, it's receive only.

2. I do something like this now. I don't want to have my DOS/Win95
box running APRS all day. I have my TNC connected to a serial
port on my SCO Unix box and just capturing data. A simple Bourne
shell script vaporizes anything that isn't from APRS. Users can
login to my Unix box's BBS, download a days worth of transmissions,
and play them back at their leisure.

3. I use the APRS terminal mode (talk to the tnc) to dial
a modem instead of the tnc, call my Unix box, use "cu"
(a unix communications program) to connect to the tnc,
and run a live APRS session (from home). This arrangement
is rather user hostile and has only been attempted by the
Unix literate.

4. Something similar could be attempted over the internet.
I haven't tried that yet.

--

Jeff Liebermann Box 272 1540 Jackson Ave Ben Lomond CA 95005
408.336.2558 voice wb6ssy@ki6eh.#nocal.ca.usa wb6ssy.ampr.org [44.4.18.10]
408.699.0483 digital_pager 73557.2074 cis [don't]
jeffl@comix.santa-cruz.ca.us scruz.ucsc.edu!comix!jeffl

172. Re: [APRSSIG:1094] GARMIN/GPS USER HELP

From: rwf@mindspring.com (rwf)
Date: Wed, 10 May 1995 00:33:02 -0500
To: aprssig@tapr.org
Message-ID: <199505100428.AAA18740@dylan.mindspring.com>
Rendered body type: text/plain

>I am looking to purchase a GPS, and my question is, is there certain GPS
>models that work great, and ones to avoid? I have been looking or hearing
>about the Garmin 45 for around \$200 dollars

\$300.00 The Garmin is great!

, I have access to a KPC-3 version
>6 software which has GPS capabilities? I would like to know if this is true,
>and basically what it does, cause the doc's that come with the new KPC-3 is
>the version 5 manual.

Kantronics will give you 1 upgrade free. There was a note with mine. I
bought 3 new KPC 3's in Dayton for 95 bucks each. All were the latest
firmware. I *did* have to enter the command: Interface Terminal to
get it to recognize APRS beacons, though. Then APRS could properly
initialize it.

>If I buy the Garmin 45, and have the KPC-3, do I need to build a cable?

Yes

> Where do I get the format to build this cable?

Depends on if you have 1 or 2 serial ports on your computer. Read the GPS
file in the APRS "Readme" subdirectory.

I have the layout for a Garmin to PC cable in my FTP directory:

ftp.mindspring.com/users/~rwf

> I want to run this in the car, how about an antenna? I heard a
quarterwave works, >is this true, cause
>I have an extra.

The Garmin works fine in the windshield. Or use a *short* BNC/BNC extension
cable. You can buy or make an active (preamplified) antenna as well.

I just want to know how much more money has to be invested
>to get this up and running. Does the Garmin, tell direction and speed? I
>would like to have that also, even altitude available at my drivers side.

Yes it does all that. Most of them do.

> What is the difference between the garmin 40 and 45?

40 is stripped down. Not as versatile on power sources, no removable
antenna, weird connector for external antenna, and a few other things.

I don't have a
>portable computer for the car so that is why I need self contained working
>APRS GPS setup.
>Ron

Hope these answers help.

Ralph Fowler, N4NEQ
Kennesaw, GA rwf@mindspring.com

173. WIDE in Peoria

From: N9RLR@aol.com
Date: Wed, 10 May 1995 00:45:14 -0400
To: aprssig@tapr.org
Message-ID: <950510004512_113311740@aol.com>
Rendered body type: text/plain

We at long last have a very respectable WIDE in the Peoria,IL area. Hope
everyone out there passing through and setup enjoys.
N9RLR-9 WIDE N9RLR-1 QTH N9RLR-2 Mobile w/GPS

N0ID
N9RLR

174. Re: [APRSSIG:1118] Re: APRS ver 68c

From: Kent Larson <klarson@access.digex.net>
Date: Wed, 10 May 1995 07:55:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950510075333.7424B-100000@access5.digex.net>
Rendered body type: text/plain

--> Your Corrected <--

Kent

On Tue, 9 May 1995 MikeKE6EGK@aol.com wrote:

> Please correct me if I am wrong, but I feel this is kind of getting away
> from what this is supposed to be about,
>
> --> Amateur "RADIO" <--
>
> -----Begin Included Message-----
> >> This begins to open up a bunch of interesting possibilities. Forgive me i
> >> this has been discussed before, but consider the possibility of using the
> >> Internet to wormhole multiple APRS nets together...this is being done with
> >> other packet networks and there's no reason why it couldn't work for APRS
> >> either.
>
> >How about an ftp site that could be feed files from several APRSNET sites
> >around the world. Using your scenario above, the remote APRSNET sites

> >could periodically upload APRS files to the main ftp site for people to
> >download as they wanted. If the site were a WWW site then the files could
> >be bitmaps of the latest APRS data that was displayed on a screen.
> >Automating the screen snapshots and possible conversions might be a
> >problem. Managing the files at the ftp site might be a bigger problem. :)
>
> I'm thinking more of a service like the "chat nodes" except they are fed with
> APRS raw data instead of messages typed by users. Let the TNCs do the
> typing, then anyone with an Internet-equipped APRS could log on and just
> "listen", and even throw his/her own data into the link.
>
> A more useful application would be to link areas on different frequencies or
> too far away from each other for reliable direct links. Have a TNC on one
> end retransmit all heard data to the "APRS Chat Node" and on the other end, a
> TNC to pump this data out over the air.
> -----End Included Message-----
>

175. BAD MAPS!!! WARNING!!!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 10 May 1995 10:49:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950510103452.13607A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

In the last few weeks, I have been using the MAKEMAPS.bas program
(written by someone else) to generate LOTS of maps from the 2,000,000 CD
ROM. The maps contain all features and result in about 30 to 40 mile
maps. It is a turn-key operation.

@\$%#\$@## BUT TODAY, I JUST HAPPENED TO FINISH THE OUTTERBANKS map and
noticed that when zooming between the USAEast map and the NCobanks map,
that the coast line was off. I then began to get this queezy feeling and
checked out the MAKEMAPS program and found that the author mapped all of
the data to the PC SCREEN aspect ratio, instead of to the real world!

So all of my recent (excellent) map work is WASTED! You may use these
maps for normal APRS net activity, since everyone is using the same map
and placing themselves on the map visually, but as soon as someone drives a
GPS through them, they are useless!

CAUTION!! DO NOT MAKE ANY MORE MAPS WITH MAKEMAPS.bas from the 2,000,000 CD.
I dont have time to dig in and fix this right away either, so if someone
else wants to look into the code please feel free. The LATITUDE appears to
be CORRECT, but the HORIZONTAL LONGITUDE seems to be expanded somewhat...
The error can be as much as 10 miles on a 64 mile map at the edges!

MAPS AFFECTED: SCeast, SCseast, SCneast, TNnorth, NCoBanks, PANwest,
GAneast, and any other maps Ive made since mid April

176. Re: [APRSSIG:1114] Help not forthcoming

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 10 May 1995 11:10:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950510110407.13607E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 9 May 1995 wnolle@fly.HiWAAAY.net wrote:

> I have received several messages from users having the same
> problem i'm having and that is there's not anyone willing to
> give us any information on how and what you have to do to be
> able to make maps using the CD-Rom.
> And yes i did read the mapmaking
> doc files, but they assume your already familier with how to
> do this.

APR REPLY: You need to read CDROM.txt. All of the info is in there.
I am sorry that it is difficult and confusing, BUT IT IS DIFFICULT AND IT
IS CONFUSING! IT is not easy and it is time consuimg and it is a pain. I
do NOT recommend it for people who are upset by tedium, hi hi

See my recent posting today. I have just wasted 3 weeks of mapmaking
efforts when I found out that the program I was using was generating
incorrect LONGITUDES. And Im supposed to be an expert! Oh well...

Good luck...

177. Re: [APRSSIG:1125] Loading *.MAP files

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 10 May 1995 11:40:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950510113541.13607H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 9 May 1995 Chicagowx@aol.com wrote:

>
> I have taken the local ILCHICGO.MAP, and
> made a version that has just county outlines,
> one that has Townships, and working on one with town names.
> I was wondering how do I change between the standard APRS
> map ILCHICGO.MAP and my maps which I have given slightly different names, do
> I need to alter the MAPLIST? These maps just look different but they are
> really the same size and all of the ILCHIGO

APR REPLY: APRS loads maps in Hierarchical order as listed in the MAPLIST. Only the LAST message in the MAPLIST that meets the loading criteria will be used. The loading criteria is that the ENTIRE existing screen range must fit within the RANGE of the map as listed in MAPLIST.

You can have TWO maps of the same area, but only the LAST one listed will EVER be loaded. BUT! You may use the MAPS-ALT command, and APRS will load the NEXT-TO-THE-LAST map that meets the criteria. This way you can have one map with all COUNTY borders on it, and one with all the roads, etc, and selectively load one or the other. This trick will NOT work for more than 2 identical maps. Why not put everything in the SAME map, and just use the MAPS-FEATURES-BORDERS command to SUPPRESS the county lines when not needed?

178. Re: [APRSSIG:1126] Re: APRS/U...

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 10 May 1995 11:43:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950510114209.13607I-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 9 May 1995 Chicagowx@aol.com wrote:

> Bob, its when my Track History reaches 100% it crashes, how do I control the
> track history... How does it get turned on, and how does it work... Cause
> its when the track history reaches 100% it locks up APRS.....
>

APRS REPLY: Use the CONTROLS-log command to toggle on and off the automatic saving of track history files.

If you are crashing, are you sure you have an APRS\HSTS directory for APRS to SAVE-TO????

179. SILVA hardware

From: Bob Sayers <bsayers@implex.co.uk>
Date: Wed, 10 May 95 14:59:18 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.950510150345.bsayers@implex.epline.implex.co.uk>
Rendered body type: text/plain

Greetings from a new member of this list!

Apologies if this topic has been discussed before, but could anyone advise me if they are using, or thinking of using, the handheld GPS manufactured by SILVA, better known for their orienteering compasses, etc?

I looked at these when they first came out last year, and was impressed by a couple of features (low-cost map plotter, built-in fluxgate compass) but put off by the high price in the UK.

Are they sold in the US, and can anyone let me know the price there?

Name: Bob Sayers
Emergency Planning Unit, West Midlands Fire Service,
Lancaster Circus, Birmingham, UK
E-mail: bsayers@epline.implex.co.uk (Bob Sayers)

'phone: 0121-380-7611
Date: 04/19/95
Time: 15:08:34

180. REMOTE APRS ACCESS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 10 May 1995 12:04:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950510114521.13607J-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

For the remote BBS dial-in or INTERNET access to remote APRS nets, the programming for that is FAR beyond my meager abilities. I can easily write an APRS phone line answerer, but as I noted in my previous message and has been reflected here, it will be much more effecient (less costly) if this capability is added to EXISTING BBS or INTERNET mechanisms. So here is what the APRS end of the interface will probably look like:

SIMPLE: Just look at the format of the BACKUP files. Since APRS already has the mechanism to instantly load in a file of that format, and also to SAVE one at any time, then, that will probably be the interface.

You BBS code writers and or INTERNET GURU's just tell me how you want APRS to periodically "SAVE" or WRITE out the serial port, a BACKUP file that the BBS or INTERNET box can save for its users.

Then tell me what kind of loggin "SCRIPT" is needed to fetch it, and Ill do it.

181. RE: [APRSSIG:1114] Help not forthcoming

From: "John W. (Bill) Hays, W00MV" <billh@INS.INFONET.NET>
Date: Wed, 10 May 1995 11:21:03 CST
To: aprssig@tapr.org
Message-ID: <00990250.99EB9224.475@INS.INFONET.NET>
Rendered body type: text/plain

I wonder how many times Keith has to send a bulletin to this SIG about his MacMAPMAKER program. It will be available fairly soon. It WILL make maps for both the Mac version of APRS called MacAPRS and for the IBM or rather MS-DOS version called APRS.

Mac users will be able therefore to make maps in as very short period of time for either the Mac or the MS-DOS versions.
73, Bill W00MV

182. Which DOS

From: eashway@VNET.IBM.COM
Date: Wed, 10 May 95 12:49:37 EDT
To: aprssig@tapr.org
Message-ID: <199505101700.MAA15799@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

>I wonder how many times Keith has to send a bulletin to this SIG about his
>MacMAPMAKER program.
>It will be available fairly soon. It WILL make maps for both the Mac version
>of APRS called MacAPRS and for the IBM or rather MS-DOS version called APRS.

It would be OK, Bill, to make reference to either Microsoft or IBM, in that both write & sell what you are referring to here as 'DOS'.

Actually it would probably be more politically correct these days to say:
"It will be available farily soon. It will make maps for both the Mac version
of APRS, called MacAPRS, and for Intel based machines running DOS, called
APRS."

73 - Ed - W9KTH

183. Re: APRS ver 68c

From: MikeKE6EGK@aol.com
Date: Wed, 10 May 1995 13:59:29 -0400
To: aprssig@tapr.org
Message-ID: <950510135928_113834624@aol.com>
Rendered body type: text/plain

I wrote,

>Please correct me if I am wrong, but I feel this is kind of getting away
>from what this is supposed to be about,
>
> --> Amateur "RADIO" <--

-----Begin Included Message-----

I think we'd be foolish to not take advantage of the resources of the huge computer networks out there. And why shouldn't (or can't) amateur radio interface with other technologies??? Repeaters interface with computers and telephones, HF rigs can do the same, and what the heck does a GPS satellite have to do with amateur radio? - Experimentation and furthering our interests in maintaining the right to have the hobby available to us.

Use your imagination...

-----End Included Message-----

I agree with you on most of your points but I question two basic things.

1. As I remember the the title page of this program reads "Automatic Packet Reporting System" not "Automatic Internet Reporting System". :-) I believe that the spirit of this system is and should continue to be based on radio communications systems, systems that can and are operated independantly of commercial power and/or telephone connections. Where do you turn when mother nature throws a temper tantrum, to the internet or to your radio? Bob would like to see a Nation Wide network using the same frequencies, I would like to see a system similar to the existing packet forwarding systems with HF, VHF & UHF links and gates, systems that can be operated independantly, and accessed regardless of what mother nature has to offer. (good old battery power) Lets continue to refine and expand the existing radio based systems, and networks, before we become dependant upon outside sources.

2. When was the last time you saw a GPS satellite connected to a twisted pair? :-) [would that be a random length wire antenna?]

-----Begin Included Message-----

Hey...loosen that shirt collar a little. If our hobby limited experimentation within the confines of "radio" I think it would be pretty boring. Amateur radio is so easily integrated into into other hobbies and activities in our personal lives. In my opinion it is the other technologies and activities like APRS that keep amateur radio exciting and useful in todays technology oriented society. Take a look at the ARRL and RSGB handbooks....it's not just about "radio".

-----End Includes Message-----

I agree that Experimentation is what Amateur Radio is about, it is exciting to see the ways that radio communications can and are interfaced with other technologies, after all we wouldn't be having this exchange of ideas if it weren't for other technologies. Please remember that the interfacing that APRS enjoys with other technologies (ie GPS Satellites) is a passive interface and APRS can be operated with or with out it. (I guess I am back to good old battery power, and networking and I won't beat that horse anymore) :-)

Oh by the way, It is difficult to find a shirt with a loose collar when you have an 18" neck. :-) And I do not want my money back!! ;-)

73 to all, its been fun.
de Mike
MikeKE6EGK@aol.com
KE6EGK@KA6JLT.#NOCA.CA.USA.NOAM

184. Re: [APRSSIG:1107] Re: Version 68C...WOW!!

From: JayKQ4MS@aol.com
Date: Wed, 10 May 1995 14:01:26 -0400
To: aprssig@tapr.org
Message-ID: <950510140124_113836452@aol.com>
Rendered body type: text/plain

When is someone going to upload APRS 6.8c to AOL. Thats the only access I have to the new files, unless I want to wait a few months for them to filter down to the local BBS's.
Jay Netterville KQ4MS@N1GMV.#RTP.NC.USA.NOAM

185. Re: [APRSSIG:1141] Re: Version 68C...WOW!!

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Wed, 10 May 1995 14:48:45 +0000
To: aprssig@tapr.org

Message-ID: <9505101844.AA02768@oriolc.vlsi.COM>
Rendered body type: text/plain

>When is someone going to upload APRS 6.8c to AOL. Thats the only access I
>have to the new files, unless I want to wait a few months for them to filter
>down to the local BBS's.
>Jay Netterville KQ4MS@N1GMV.#RTP.NC.USA.NOAM
If you have AOL you have internet access to ftp.taprr.org and can ftp
software from there.

Bob Baltz *
Chesapeake Region Sales *
Ph:(410) 987- 8777 *
Fax: (410) 987-8777 *
E-mail bob.baltz@ustc.vlsi.com *

186. RE: [APRSSIG:1119] Re: Help not forthcoming

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
Date: Wed, 10 May 1995 13:51:12 -0500 (CDT)
To: aprssig@taprr.org
Message-ID: <950510135112.ce7a@CRPL.CEDAR-RAPIDS.LIB.IA.US>
Rendered body type: text/plain

I think what is being left out of the conversation is the need
to first use the EXTRACT program which is only available on the
USGS CDR0M's. That puts the DLG data in a form useable by the
APRS program.
The Extract program on the CDR0M's has several needed subdirectories
that are needed and MUST follow the same subdirectory naming
convention in order to work. So if you got your dlq files over the net
from USGS you CAN'T do it.
Myself I'll what on Kieth's program that he's working on. Having seen
his work I know it will work well for an idiot like me. :-)

To Keith:
I'll be getting th NOAA benchmark CD's to you soon. I had an extended
hospital stay that interfered.

187. RE: [APRSSIG:1132] BAD MAPS!!! WARNING!!!

From: Tim Smith <TSMITH@fibusa.com>
Date: Wed, 10 May 95 15:04:00 PDT
To: aprssig <aprrsig@taprr.org>
Message-ID: <2FB1353E@ipnovell.fibusa.com>
Rendered body type: text/plain

>>MAPS AFFECTED: SCeast, SCseast, SCneast, TNnorth, NCoBanks, PAnwest,
>> GAneast, and any other maps Ive made since mid April

I'm new to APRS and live about 500 feet from the coastline. I noticed that
when let my GPS report to APRS it put's me quite a ways out into the
water...I thought it was just SA but it's consistant. Now I know why. In a
similar instance when I drive from Providence to New Bedford, MA part of the
trip is over water...gonna have to take my snorkel from now on!

Tim N1BTQ

188. RE: [APRSSIG:1143] Re: Help not forthcoming

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Wed, 10 May 95 12:06:00 cdt
To: aprssig <aprrsig@taprr.org>
Message-ID: <2FB0F0D5@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Does all the software and procedure process work the same with DMA CDR0MS???
Thanks in Advance

Al
AH6LS (Hawaii not California call)
sadowskp@usafcrqs.nellis.af.mil

From: aprssig
To: aprssig
Subject: [APRSSIG:1143] Re: Help not forthcoming
Date: Wednesday, May 10, 1995 2:12PM

I think what is being left out of the conversation is the need
to first use the EXTRACT program which is only available on the
USGS CDR0M's. That puts the DLG data in a form useable by the
APRS program.

The Extract program on the CDROM's has several needed subdirectories that are needed and MUST follow the same subdirectory naming convention in order to work. So if you got your dlg files over the net from USGS you CAN'T do it. Myself I'll wait on Keith's program that he's working on. Having seen his work I know it will work well for an idiot like me. :-)

To Keith:

I'll be getting the NOAA benchmark CD's to you soon. I had an extended hospital stay that interfered.

189. Big Bug i think

From: wnoles@fly.HiWAAY.net
Date: Wed, 10 May 95 15:34:00 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950510153804.wnoles@wnoles.HiWAAY.net>
Rendered body type: text/plain

Bob i think there's a big bug in version 68c unless a command change is not allowing me to use it.

We are having a heavy weather warning at the present and i placed a couple of Tornado warning on the map with direction and speed of movement. But the objects placed on the map ARE NOT MOVING. I waited about 15 minutes and did not see any movement at all. PLEASE check into this as quickly as possible we count on this feature specially at this time of the year!!!.

William Nolle (KE4EER)
wnoles@hiwaay.net
KE4EER@K4BFT.#NOAL.AL.USA.NOAM

190. Disregard My Message

From: wnoles@fly.HiWAAY.net
Date: Wed, 10 May 95 16:20:06 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950510162448.wnoles@wnoles.HiWAAY.net>
Rendered body type: text/plain

Bob (Or anyone else) disregard my message about the bug report. Found out that my BIG FINGERS where a hazard again and i must have changed Dead Reasoning. Sorry but things where really nasty around here for a while with several tornados spotted in the same place where we had many people killed a few years back. Again sorry for the hasty bug report i hope everyone will forgive me Hi.

William Nolle (KE4EER)
wnoles@hiwaay.net
KE4EER@K4BFT.#NOAL.AL.USA.NOAM

191. Re: [APRSSIG:1146] Big Bug i think

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Wed, 10 May 1995 10:06:26 -0500
To: aprssig@tapr.org
Message-ID: <199505102219.RAA13542@home.interaccess.com>
Rendered body type: text/plain

>Bob i think there's a big bug in version 68c unless a command
>change is not allowing me to use it.

>

>We are having a heavy weather warning at the present and i placed
>a couple of Tornado warning on the map with direction and speed
>of movement. But the objects placed on the map ARE NOT MOVING.
>I waited about 15 minutes and did not see any movement at all.
>PLEASE check into this as quickly as possible we count on this
>feature specially at this time of the year!!!.

>

>William Nolle (KE4EER)
>wnoles@hiwaay.net
>KE4EER@K4BFT.#NOAL.AL.USA.NOAM

>

>

>

>

>William,(and Bob)

We used 68C last night here in No Illinois with our heavy WX and it worked fine to DR storm tracks, are you using the space bar to redraw the screen?

If you are maybe your file got corrupted somehow, again it worked fine here on several types of CPU,s.

73
Ed
N9LCI

192. Rainfall problems in APRS

From: ChicagoWx@aol.com
Date: Wed, 10 May 1995 19:13:24 -0400
To: APRSSIG@tapr.org
Message-ID: <950510190801_114192604@aol.com>
Rendered body type: text/plain

Ever since APRS allowed 100th of an inch rain guages to report that amount on the aPRS network, I used it, I have a 100th of an inch rain guage. But people are telling me that its reporting strange amounts ranging from .90 to .02" even when the rain just begins. The P and R values are correct, and at the top of my screen when I do a N command, its showing a strange value for rainfall (in.) in the blue box. It looks like its not recongnizing the 3 digit R&P values vs. the 2 digit (10th inch rain reporters) Maybe Bob, you can figure this one out, cause its not simply taking the value, its multiplying it somehow, cause the readings its sending, or I should say APRS is interpreting from the data is really off. Shouldn't the value that appears in the blue box at the top center when you do a N command be the R value? Well its not.... Hope there is enough info here.
Ron
Running 8.2b

193. Track History

From: ChicagoWx@aol.com
Date: Wed, 10 May 1995 19:43:37 -0400
To: APRSSIG@tapr.org
Message-ID: <950510190759_114192540@aol.com>
Rendered body type: text/plain

Hi,
I figured out the computer locks up when the track history reaches 100%, anmd there is pelnty of room on the hard drive, Is this RAM memory that its using and how can you control this, it usual fills up within 40 hours, and resetting APRS is necessary.

Ron

194. Re: [APRSSIG:1150] Track History

From: janderson@ram.net (Jack Anderson)
Date: Wed, 10 May 95 21:28:04 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0bc7@ram.net>
Rendered body type: text/plain

>Hi,
>I figured out the computer locks up when the track history reaches 100%, anm
>there is pelnty of room on the hard drive, Is this RAM memory that its using
>and how can you control this, it usual fills up within 40 hours, and
>resetting APRS is necessary.
>
>Ron

This sounds a lot like the problem I was having for a while. Check your serial interface to see if it uses high-speed UARTS with FIFO buffer, 16550.

I am running an Ultimeter with APRS and saw pretty much the same problem, though I never correlated it to saving HST files. But the frequency of failure was consistent with what you are describing. I had a two port serial card with 16450 UARTS and I picked up a dual port 16550 UART equipped serial card. I haven't had a single crash since I installed it. APRS runs for weeks at a time, and only comes down when I bring it down.

If you are using a serial card with the 16450 UARTS, it's quite possible that the com ports are being overrun when APRS has to perform disk writes to save the HST file.

Jack

195. Re: [APRSSIG:1146] Big Bug i think

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Wed, 10 May 1995 21:31:30 +0100 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950510212854.5103A-100000@pinegov>
Rendered body type: text/plain

On Wed, 10 May 1995 wnolle@fly.HiWAAY.net wrote:

> Bob i think there's a big bug in version 68c unless a command
> change is not allowing me to use it.
>
> We are having a heavy weather warning at the present and i placed
> a couple of Tornado warning on the map with direction and speed
> of movement. But the objects placed on the map ARE NOT MOVING.
> I waited about 15 minutes and did not see any movement at all.
> PLEASE check into this as quikly as possible we count on this
> feature specially at this time of the year!!!.

>
> William Nolle (KE4EER)
> wnolle@hiwaay.net
> KE4EER@K4BFT.#NOAL.AL.USA.NOAM

>
>
>
Nope...not a bug, I had the same problem until I realized that later
versions of APRS have UPLINK and DEAD RECKONING in the off state at
initial startup. Change them to on and then save your cfig*.apr file and
they will be in your preferred position at next usage.

73 de Kevin KD4UYR
kheyboer@co.pinellas.fl.us

196. [aprssig:1110] re: houston blt-

From: mike.manes@filebank.com
Date: Wed, 10 May 95 20:56:09
To: aprssig@tapr.org
Message-ID: <9505102056.0TESU00@filebank.com>
Rendered body type: text/plain

Hi aprssig,
thanks for the tip re the APRS coding stuff. I guess we're doing
it right at E0SS, even though we don't use the -11 SID. Still
seems to work fine.
Any tips on using the KPC-3 v6.0 for both aprs beacons and full
ARQ connects for telemetry downloads from an onboard uP? Seems
the single serial port on the tnc is dedicated to the GPS when
that mode's running.
73, Mike Manes W5VSI, E0SS

197. APRS WX suggestions

From: Jeff Ward <jeff@huey.met.fsu.edu>
Date: Thu, 11 May 95 01:16:24 EDT
To: aprssig@tapr.org
Message-ID: <9505110516.AA10149@huey.met.fsu.edu>
Rendered body type: text/plain

Hi Bob:

I read in the docs that you could define new symbol sets. Any possibility
of a set containing standard National Weather Service wx symbols? The
cartoon-type symbols presently in use are ok, but they're a bit too big for
our SKYWARN applications. Also, severe weather watch and warning boxes are
usually drawn as such. Any chance you could modify the +/-line
option so that actual boxes are drawn (based on the same criteria, e.g. a
watch is in effect X miles either side of a line from point A to point B)?

By the way, thanks for adding the auto hbaud/vhf parameter setting for the
pk232...seems to work ok.

Jeff Ward, N4TRY
SKYWARN Coordinator, FL Panhandle
jeff@huey.met.fsu.edu

198. Re: [APRSSIG:1149] Rainfall problems in APRS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 11 May 1995 09:31:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950511093053.22976C@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 10 May 1995 ChicagoWx@aol.com wrote:

> Ever since APRS allowed 100th of an inch rain guages to report that amount on
> the aPRS network, I used it, I have a 100th of an inch rain guage. But
> people are telling me that its reporting strange amounts ranging from .90 to
> .02" even when the rain just begins. The P and R values are correct, and at

APRS REPLY: Hummh, ill check. Maybe I overlooked something in the
sliding 1 hour memory... Thanks!

199. Re: [APRSSIG:1153] [aprssig:1110] re: houston blt-

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 11 May 1995 09:36:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950511093524.22976F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 10 May 1995 mike.manes@filebank.com wrote:

> Any tips on using the KPC-3 v6.0 for both aprs beacons and full
> ARQ connects for telemetry downloads from an onboard uP? Seems
> the single serial port on the tnc is dedicated to the GPS when
> that mode's runnig.

APR REPLY: I havent explored this, but I assume not. Once the KPC-3 or
any of the other TNC's goes into GPS mode, it ignores everything else...

200. Re: [APRSSIG:1152] Re: Big Bug i think

From: JoeB <kavman@gate.net>
Date: Thu, 11 May 1995 10:02:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.A32.3.91.950511100024.43838B-100000@seminole.gate.net>
Rendered body type: text/plain

On Wed, 10 May 1995, Kevin Heyboer wrote:

> Nope...not a bug, I had the same problem until I realized that later
> versions of APRS have UPLINK and DEAD RECKONING in the off state at
> initial startup. Change them to on and then save your cfig*.apr file and
> they will be in your preferred position at next usage.

I know the answer to my question is buried in the docs someplace, but
will someone tell me how to turn UPLINK and DEAD RECONING "ON"? I've
looked at the "help" and "new user" screen (I've been a registered user
since version 3.x...but haven't run it in a while) but I can't figure out
how to do this.

73... Joe

201. FIXED MAPS!

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 11 May 1995 10:05:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950511094812.23401A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Yesterday I sent out a panic message, becasue I just discovered that the
MAKEMAPS.bas program (written by someone else) was generating maps
significantly stretched in the horizontal plane. Errors as much as 10 miles
were the result at the map edge.

FORTUNATELY, (big sigh of relief), I found the error. In line 65 and 66 of
MAKEMAPS.bas there are two statements that assign the X and Y values for
a point. They should BOTH be multiplied by the variable ppdy. The error
is that line 65 is multiplied by ppdx. Change that ppdx to ppdy and the
program is fixed.

NOW FIXING THE DAMAGE: After a page of transformations in working the
error backwards, I came up with a simple two line addition that you can
TEMPORARILY make to MAPFIX to let it change all the X values to the
correct offset for any maps that you may have already made with MAKEMAPS.

Insert in line 558 of MAPFIX68: FixFactor=1.37143 * cos(3.1416*LatCen/180)

Insert on end of line 560: : x%(i) = x%(i)/FixFactor

Run MAPFIX68 and load the bad map, then re-save it. Thats it! be sure NOT

to keep these two lines in your copy of MAPFIX after you have fixed all the maps.

THE MAPS THAT I HAVE MADE THAT WERE CORRUPTED ARE:

SCeast, SCseast, SCneast, NCObanks, GAneast, PAnwest, KSlwrnce, DElewes

I will be posting a file called FIXDMAPS.zip which will have the fixed MAKEMAPS program and all of these maps will be fixed.

FOR those of you that have the 2,000,000 CD ROM, this MAKEMAPS is a relatively painless way to generate 40 mile maps. But remember, that the data on the 2,000,000 CD ROM is only the major highways. Zoom into my TNnorth.map to see the typical data contained in such a map.

202. Re: [APRSSIG:1154] APRS WX suggestions

From: Jeff Ward <jward@marlin.gulf.net>
Date: Thu, 11 May 1995 09:12:33 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.90.950511090904.23874A-100000@marlin.gulf.net>
Rendered body type: text/plain

On Thu, 11 May 1995, Robert Bruninga wrote:

> Send me a paper sketch of the symbols, and I will consider it.
>

Wilco, thanks.

> Since APRS has a 100 mile LENGTH limitation to the watch box line, (and a
> 300 mile width), I thought I would leave off the ends so that multiple
> lines could be stcuk together to extend the length of the box.
>
> THought the multiple boxes would be more confusing than a box with no ends...
> YOu opinion? How often are boxes LONGER than 100 miles?
>
>

Well, I'm a Meteorologist so I'm used to seeing multiple boxes. Maybe some other folks will offer their opinions...you may be right...maps might get too cluttered...hadn't thought of that. I'll mail you the wx symbols, thanks es thanks for all the work.

Jeff Ward
SKYWARN Coordinator, FL Panhandle

203. Re: [APRSSIG:1154] APRS WX suggestions

From: Jeff Ward <jward@marlin.gulf.net>
Date: Thu, 11 May 1995 09:20:59 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.90.950511091534.23874B-100000@marlin.gulf.net>
Rendered body type: text/plain

On Thu, 11 May 1995, Robert Bruninga wrote:

> How often are boxes LONGER than 100 miles?
>
>

Forgot to respond to this part...hmmm, never thought about it really, seems like I've seen tornado watch boxes extend from the Panhandle of Florida into Central Georgia, though. Might be nice to have the capability to have long ones, just in case.

Jeff Ward
SKYWARN Coordinator, FL Panhandle

204. Help with 8088 laptop

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Thu, 11 May 1995 08:26:40 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950511081632.13887B-100000@napalm.ecst.csuchico.edu>
Rendered body type: text/plain

Hello out there I need help. I downloaded the APRSG.ZIP hoping that I could use it with a Zenith laptop, 8088. It keeps asking me where are the Maps or "can not find the Maps." How do I set up the APRS program on

a 720k disk so that it will run on the 8088. This machine has no hard drive and only two 3.5 720k floppies. It would be nice if you could give the program a path to find the map files say if they were located in the B drive on a disk. That way a person could utilize both floppy drives.

Someone please drop me a note and tell me which files I need and in what subdirectories these files belong in, all on a 720k disk. In other words how the heck do I setup the disk so the program will run. Thank you in advance.

Brad - WA6ZKM

205. Re: [APRSSIG:1153] [aprssig:1110] re: houston blt-

From: ALLER@mail.syntron.com
Date: Thu, 11 May 95 11:56:21 CST
To: aprssig@tapr.org
Message-ID: <9504118002.AA800218581@MAIL.SYNTRON.COM>
Rendered body type: text/plain

> Mike W5VSI wrote:

>Any tips on using the KPC-3 v6.0 for both aprs beacons and full ARQ connects
>for telemetry downloads from an onboard uP? Seems the single serial port on
> the tnc is dedicated to the GPS when that mode's running.

If you have another computer on board you could read the GPS NMEA sentences in and drive the TNC directly from another serial port on the computer. I was planning to do it in this manner for our BLT-10 flight so telemetry info could be included.

206. QUESTION ABT MAPMAKER.BAS

From: wnolle@fly.HiWAAY.net
Date: Thu, 11 May 95 12:10:04 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950511121231.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

Will the new fixed Mapmaker.bas work also with the 1,000.000
CD-Rom or only with the 2,000.000, would be great if it does?.
Please let me know....

William Nolle (KE4EER)
wnolle@hiwaay.net
KE4EER@K4BFT.#NOAL.AL.USA.NOAM

207. KPC-3 GPS problem?

From: ALLER@mail.syntron.com
Date: Thu, 11 May 95 12:43:10 CST
To: aprssig@tapr.org
Message-ID: <9504118002.AA800221390@MAIL.SYNTRON.COM>
Rendered body type: text/plain

I've noticed what may be a problem with the KPC-3/GPS mode.

I'm sending three NMEA sentences from a Motorola PVT6 every 5 seconds. The KPC-3 has been set to output these sentences every 20 seconds. In addition, the KPC-3 is set to send CWID once per minute. I'm also digi-peating a set of status packets thru the KPC-3 from another system immediately after I receive the GPS packets.

As the system runs it appears that on a cycle of about 5 minutes the CWID will sound slightly mistimed and the first of my two digi-peated packets will not be repeated. Shortly thereafter normal operation will resume for another 5 minutes or so.

I'm thinking that maybe when the CWID and/or digi-peated packets occur at the same time as the GPS input, the KPC-3 processor may be getting bogged down.

Does anyone have any thoughts on the matter?

Richard, w5sxd@amsat.org

208. Re: [APRSSIG:1164] KPC-3 GPS problem?

From: janderson@ram.net (Jack Anderson)
Date: Thu, 11 May 95 14:04:16 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0bcb@ram.net>
Rendered body type: text/plain

> I'm thinking that maybe when the CWID and/or digi-peated packets
> occur at the same time as the GPS input, the KPC-3 processor may

> be getting bogged down.
> Does anyone have any thoughts on the matter?
> Richard, w5sxd@amsat.org

My recommendation would be to disable CWID altogether, since it is not required for packet station identification in the U.S. This feature is included to comply with the identification requirements in other countries. This may not entirely correct your problem, or fix a bug if one exists, but it could help. Using CWID on packet here in the States is generally frowned upon, since it has the effect of unnecessarily cluttering the frequency.

209. Re: [APRSSIG:1161] Help with 8088 laptop

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 11 May 1995 14:17:47 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950511141023.26237A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 11 May 1995, Bradley Lee Ambers wrote:

> Hello out there I need help. I downloaded the APRSG.ZIP hoping that I could
> use it with a Zenith laptop, 8088. It keeps asking me where are the
> Maps or "can not find the Maps." How do I set up the APRS program on
> a 720k disk so that it will run on the 8088. This machine has no

APR REPLY: The minimum system must have the following files and directories:

APRS APRSxx.EXE
 MAPLIST.USA

 BAKS (dir)
 LOGS (dir)
 HSTS (dir)
 MAPS (dir) USA.map plus any others you might need
 README (dir)
 SYSTEM (dir) InitTAPR.TNC (or InitAEA.TNC)

You must have the MAPLIST.USA and USA.map to start with. You may then have any other MAPLISTS and MAPS. Be sure to eliminate any MAPS in the MAPLIST that you do not have in your directory, to save error beeps. There may need to be some of the other .sys files, I havent exhaustively tested to see if APRS will crash without all of them...

210. HF digital auto control approved!

From: Bob_Fairbairn-C12509@email.mot.com
Date: 11 May 95 13:12:41 -0600
To: aprssig@tapr.org
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>
Rendered body type: text/plain

HF auto-control digital approved

The FCC has released its Report and Order in PR Docket 94-59, concerning HF digital communications in the Amateur Radio Service.

The new rules, effective July 1, 1995, permit automatically controlled HF RTTY and data stations to communicate with one another in the following segments: 3.620 to 3.635; 7.100 to 7.105; 10.140 to 10.150; 14.095 to 14.0995; 14.1005 to 14.112; 18.105 to 18.110; 21.090 to 21.100; 24.925 to 24.930; and 28.120 to 28.189 MHz.

The new rules also permit manually controlled stations to initiate communication with automatically controlled HF RTTY and data stations. In this case the automatically controlled station may use any frequency authorized for such emissions, but may occupy a bandwidth of no more than 500 Hz.

Automatic control must cease upon notification by an FCC engineer in charge that the station is transmitting improperly or causing interference to other stations.

The FCC said it recognized the concerns of those who opposed the proposal on grounds that such operation could interfere with other amateurs, but that it believed the provisions adopted would be adequate to minimize such interference.

The FCC's notice of proposed rule making on this subject was released in June 1994, the Commission saying that its proposal was in response to petitions filed by the ARRL and the American Digital Radio Society (ADRS).

The FCC said that the propagation characteristics of the HF bands allow for long distance communications, presenting

"operating demands not encountered" on the VHF and higher bands. For that reason, the FCC said, it had heretofore been necessary for a human operator to "monitor the activity on the channel being used," making automatic control unfeasible.

In 1986 the Commission had authorized automatic control of amateur digital stations on the VHF and higher bands. At that time some 50 amateurs began a study of HF automatic control under FCC Special Temporary Authority, conducted by the ARRL. The ARRL's petition was then based on the results of that study. The ADRS's petition contained an additional recommendation from amateur operators who have been experimenting for several decades with digital communication on the HF bands (a recommendation the ARRL supported).

Here are the new rules, effective July 1, 1995:

97.109 Station control.

(d) When a station is being automatically controlled, the control operator need not be at the control point. Only stations specifically designated elsewhere in this Part may be automatically controlled. Automatic control must cease upon notification by an EIC [an FCC engineer in charge] that the station is transmitting improperly or causing harmful interference to other stations. Automatic control must not be resumed without prior approval of the EIC.

(e) No station may be automatically controlled while transmitting third party communications, except a station transmitting a RTTY or data emission. All messages that are retransmitted must originate at a station that is being locally or remotely controlled.

3. A new Section 97.221 is added to Subpart C to read as follows:

97.221 Automatically controlled digital station.

(a) This rule section does not apply to an auxiliary station, a beacon station, a repeater station, an earth station, a space station, or a space telecommand station.

(b) A station may be automatically controlled while transmitting a RTTY or data emission on the 6 [meter] or shorter wavelength bands and on [see HF segments, above].

(c) A station may be automatically controlled while transmitting a RTTY or data emission on any other frequency authorized for such emission types provided that:

(1) The station is responding to interrogation by a station under local or remote control; and

(2) No transmission from the automatically controlled station occupies a bandwidth of more than 500 Hz.

73 KF90A

211. Length of weather watch box

From: Jeff Ward <jward@marlin.gulf.net>
Date: Thu, 11 May 1995 13:25:12 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.90.950511132131.29731A-100000@marlin.gulf.net>
Rendered body type: text/plain

Hi Bob,

I can now verify your question as to whether watch boxes are longer than 100 miles. We're under one now from near Pensacola (Extreme West Florida) to near Brunswick, GA (Atlantic Coast)...probably close to 500 miles.

Jeff Ward
SKYWARN Coordinator, FL Panhandle

212. Re: [APRSSIG:1163] QUESTION ABT MAPMAKER.BAS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 11 May 1995 14:25:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950511142443.26237D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 11 May 1995 wnolle@fly.HiWAAY.net wrote:

> Will the new fixed Mapmaker.bas work also with the 1,000.000
> CD-Rom or only with the 2,000.000, would be great if it does?..
> Please let me know....

APR REPLY: NO. The originator of that program may take a crack at a 100,000 version, but no time soon. It took him a year to get that one to

me...

213. Fixed MAPS and ver 68d

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 11 May 1995 14:39:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950511142907.26237F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well, in my last message I said that I would send out the fixed MAKEMAPS and the fixed maps in a file called FIXDMAPS.ZIP. Well, when I sat down to upload it, I realized that I had to KILL all of the existing upgrade files and APRS68c distribution files, since they had copies of the flawed maps and flawed MAKEMAPS program. So I built everything up from scratch again and the result is 68d.

There were only minor changes to the EXE:

- * Fixed 100ths rain gage readings at top of screen
- * Improved MAC symbol
- * Minor tweak to F9 centering function so that the USA map and not the WORLD map is drawn when there are stations in Calif and East coast at same time
- * Minor change to error handling routine so that you do NOT get the infinite BEEPS LOCK UP if you start APRS without the SYSTEM and MAP support files.

THE BIG CHANGE is the new copy of the MAKEMAPS program. Also included are EXE versions of a new MAPFIX and MAKEMAPS. And of course, corrected copies of the 8 affected maps. SCeast, SCseast, SCneast, NCobanks, PANwest, KSLwrnce, DElewes, GAneast.map

Sorry for the new version, but I had to kill that bad copy of MAKEMAPS. Even if you do NOT upgrade, kill MAKEMAPS.bas and EXE and those MAPS affected.

214. Re: [APRSSIG:1066] Help with Tiny2 to Ultimeter

From: gwyn@paccomm.com (Gwyn Reedy, WIBEL)
Date: Thu, 11 May 95 09:34:26 UTC
To: aprssig@tapr.org
Message-ID: <3527@paccomm.com>
Rendered body type: text/plain

John

Sorry for the delayed answer. Am wading through nearly 400 messages that built up while we were at Dayton. Didn't give any priority to SIG messages assuming they were non-personal.

The baud rates on the TINY-2 are set by shorting block jumpers (for TNC-2 compatibility). Remove the front panel of the TINY-2 and look at the left side of the opening. The Terminal jumpers are nearest the board edge, and the radio baud rate jumpers are inboard.

The Baud command is not included in the TINY-2 firmware since it would not be functional, thus the 'no such command' type of response. The command is in the instruction manual (with a caveat that it may not apply to all models) to cover the HandiPacket, PicoPacket, TNC-320, PC-320 and other 8530 (not SIO) based controllers.

If you need any additional assistance, please contact us directly.

73,
Gwyn

Gwyn Reedy, WIBEL gwyn@paccomm.com WIBEL@amsat.org
+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

215. Re: EROS Maps

From: DKAPLAN@netins.net (David Kaplan)
Date: Thu, 11 May 1995 14:02:01 -0500
To: aprssig@tapr.org
Message-ID: <199505111902.0AA26718@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

Bob, did you ever get a chance to look at the maps at the EROS data center. They are free for the download from the Inet. Lots of different maps there. I-Net address is <http://sun1.cr.usgs.gov/>
73, Dave WB0WNX/NE0272

216. Rochester waypoint?

From: jgarrett@world.std.com (John Garrett)
Date: Thu, 11 May 1995 14:33:45 -0400
To: aprssig@tapr.org
Message-ID: <9YbilmPA4-wH065yn@World.std.com>
Rendered body type: text/plain

Does anybody have a waypoint for the Rochester NH fairgrounds, where the Hoss Traders Flea market is this weekend? Sorry to take up the bandwidth, but this seemed like the best place to inquire!
John
WN9T

217. Compuadd 325TX?

From: Tim Smith <TSMITH@fibusa.com>
Date: Thu, 11 May 95 15:08:00 PDT
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2FB28555@ipnovell.fibusa.com>
Rendered body type: text/plain

Anyone running APRS mobile with a Computrash...errr I mean Compuadd 325TX? If so how are you powering it for 12vdc operation? The machines are ok, cheap and run APRS great....just that dreaded high power 386SX chip they use...only one hour battery life! They used to make a DC cord for it but they closed their stores (bad sign)...only other solution is a \$75 inverter....any ideas?

Tim N1BTQ
Mattapoisett, MA
tsmith@fibusa.com

218. Homebrew GPS Ae

From: paul@paccomm.com
Date: Thu, 11 May 95 15:09:23 UTC
To: aprssig@tapr.org
Message-ID: <3553@paccomm.com>
Rendered body type: text/plain

I have a design and the design equations for a GPS tach antenna which can be made on FR-4 board. the only problem is that the tolerancing is VERY tight. The dielectric constant doesn't vary too badly on FR-4, but if the other dimensions chnage by much more than 0.5mm in X or Y then the antenna would be off frequency. To give you some idea of the nature of the problem, the return loss curve you see on an HP8510 network analyzer for such a patch is typically only about 80-100MHz wide for acceptable values <-10dB. This is why you'll see small tuning stubs about 0.5mm in length on the outside edges of the patch on most antennas. Each antenna is placed on an ANA and tuned to the right frequency. You are dealing with an extremely high Q circuit. Tuning takes seconds, but if you haven't got an ANA or swept gain system, it'll be a nightmare to tune them. PacComm has looked at doing this for in-house purposes, but without the right test gear it's not really on.
Regards, Paul.

Paul Evans, W4/G4BKI paul@paccomm.com
+1 (813) 874-2980 Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm.
I don't surf the internet, I SAIL IT!
Captain of S/V "Spindrift" (Catalina 36), Dunedin, FL.
PacComm Packet Radio Systems, Inc., 4413 N. Hesperides St., Tampa, FL 33614-7618

219. Balloon Data

From: paul@paccomm.com
Date: Thu, 11 May 95 15:40:18 UTC
To: aprssig@tapr.org
Message-ID: <3560@paccomm.com>
Rendered body type: text/plain

The question of using GPS data AND uploading/downloading data from balloons came up.
When our PicoPacket becomes available that is EXACTLY what it will do.

It'll function as a full TNC PLUS a full time GPS port too.....
and all in a much smaller package than other TNCs.
The Pico is about to go for FCC testing.... so stay tuned.
Bye. Paul.

Paul Evans, W4/G4BKI paul@paccomm.com
+1 (813) 874-2980 Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm.
I don't surf the internet, I SAIL IT!
Captain of S/V "Spindrift" (Catalina 36), Dunedin, FL.
PacComm Packet Radio Systems, Inc., 4413 N. Hesperides St., Tampa, FL 33614-7618

220. Interesting HST files?

From: Tim Smith <TSMITH@fibusa.com>
Date: Thu, 11 May 95 17:37:00 PDT
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2FB2A660@ipnovell.fibusa.com>
Rendered body type: text/plain

I may be giving a demo to a class of 6th graders next week on GSP and APRS.
Does anyone have any interesting HST files they would like to offer? Feel
free to uuencode them and attach them to mail to tsmith@fibusa.com.

Thanks,

Tim

221. Re: [APRSSIG:1159] Re: APRS WX suggestions

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Thu, 11 May 1995 17:45:47 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950511173935.8033B-100000@pinegov>
Rendered body type: text/plain

On Thu, 11 May 1995, Jeff Ward wrote:

>
>
> On Thu, 11 May 1995, Robert Bruninga wrote:
>
> > Send me a paper sketch of the symbols, and I will consider it.
> >
>
> Wilco, thanks.
>
>
> > Since APRS has a 100 mile LENGTH limitation to the watch box line, (and a
> > 300 mile width), I thought I would leave off the ends so that multiple
> > lines could be stuck together to extend the length of the box.
> >
> > THought the multiple boxes would be more confusing than a box with no ends...
> > YOu opinion? How often are boxes LONGER than 100 miles?
> >
> >
> Well, I'm a Meteorologist so I'm used to seeing multiple boxes. Maybe some
> other folks will offer their opinions...you may be right...maps might get
> too cluttered...hadn't thought of that. I'll mail you the wx symbols,
> thanks es thanks for all the work.
>
> Jeff Ward
> SKYWARN Coordinator, FL Panhandle
>
>

Watch boxes are very often more than 100 miles wide...and they are
parallelograms (sp?) not rectangles. The are defined by a line between
two points on a map and the area on either side of a line....example,
today's Severe Thunderstorm Watch over northern and central Florida is
along and 60 statute miles either side of a line from 45 miles S of Cross
City, Florida (CTY) to 25 miles SE of Daytona Beach, Florida (DAB). That
makes the length of the parallelogram about 150 miles and the width 120
miles.

I like the weather symbol idea too...but it might be confusing to the
non-weather types ie the symbol for showers is a triangle over a
dot...might be confused for a tornado....

What I do is put the thunderhead on the map with direction and speed but
I use the NWS terminology to describe it...ie TRW+ for heavy

thundershower...TRWXX for severe thunderstorm...TVS for tornado....etc.

73 de Kevin, KD4UYR, Skywarn Coordinator for Pinellas County, Florida...
kheyboer@co.pinellas.fl.us

222. Re: [APRSSIG:1168] Length of ...

From: N9RLR@aol.com
Date: Thu, 11 May 1995 17:49:20 -0400
To: aprssig@tapr.org
Message-ID: <950511174916_115406114@aol.com>
Rendered body type: text/plain

I have spoken to several NWS personnel and they too find the watch box small, even for a midwest situation in Illinois,etc.

A box with 200milesX300miles is fine around here but others need to speak up for their situations, such Florida and the shape of it.

By the way could someone give Internet Address to upload 6.8c. I looked in different FTP sits and nothing. The address would suffice.
Thanks.

223. Re: APRS on 720 disk

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Thu, 11 May 1995 15:26:21 -0700 (PDT)
To: Gordon Fuller <gfuller@netcom.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950511151457.2400B-100000@napalm.ecst.csuchico.edu>
Rendered body type: text/plain

I found the problem Gordon and am now running APRSG on the laptop. When you makeup your disk you have to create a directory named APRS (this can not be a root directory),and subdirectories to it named, maps, hsts, bak, system and etc. you must copy over the system files to that directory from your 68c and then any maps to the map subdirectory. You also have to rename your maplist.ca to maplist.usa like you mentioned but I find that the maplist.usa works just fine and does call up all the Calif maps.

Thanks again and the new APRSG version is cut down by 23k it does help.

I sure wish Bob would make it so that you could use both floppy drives on the old laptops that did not have a hard drive this would give us twice as much room on the system. Say when the system first boots up and you enter all your info in, callsign, tnc type, ports and etc. it could come up and ask you the path to your map files, say for instance a path of b:\maps. This way you could run your program on the A drive and then have your maps on the B drive. Maybe I will mention it to him. 73's and tks again

Brad - WA6ZKM/NNN0TVG/NNN0ASE FIVE, NAVMARCORPMARS REGION FIVE

224. Re: [APRSSIG:1139] The following,

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Thu, 11 May 1995 19:13:30 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505120013.TAA15199@solar.cs.tamu.edu>
Rendered body type: text/plain

eashway@VNET.IBM.COM sez:

>

> >I wonder how many times Keith has to send a bulletin to this SIG about his
> >MacMAPMAKER program.

> >It will be available fairly soon. It WILL make maps for both the Mac version
> >of APRS called MacAPRS and for the IBM or rather MS-DOS version called APRS.

>

> It would be OK, Bill, to make reference to either Microsoft or IBM, in that

> both write & sell what you are referring to here as 'DOS'.

>

> Actually it would probably be more politically correct these days to say:

> "It will be available fairly soon. It will make maps for both the Mac version

> of APRS, called MacAPRS, and for Intel based machines running DOS, called

> APRS."

It's too easy!

Actually, you need to announce the anticipated release of the press release announcing the impending release of teh prerelease, for sale beta of the program. Then, push back actual releast a couple of months every week, while

telling us how good it is.

Apologies to Keith.

73, gerry

225. Re: [APRSSIG:1170] Fixed MAPS and ver 68d

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 11 May 1995 19:39:15 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505120039.TAA15439@solar.cs.tamu.edu>
Rendered body type: text/plain

Robert Bruninga sez:

>
> * Minor change to error handling routine so that you do NOT get the
> infinite BEEPS LOCK UP if you start APRS without the SYSTEM and
> MAP support files.

Thankyouthankyouthankyouthankyou...

73, gerry

226. Re: [APRSSIG:1164] KPC-3 GPS problem?

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Thu, 11 May 1995 18:19:24 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950511181751.23072A-100000@napalm.ecst.csuchico.edu>
Rendered body type: text/plain

Your killing the poor thing it was not designed to handle that much input that fast. You wish to do a 5 ton dump truck job buy a dump truck not a pickup...just a joke by the way but there is some truth in the matter..

Brad

PS good luck but your thoughts I feel you will find is very true it is the processor being booged down.

227. Re: [APRSSIG:1166] Re: Help with 8088 laptop

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Thu, 11 May 1995 18:39:57 -0700 (PDT)
To: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950511182627.23072C-100000@napalm.ecst.csuchico.edu>
Rendered body type: text/plain

Thank you Bob for the information. I have another post on this thread regarding an idea for the APRSG program which if possible may give those of use with the old 8088 laptops more to work with. My suggestion would be to add a prompt at the beginning of the information section when a person first enters his/her information regarding the system they are using. This prompt would ask for a path in which the maps maybe found. In other words it would give the user the ability to use both floppy drive A and B. Lets say you have a disk with the APRS program on it in drive A, when the program prompts you for location of the maps you could type, "B:\maps" or hit enter for a default drive and director this information would be saveable for as all other info is for the registered users. This would give us poor laptop users, and I do mean poor, the capability to use both of the floppy drives and giving us more disk space to add maps or other information as it becomes available or as needed.

I don't know if it is possible Bob, I am not a programmer just someone with an idea. Thank you for everything you are doing, fantastic job keep up the great work, I wish there was some way I could help. 73's

Brad - WA6ZKM/NNN0TVG/NNN0ASE FIVE NAVMARCORPMARS REGION FIVE

228. FW: [APRSSIG:1173] Rochester waypoint?

From: Tim Smith <TSMITH@fibusa.com>
Date: Fri, 12 May 95 00:30:00 PDT
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2FB3070A@ipnovell.fibusa.com>
Rendered body type: text/plain

>Does anybody have a waypoint for the Rochester NH fairgrounds, where the
>Hoss Traders Flea market is this weekend? Sorry to take up the
>bandwidth, but this seemed like the best place to inquire!

I don't have anything that shows the fairground...supposed to be near exit
13 of route 16...I got the following from STS Plus, a satellite tracking
program...probably town center location:

"Rochester, NH",-70.975,43.3033,0

If you get anything more exact please let me know.

Thanks,

Tim N1BTQ
Mattapoisett, MA
tsmith@fibusa.com

229. KPC-3 Questions continue

From: Emmet2@aol.com
Date: Fri, 12 May 1995 02:06:54 -0400
To: aprssig@tapr.org
Message-ID: <950512010702_115964966@aol.com>
Rendered body type: text/plain

I also have a KPC-3 (v5.1). I want to upgrade to v6.0 so I can do the GPS
thing too. But I have some questions.

How does the GPS connect? Do you make a 'Y' splitter between the radio and
the TNC? I would like more details as to how this works. I have a
Powerbook, which only has one serial port, so I want to ensure I understand
how this is going to work before I proceed with upgrading.

BTW, I have the Garmin 40, I bought the antenna and data cable. The data
cable has a four pin connector, but only 3 wires. I have no doubt about how
to connect it to the computer. I wonder how to externally power the GPS
though. Does it take power from the computer? Can it take power from the
computer? Is there a separate power cable? Can they both be used at the
same time?

Chip Griffin - President of Thames River Apple Users Group
SysOp of The Quarry BBS (203-889-6427)

Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
N1MIE@N10KK.CT.USA | 1:320/301 (fidonet)

230. Re: [APRSSIG:1161] Help with 8088 laptop

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)
Date: Fri, 12 May 95 10:03:21 MET DST
To: aprssig@tapr.org
Message-ID: <9505120803.AA00783@sunrise.e-technik.uni-ulm.de>
Rendered body type: text/plain

Brad - WA6ZKM -wrote:

>
> It would be nice if you
> could give the program a path to find the map files say if they
> were located in the B drive on a disk. That way a person could
> utilize both floppy drives.
>

I'd like to second that. I have an old Tandy Laptop where, using their
DOS version, you can easily configure 64k above the 640k RAM as a RAM drive.
Small maps could probably go there.

73,
Hermann
DF2DR

--
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de
Dept. of Electron Devices and Circuits |
University of Ulm, | office: +49 731 502-6152
D-89069 Ulm, Germany | FAX: +49 731 502-6155

Help fight leukemia - we're closing in on a killer!

231. Re: [APRSSIG:1186] KPC-3 Questions continue

From: rwf@mindspring.com (rwf)
Date: Fri, 12 May 1995 08:01:04 -0500
To: aprssig@tapr.org
Message-ID: <199505121157.HAA20374@dylan.mindspring.com>
Rendered body type: text/plain

>I also have a KPC-3 (v5.1). I want to upgrade to v6.0 so I can do the GPS
>thing too. But I have some questions.
>
>How does the GPS connect? Do you make a 'Y' splitter between the radio and
>the TNC? I would like more details as to how this works. I have a
>Powerbook, which only has one serial port, so I want to ensure I understand
>how this is going to work before I proceed with upgrading.

The GPS mode in 6.0 of the KPC firmware converts the TNC to a dedicated tracker. It takes GPS data and transmits the selected info out thru the attached radio. In GPS mode, the TNC does not do normal terminal operated functions. It is sorta like being in KISS mode. A certain procedure places the TNC back into regular packet mode.

You can remotely "log in" th the TNC from another TNC with a password. Once logged in, you can change the TNCs parameters. Probably very useful if the TNC is sitting on top of a mountain (or hill, as we have here in GA) or a bus.

The TNC to GPS cable used would not be a Y cable, since the computer is not used in this mode.

To use the GPS and a PC and APRS together, you would need two comm ports (or construct or build the Hardware Serial Port Adapter that Bob describes in the GPS Readme file). This allows APRS controlled switching between the GPS and TNC on 1 comm port. Works great, I might add!

>
>BTW, I have the Garmin 40, I bought the antenna and data cable. The data
>cable has a four pin connector, but only 3 wires. I have no doubt about how
>to connect it to the computer. I wonder how to externally power the GPS
>though. Does it take power from the computer? Can it take power from the
>computer? Is there a separate power cable? Can they both be used at the
>same time?

One of the things they stripped out of the 40 when it was cloned from the 45 was the 5-40 volt power input capability. I understand there is a cigarette lighter cord or some type of Garmin cord that you are supposed to use. Never thought about robbing computer power- my laptop has little enough power as it is ! :)

Hope these answers help, Chip

Ralph Fowler, N4NEQ
Atlanta, GA rwf@mindspring.com

232. Re: [APRSSIG:1174] Compuadd 325TX?

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Fri, 12 May 1995 08:49:27 +0000
To: aprssig@tapr.org
Message-ID: <9505121245.AA00670@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

Damark and similar stores have 300 watt inveroers for \$39.95. I am using one on a color notebook with non-12V DC pwr rwquirements. Works fine only issue is 110V supply supplied with laptop is a little noisy.

Bob Baltz	*
Chesapeake Region Sales	*
Ph:(410) 987- 8777	*
Fax: (410) 987-8777	*
E-mail bob.baltz@ustc.vlsi.com	*

233. Re: Help with 8088 laptop

From: jlf@achilles.mitre.org (James L. Fisher x6117)
Date: Fri, 12 May 95 09:10:58 EDT
To: aprssig@tapr.org
Message-ID: <9505121310.AA02296@achilles.mitre.org>
Rendered body type: text/plain

In APRSSIG:1184, Brad WA6KZM wrote:

"... This prompt would ask for a path in which the maps maybe found. In other words it would give the user the ability to use both floppy drive A and

B. ... This would give us poor laptop users ... the capability to use both of the floppy drives and giving us more disk space to add maps or other information as it becomes available or as needed. ..."

As a temporary fix, could you use the JOIN command in DOS to do this?
Something like (assuming APRSG.EXE is on drive A and maps on drive B):
JOIN B: A:\APRS\MAPS

(Does your laptop's version of DOS have the JOIN command?)

--jim // WB3LFB@W3INK.MD.USA.NOAM

JamesL.FisherPhD//The MITRE Corp//Center for Info Sys//McLean VA//jlf@mitre.org
703-883-6117

234. Re: [APRSSIG:1184] Re: Help with 8088 laptop

From: Steve Schwarm <schwarm@spectre.mitre.org>
Date: Fri, 12 May 1995 09:18:58 -0400
To: aprssig@tapr.org
Message-ID: <199505121318.JAA06490@spectre.mitre.org>
Rendered body type: text/plain

What I do with my old laptop is use Stacker. I use it on my main machine all the time so it is real easy to build a stacked floppy with Stacker Anywhere on it. This give me a 1 meg floppy. I put the system and my terminal program (procomm+) on the A drive and on the stackered B drive I put the whole APRS. After pruning down the map list there is lots of room left from hst and log files.

Stephen(Steve) Schwarm
Principal
The MITRE Corp.
202 Burlington Rd MS B155
Bedford, MA 01730
(617)271-4600
FAX: (617)271-4686
Schwarm@mitre.org
Packet: W3EVE @ KD1CE.#RI.USA.NA

235. Re: [APRSSIG:1189] Re: Compuadd 325TX?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 12 May 1995 08:58:09 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505121358.IAA22648@solar.cs.tamu.edu>
Rendered body type: text/plain

Just a note: I recently acquired a Compaq Contura Aero 486/25, and they made a pretty big deal about their auto adapter. After more than a little judicious staring at specs and manuals, I plugged it into the cigarette lighter.

I can't charge the battery: That requires 17 volts. I can run the computer, though, just fine.

Might want to review your specs and make sure you have to go with an expensive DC adapter or a noisy inverter.

If you do have to go with the inverters, though, one of the local folks who has an EMI/EMC testing business has pronounced the Radio Shack models as clean as you're likely to find.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

236. Re: [APRSSIG:1187] Help with 8088 laptop

From: Lambrc@aol.com
Date: Fri, 12 May 1995 10:12:17 -0400
To: aprssig@tapr.org
Message-ID: <950512101216_116239043@aol.com>
Rendered body type: text/plain

In a message dated 95-05-12 04:14:00 EDT, you write:

>Brad - WA6ZKM -wrote:

```
>>
>> It would be nice if you
>> could give the program a path to find the map files say if they
>> were located in the B drive on a disk. That way a person could
>> utilize both floppy drives.
>>
```

You can try using the dos command - APPEND

this enables program to open data files in specified directories
as if they were in the current directory.

The command is: append /e
 append b:\maps /x:on

Use this command before you run APRS.

You then create a MAP directory on B drive and copy your map files
into it.

I tried it out by creating a RAM Disk and moving my map files
to a sub directory on it. APRS ran without any complaints.

As for disk space... I used a program called PKLITE. This program
compresses EXE files and places a small binary loader in front of it.

The loader expands the program when you execute it. The program
occupies the same amount of memory but occupies much less disk space.

Here is a comparison of APRS68C before and after PKLITE:

APRS68C	EXE	376,392	APRS as distributed
APRS68C	EXE	193,193	APRS after PKLITE

PKLITE is written by the same one who wrote PKZIP..

I hope this helps

Ron Lamb
WB7VDN
WB7VDN @ K4BFT.#NOAL..AL.USA.NA
LAMBRC@AOL.COM

237. Re: [APRSSIG:1186] KPC-3 Questions continue

From: rtm@newton.apple.com (Bob Martin)
Date: Fri, 12 May 95 08:10:01 PDT
To: aprssig@tapr.org
Message-ID: <v02110102abd8c719cade@[17.201.244.134]>
Rendered body type: text/plain

>I also have a KPC-3 (v5.1). I want to upgrade to v6.0 so I can do the GPS
>thing too. But I have some questions.
>

>How does the GPS connect? Do you make a 'Y' splitter between the radio and
>the TNC? I would like more details as to how this works. I have a
>Powerbook, which only has one serial port, so I want to ensure I understand
>how this is going to work before I proceed with upgrading.

When running from the GPS receiver, it's the only thing connected- you
disconnect the computer and connect the kpc-3 to the gps. the upgrade is
worth the price anyway.

>
>BTW, I have the Garmin 40, I bought the antenna and data cable. The data
>cable has a four pin connector, but only 3 wires. I have no doubt about how
>to connect it to the computer. I wonder how to externally power the GPS
>though. Does it take power from the computer? Can it take power from the
>computer? Is there a separate power cable? Can they both be used at the
>same time?

don't know about the gps, but you can power the kpc-3 from the powerbook- Maxim
makes a small boost-mode switching converter that puts out +12 at up to 100ma-
the evaluation kits (max734, I think) are available directly from Maxim- you
can mount this switcher inside the kpc-3 where the 9 volt battery should sit,
and power the kpc-3 from the adb port on the powerbook. made a set of short
cables, and the kpc-3 gets held onto the powerbook with velcro. works great.

drop me a note if you'd like further details.

73-

--
Bob Martin N6MZV * rtm@newton.apple.com
 * N6MZV @ N0ARY.#NOCAL.CA.USA.NOAM

238. GPS results...

From: paul@paccomm.com
Date: Fri, 12 May 95 11:46:49 UTC
To: aprssig@tapr.org
Message-ID: <3605@paccomm.com>
Rendered body type: text/plain

A while back I said I was comparing GPS receivers with a program I wrote which would sample position fixes from two receivers simultaneously. Well, it really proved what GPS is all about and why LORAN is still more accurate most of the time! I prefer "Spindrift" to stay on LORAN with the autopilot until the day they turn off, only then will GPS get connected in.... why?
I took identical receivers (Trimble SVee6CM2s), placed their antennas side-by-side and let them rip. The antennas were deliberately placed in a marginal spot for reception. The results were pretty staggering. At most times the receivers recovered positions several to many feet apart. This was not necessarily a weakness in the Trimble design. Comparing Garmin 45 to Trimble showed the same thing. What is shown is that no matter the power of your tracking and acquisition algorithm in the receiver, you are unlikely to hold and track the same set of satellites for significant times. Standing two different hand-held GPSs side-by-side is no measure of their accuracy or "value". Go for a receiver with the features and sensitivity you require for your task. Oh, and don't EVER trust it for navigating until the day they switch off S/A !!!! (unless you can afford the DGPS receiver). Moral of the story - if you want accuracy all the time you still need to spend between \$1000 and \$4000 on a receiver. Don't let this deter anyone - just bear it in mind.....
Regards, Paul.

Paul Evans, W4/G4BKI paul@paccomm.com
+1 (813) 874-2980 Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm.
I don't surf the internet, I SAIL IT!
Captain of S/V "Spindrift" (Catalina 36), Dunedin, FL.
PacComm Packet Radio Systems, Inc., 4413 N. Hesperides St., Tampa, FL 33614-7618

239. slight problem w/6.8c

From: N9RLR@aol.com
Date: Fri, 12 May 1995 12:31:16 -0400
To: aprssig@tapr.org
Message-ID: <950512115435_116335704@aol.com>
Rendered body type: text/plain

I have just loaded the 6.8 to 6.8c into my computer and cannot figure out how to put a watchbox in. Tomorrow we are expecting severe wx and would like to have it figured out soon. I read the wx.txt and attempted to follow the directions. Apparently, I am being outsmarted by this program for once. When the person who answers this could just up the keystrokes and directions which would accomplish the watchbox task.

THANKS
NOID N9RLR

240. Re: [APRSSIG:1190] Re: Help with 8088 laptop

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Fri, 12 May 1995 09:59:32 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950512095818.17239A-100000@napalm.ecst.csuchico.edu>
Rendered body type: text/plain

I am not sure it uses the DOS 3.2 version, I will check to see if it does have the Join command on it and let you know how it works or does not work....

There are a lot of good ideas out there.

Brad

241. Re: [APRSSIG:1195] GPS results...

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 12 May 1995 13:55:49 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505121855.NAA27799@solar.cs.tamu.edu>
Rendered body type: text/plain

As a counterpoint to Paul's note, I've done similar comparisons. I get good correlation between 2 Motorola VP OnCore receivers, as to satellites tracked etc. And as for navigating, I can always find the airport, providing we don't have a gap in satellite coverage. I'd not even think of flying without my Garmin GPS-55AVD or someone else's GPS. Loran is too unreliable in IFR conditions for dependability, especially in Texas where you experience a lot of P-static from ionized air in the vicinity of thunderstorms.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

242. APRS68D possible problem

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Fri, 12 May 1995 12:11:41 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950511203055.8032A-100000@napalm.ecst.csuchico.edu>
Rendered body type: text/plain

Hello all, I just downloaded APRS68D from the ftp.tapr.org, no problem download, it went very smooth.

Went to install the new program as I have with the 10 or so versions before it, you know pkunzip -d aprs68d c:\aprs. Well that went fine to it exploded into its nice little subdirectories and the whole works just like its predecessors. But when I tried to run it, the neat little package came up and gave me an error stating that it could not find the maps subdirectory. Now keep in mind this is about the 10th time I have done this same procedure, without any problems.

Well I went back in and looked at all the directories and subdirectories to make sure that everything was in order, and it was layed out just fine.

APRS
 HSTS
 BAKS
 MAPS
 README
 SYSTEM

and you all no the routine. So I checked the aprs directory and made sure that the maplist.usa was in there and it was. I checked the maps subdirectory to make sure it had all the maps and it does. I even replaced aprs68d.exe with aprs68c.exe and the thing works great. Do we have a problem with aprs68d.exe and is anyone else experiencing this little problem? Or is it me? Don't answer that last one please. Anyway help help and help some more, thanks in advance, I know someone out there has the answer. Bye the way I am running this on a full blown all the extras P90 with 16 megs of ram, etc etc...73's all

Brad

243. Re: APRS68D possible problem

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Fri, 12 May 1995 12:25:43 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950512122138.3704A-100000@napalm.ecst.csuchico.edu>
Rendered body type: text/plain

On Fri, 12 May 1995, Bradley Lee Ambers wrote:

>

> Hello all, I just downloaded APRS68D from the ftp.tapr.org, no
> problem download, it went very smooth.

>

> Went to install the new program as I have with the 10 or so versions
> before it, you know pkunzip -d aprs68d c:\aprs. Well that went fine


```

> to it exploded into its nice little subdirectories and the whole works
> just like its predecessors. But when I tried to run it, the neat little
> package came up and gave me an error stating that it could not find
> the maps subdirectory. Now keep in mind this is about the 10th time
> I have done this same procedure, without any problems.
>
> Well I went back in and looked at all the directories and subdirectories
> to make sure that everything was in order, and it was laid out just fine.
> APRS
>   HSTS
>   BAKS
>   MAPS
>   README
>   SYSTEM
>
> and you all no the routine. So I checked the aprs directory and made
> sure that the maplist.usa was in there and it was. I checked the maps
> subdirectory to make sure it had all the maps and it does. I even replaced
> aprs68d.exe with aprs68c.exe and the thing works great. Do we have a
> problem with aprs68d.exe and is anyone else experiencing this little
> problem? Or is it me? Don't answer that last one please. Anyway help
> help and help some more, thanks in advance, I know someone out there
> has the answer. Bye the way I am running this on a full blown all the
> extras P90 with 16 megs of ram, etc etc...73's all
>
> Brad
>
>
>
>

```

I made an incorrect statement regarding the swapping of the exe files
 aprs68c.exe also bombs out when swapped with aprs68d.exe and using
 the same files in the aprs directory and all subdirectories.

The error that pops up is this, "Stop in line 0 of module aprs9w at
 address 0DF2.5C12", hope this helps someone with my problem...

73's again

Brad

244. Re: [APRSSIG:1198] Re: GPS results...

From: kirk@neptune.gsfc.nasa.gov (Robert Kirk)
 Date: Fri, 12 May 1995 15:43:54 -0400
 To: aprssig@tapr.org
 Cc: gerry@cs.tamu.edu
 Message-ID: <199505121946.PAA24410@neptune.gsfc.nasa.gov>
 Rendered body type: text/plain

```

At 14:04 5/12/95 -0500, Gerald J Creager wrote:
>As a counterpoint to Paul's note, I've done similar comparisons. I get good
>correlation between 2 Motorola VP OnCore receivers, as to satellites tracked
>etc. And as for navigating, I can always find the airport, providing we don't
>have a gap in satellite coverage. I'd not even think of flying without my
>Garmin GPS-55AVD or someone else's GPS. Loran is too unreliable in IFR
>conditions for dependability, especially in Texas where you experience a lot
>of P-static from ionized air in the vicinity of thunderstorms.
>
>73, gerry
>--
>Gerry Creager N5JXS * SAREX Co-Investigator
>gerry@cs.tamu.edu * A little radio that lets kids talk
> * to astronauts, and smile
>*****

```

I think Gerry's right. I'd rather have a *little* inaccuracy all the time than
 unreliable great precision. At sea, with sparse Loran, I've gone days
 without any more than a dead reckoning position (too cloudy for sextant);
 To know where we were within a hundred yards would have been pure
 luxury. Even in a foggy harbor a hundred yards is fine if you go slow
 enough. Which you should in fog anyway. Don't we all?

Bob Kirk N30ZB
 kirk@neptune.gsfc.nasa.gov

245. Problem with APRS68d

From: wno1le@fly.HiWAAY.net
Date: Fri, 12 May 95 14:54:41 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950512145928.wno1le@wno1le.HiWAAY.net>
Rendered body type: text/plain

Brad Ambers, I read your message and i am wondering wether you may have a corrupted EXE file. I downloaded the same version from the same place you got yours from. I installed it without any problems at all. I put our local detailed map in the USA file and all is going great so far. I would try to download another copy and see if it will cure the problem!.
Good Luck...

William Nolle (KE4EER)
wno1le@hiwaay.net
KE4EER@K4BFT.#NOAL.AL.USA.NOAM

246. GPS accuracy questioned

From: wno1le@fly.HiWAAY.net
Date: Fri, 12 May 95 15:06:23 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950512152149.wno1le@wno1le.HiWAAY.net>
Rendered body type: text/plain

At 14:04 5/12/95 -0500, Gerald J Creager wrote:
>As a counterpoint to Paul's note, I've done similar comparisons. I get good
>corellation between 2 Motorola VP OnCore receivers, as to satellites tracked
>etc. And as for navigating, I can always find the airport, providing we don't
>have a gap in satellite coverage. I'd not even think of flying without my
>Garmin GPS-55AVD or someone else's GPS. Loran is too unreliable in IFR
>conditions for dependability, especially in Texas where you experience a lot
>of P-static from ionized air in the vicinity of thunderstorms.
>
>73, gerry
>*****

I think Gerry's right. I'd rather have a *little* inaccuracy all the time than unreliable great precision. At sea, with sparse Loran, I've gone days without any more than a dead reckoning position (too cloudy for sextant); To know where we were within a hundred yards would have been pure luxury. Even in a foggy harbor a hundred yards is fine if you go slow enough. Which you should in fog anyway. Don't we all?

Bob Kirk N3OZB

I have never used Loran but i know my Magellan GPS NAV-5000DX is as accurate as stated (If not much better). Repeated times i have taken my Magellan and placed it on top of one of the 250 or so Survey control data markers located within our county, These are cement markers with bronce plates giving the Lat/Lon. The following was taken off of one of the markers down the block from my location. Marker#9147 Lat.34:59.26.17406/Lon.86:29.59.95226 Elevation 849.816. I have the full listing of my county. Now when i placed my Magellan on top of the marker within 5 minutes my reading was nearly perfectly the same as the GPS Data marker. Like i said i did this with several markers and had pretty much the same results with all of them!
By the way i got the Global Positioning System Survey Control Data Manual and map on how to find the markers from our local county survey director. Just figured this may be some help to those that wan't to check the accuracy of their GPS.

William Nolle (KE4EER)
wno1le@hiwaay.net
KE4EER@K4BFT.#NOAL.AL.USA.NOAM

247. Re: [APRSSIG:1189] Re: Compuadd 325TX?

From: philkeys@olympus.net (Phil Keys)
Date: Fri, 12 May 1995 14:01:08 -0800
To: aprssig@tapr.org
Message-ID: <v0151010abd989b80907@[198.133.237.32]>
Rendered body type: text/plain

I recently boughta \$40 200W inverter at Fry's. I find that it is incredibly noisy on HF. Does anybody know of an RF quiet little inverter?

Thanks
Phil Keys
KJ7ET

248. Re: [APRSSIG:1194] Re: KPC-3 Questions continue

From: philkeys@olympus.net (Phil Keys)
Date: Fri, 12 May 1995 14:08:51 -0800
To: aprssig@tapr.org
Message-ID: <v01510103abd98cc4c018@[198.133.237.51]>
Rendered body type: text/plain

Is the same GPS mode upgrade also available for the KPC-9612?

Thanks
Phil
KJ7ET

249. (no subject)

From: brad@ecst.csuchico.edu (Bradley L Ambers)
Date: Fri, 12 May 1995 14:02:38 -0700
To: aprssig@tapr.org
Message-ID: <199505122102.OAA02340@hairball.ecst.csuchico.edu>
Rendered body type: text/plain

Ok I download another copy of the APRS68D.zip from ftp.tapr.org and I still have the same problem, It can not find the Maps, same error everything. Read my previous post, this is frustration as H___.

brad@ecst.csuchico.edu

250. Re: [APRSSIG:1199] APRS68D possible problem

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 12 May 1995 17:46:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950512172834.6676C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Wow, I cant believe that 68d has already made it to the FTP site. It was only on the bbs here for one day.. Oh well...

I just saw the report from Brad Amberly about a possible problem? Lemme know ASAP.

In the mean time, I just posted 68e cuz of a small(!) problem. Turns out that the post-Dayton fix where I do NOT draw the map in any GPS mode until I get a fix has a small problem. When the fix comes in, APRS tries to plot it on the background screen (which does not yet have a map on it...) and CrashBOOM. But since the crash is on the background screen, you dont even see it! Hit return, and you are back at the DOS prompt.

So 68e is a MUST REPLACE for anyone USING GPS with 68c or d.

Sorry. I spent till midnight trying to get a trimmed down version of 68c to run the GPS on the Naval Academy boats and was getting nowhere... When I realized that it might be the scenario above, I took the rest of the day off, to fix APRS, so that I could minimize the damage and replace 68d on the BBS asap. For being there only 22 hours, looks like someone beat me to it.

So if there is a problem in the 68d posted on the ftp.tapr site like was reported by Brad Amberly, which is NOT related to the above problem, then lemme know ASAP, since its also gonna be in 68e.

Keith must be groaning by now. And I thought I was doing so well at keepipng the versions down.

251. [APRSSIG:1206]

From: brad@ecst.csuchico.edu (Bradley L Ambers)
Date: Fri, 12 May 1995 14:59:06 -0700
To: aprssig@tapr.org
Message-ID: <199505122159.OAA08877@hairball.ecst.csuchico.edu>
Rendered body type: text/plain

>Date: Fri, 12 May 1995 16:22:09 -0500
>Reply-To: aprssig@tapr.org
>Originator: aprssig@tapr.org
>Sender: aprssig@tapr.org
>Precedence: bulk
>From: brad@ecst.csuchico.edu (Bradley L Ambers)
>To: aprssig@tapr.org
>Subject: [APRSSIG:1206]
>X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
>X-Comment: Tucson Amateur Packet Radio APRS Special Interest Group

>
>
>Ok I download another copy of the APRS68D.zip from ftp.taprr.org and
>I still have the same problem, It can not find the Maps, same error
>everything. Read my previous post, this is frustration as H____.
>
>brad@ecst.csuchico.edu
>
>
>
>
brad@ecst.csuchico.edu

252. Re: [APRSSIG:1206]

From: DKAPLAN@netins.net (David Kaplan)
Date: Fri, 12 May 1995 19:20:54 -0500
To: aprssig@taprr.org
Message-ID: <199505130021.TAA07280@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

>
>Ok I download another copy of the APRS68D.zip from ftp.taprr.org and
>I still have the same problem, It can not find the Maps, same error
>everything. Read my previous post, this is frustration as H____.
>
>brad@ecst.csuchico.edu
>
>
>
Did you unzip it using the command "PKUNZIP APRS68D -D"? The -D tells the system to create the subdirectories. If the maps are in the root directory APRS will not find them.

253. Re: [APRSSIG:1209] Re:

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Fri, 12 May 1995 18:26:57 -0700 (PDT)
To: aprssig@taprr.org
Message-ID: <Pine.HPP.3.91.950512182559.13964A-100000@napalm.ecst.csuchico.edu>
Rendered body type: text/plain

As I stated in an earlier post this was about my tenth upgrade in or with this software, the problem has been solved and Bob has been informed of the problem and is cure. Thank you.

Brad

254. Re: [APRSSIG:1199] APRS68D po...

From: W2H0B@aol.com
Date: Fri, 12 May 1995 23:55:14 -0400
To: aprssig@taprr.org
Message-ID: <950512235512_117086504@aol.com>
Rendered body type: text/plain

For info to the SIG

I installed 6.8d just fine and all is running well here... booted up ok... haven't checked out all the features yet. I too have installed many versions since 2.08 but do not have any problems finding the maps in the \MAPS subdir... still ticking here!

73 de Boyd AR

255. Garmin-45 serial port

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 12 May 1995 23:27:50 -0500
To: aprssig@taprr.org
Message-ID: <v01510101abd988d8cc4f@[199.1.11.116]>
Rendered body type: text/plain

I have interfaced to my computer a Gamin-45 GPS (software version 2.32).

What is the real story about the serial output voltage. ???
I see Zero to 2.5 Volts.

I have read in the APRS-sig and APRS program notes that it is
+- 3V or that there is a level shifting device in the plug.
NOT ON MY Cable or UNIT !.

I did a quick test by placing a 2,200 ohm resistor to a (-) marking

RS-232 pin on the computer to the GPS serial output pin.
This gave -0.5 to -1.0 output when no data was being sent.
I then started receiving date. I found that just jumping the xmit
and rec pins with the resistor also seemed to work.

I have the Garmin PCX5 IBM software disk and data cable.
The Cable supplied with the software does have a small clamp on RFI choke
6 inches from the 4 pin GPS side of the cable.
The other end of the cable is a 9-pin female computer plug.

9-pin Plug-- 4 pin GPS plug
Pin 2 (Brown) - Data in
Pin 3 (White) - Data out
Pin 5 (Black) - Ground (Power and Data)
NC (Red) - Power

The colors are from the other available data cable
Garmin/45 Power/date with in-line fuse \$26.95

Someone posted that the Garmin/45 serial I/O is RS-422. I will give
that a try on my Mac and see if I can run it without a level shifter.

PCX5 runs very slow under Mac Softwindows but it does function after
making the level shift modification..

If anyone know the real I/O specification , please post.

Thanks

Bob KC5EJK Dallas -- kc5ejk@onramp.net

256. MacGPS_45 RS232 connection

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 12 May 1995 23:28:00 -0500
To: aprssig@tapr.org
Message-ID: <v01510102abd9e300fab9@[199.1.11.116]>
Rendered body type: text/plain

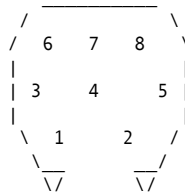
Paul Ross posted this in the sci.geo.satellite-nav group

To connect the Garmin 45 to a Mac the folowing works well (at least on my
PowerBook 170).

The easiest thing is to get a printer cable which has a couple of 8 pin
mini DIN plugs on it and cut it in half. Identify each wire connection to
the relevant pin on the plug and solder the Garmin 45 cable wires as
follows:

Garmin cable colour	Signal	8 pin mini DIN
-----	-----	-----
Black	Ground	4
White	Data In	3
Brown	Data Out	5

The pins on the 8 pin mini DIN plug attached to the cable are numbered
thus when looking into the pins (sorry for the poor drawing):



Paul Ross

Bob Kc5ejk

257. re:wx box and download

From: N9RLR@aol.com
Date: Sat, 13 May 1995 00:44:32 -0400
To: aprssig@tapr.org
Message-ID: <950513004431_117129262@aol.com>
Rendered body type: text/plain

Well heck I havent had a problem with the program on the laptop here but the 286 qth computer wont "play" ball. On the 286 it wont unzip but on the laptop it did both using the same unzip program. Go figure.

Also is the Wx watch "box" a true box on the screen because I havent been able to get it. Is it a Input function or a Wx function. I didnt quite understand the Wx.txt file on the what it is under in respect to building a watchbox. eg. to get a tornado to appear it goes I for input, A add obj, lat-long,object name, wx, etc... What Im asking is the keystrokes to input a watchbox.

One last thing if I wanted to post a Bulletin what are the keystrokes?
Once again thank you for all,

NOID N9RLR PEORIA

258. Re: [APRSSIG:1188] Re: KPC-3 Questions continue

From: Emmet2@aol.com
Date: Sat, 13 May 1995 01:33:55 -0400
To: aprssig@tapr.org
Message-ID: <950513013354_117165725@aol.com>
Rendered body type: text/plain

<<

The TNC to GPS cable used would not be a Y cable, since the computer is not used in this mode.

To use the GPS and a PC and APRS together, you would need two comm ports (or construct or build the Hardware Serial Port Adapter that Bob describes in the GPS Readme file). This allows APRS controlled switching between the GPS and TNC on 1 comm port. Works great, I might add!
>>

I must have missed something there. The computer is not involved but it takes two serial ports? How does the TNC get the data if the computer doesn't direct the data from serial port one to serial port two?

<<

One of the things they stripped out of the 40 when it was cloned from the 45 was the 5-40 volt power input capability. I understand there is a cigarette lighter cord or some type of Garmin cord that you are supposed to use. Never thought about robbing computer power- my laptop has little enough power as it is ! :)
>>

The Garmin 40 is still supposed to do power in, just has a narrower voltage range (which is no big deal, just make a little voltage regulator. The question still remains, how to get external power into the 40 while taking data out ...

Chip Griffin - President of Thames River Apple Users Group
SysOp of The Quarry BBS (203-889-6427)

-----+-----
Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
N1MIE@N10KK.CT.USA | 1:320/301 (fidonet)

259. APRS

From: "Sykes, Stephan E" <ses@rfpo2.rfc.comm.harris.com>
Date: Sat, 13 May 95 10:39:00 DST
To: APRS <aprssig@tapr.org>
Message-ID: <2FB4C4AE@smtgate.rfc.comm.harris.com>
Rendered body type: text/plain

Hello Bob,

I have been using your software for a few days now. I registered it in order to gain some experience with it for a commercial application here in the UAE. I will not use this version for the commercial job.

The simplified details of my application are that I will have one semi-fixed site. It will move about once per day. The mobiles will operate in about a 40 km area around the fixed site. Each evening the mobiles will return to the fixed site which will have moved. I only need to see if the mobiles are headed in the correct direction or not.

The features desired:
Scaleable grid.
Kilometers instead of miles.
Speed and distance of mobiles.

How difficult (expensive?) would some or all of these enhancements be?
Some might be useful even in the amateur version.

Thank you
Steve Sykes kd2om/a61aa

260. AUTOMATIC CONTROL & APRS USERS

From: AA8JK@aol.com
Date: Sat, 13 May 1995 11:59:17 -0400
To: aprssig@tapr.org
Message-ID: <950513115913_117409114@aol.com>
Rendered body type: text/plain

Now that the FCC has changed the HF rules on automatic control of a data station, I feel it may be the right time to "stake our claim" and consider some additional HF frequencies for APRS use.

So we (APRS users) are not burdened with the title of "Frequency Theifs" or "Spectrum Abusers" from non-APRS'ers (like when we started to use 145.79 Mhz), I feel we need to come up with a plan to use a group of frequencies on HF. I am looking for input from the users to come up with a plan.

The 30 meter frequency of 10.151 LSB has been working well for us. We, as users, have learned about 30 meter propagation and have worked around it, making 30 meters useful. Bob's idea of using the last available frequency on 30 for APRS is an idea that can be used on the other bands.

AUTO SEGMENT	PRESENT APRS FREQ	PROPOSED
28.120-28.189	NONE	28.190 LSB
24.925-24.930	NONE	24.931 LSB
21.090-21.100	NONE	21.101 LSB
18.105-18.110	NONE	18.111 LSB
14.095-14.0995	14.0963 USB	NO CHANGE
10.140-10.150	10.151 LSB	NO CHANGE
7.100-7.105	7.085 LSB	7.106 LSB
3.620-3.635	????????	3.636 LSB
1.800-2.000	????????	????????

Is there a SW broadcaster at 7.105????

Remember, when using lower sideband, your signal is 1.7Khz DOWN from the freq on your radio, being well within FCC requirements. (see HF.TXT in readme directory of APRS).

I am NOT putting this information out to be the APRS HF Frequency God. I would like to see some type of workable HF plan to be decided upon by the users. I feel if we do not come up with a plan, we could be "on the outside looking in". The future of APRS on HF is up to us.

As one who has run APRS from a non-North American location, I would like to see the 17 meter band used for APRS. When in Australia, 20 meters was mostly useless due to the large number of other stations on the band. 30 meters was not much better, as there are many non-ham users still in the 10.150 area. 40 meters was the worst of all from down under. Even with our location in the sunspot cycle, 17 meters and 15 meters were good bands, as many data contacts were made. When DX is common in the higher bands in a few years, 10 and 12 meters will once again be useful.

Please let me know how you feel about APRS on HF. Let's work together to come up with a plan!

Anyone on 6 meters? Where are you? 50.79 Mhz for National APRS 6 meter frequency?

73,

Steve Caesar AA8JK/VK4SID

AA8JK@aol.com

261. ERROR in version E download

From: wnoille@fly.HiWAAY.net
Date: Sat, 13 May 95 11:28:45 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950513113216.wnoille@wnoille.HiWAAY.net>
Rendered body type: text/plain

I downloaded the APRS version E upgrade from TAPR on ithernet and after unzipping the file PKUNZIP reported an error in the file. I attempted to use PKZIPFIX as directed and got the report ERROR IN EXE file.

William Nolle (KE4EER)
wnoille@hiwaay.net
KE4EER@K4BFT.#NOAL.AL.USA.NOAM

262. Re: [APRSSIG:1170] Fixed MAPS...

From: Chicagowx@aol.com
Date: Sat, 13 May 1995 17:06:49 -0400
To: aprssig@tapr.org
Message-ID: <950513170647_117641759@aol.com>
Rendered body type: text/plain

Bob, you mentioned that APRS83d has fixed the 100th of an inch rain guage problem... Did you find a problem? I figured I was one of very few maybe using it but I was concerned with the readings being decoded by people? Does this mean anyone using 83d will get good readings, or will it show correctly in older versions? Plus, I think that the Watch boxes being easier to draw for storms would help, I do the bpx, and the box is the same size, Cannot shape it to match the watch area issued by weather service, just another person giving an opinion that maybe it would be easy to do

263. Re: [APRSSIG:1218] ERROR in version E download

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Sat, 13 May 1995 15:19:18 -0500
To: aprssig@tapr.org
Message-ID: <199505132133.QAA22018@home.interaccess.com>
Rendered body type: text/plain

>I downloaded the APRS version E upgrade from TAPR on ithernet
>and after unzipping the file PKUNZIP reported an error in the
>file. I attempted to use PKZIPFIX as directed and got the report
>ERROR IN EXE file.

>
>William Nolle (KE4EER)
>wnoille@hiwaay.net
>KE4EER@K4BFT.#NOAL.AL.USA.NOAM
>
>
>
>
William,

If the file you FTPed was APRS68E.zip from the TAPR SIG site than yes it appears to be bad. As the normal APRS zip file is 1.2 to 1.4 Meg in size and this one looks to be under 100k Ill bet someone got interrupted and knocked off line during an upload. Try 66to68e.zip that one works if you unzip it properly.

73
Ed
N9LCI

264. APRS

From: "Sykes, Stephan E" <ses@rfpo2.rfc.comm.harris.com>
Date: Sat, 13 May 95 22:51:00 DST
To: "'Bob Bruninga'" <aprssig@tapr.org>
Message-ID: <2FB57030@smtgate.rfc.comm.harris.com>
Rendered body type: text/plain

From: Sykes, Stephan E
To: Bob Bruninga
Subject: APRS
Date: Sunday, May 14, 1995 07:34

Hello Bob,
I have been using your software for a few days now. I registered it in

order to gain some experience with it for a commercial application here in the UAE. I will not use this version for the commercial job.

The simplified details of my application are that I will have one semi-fixed site. It will move about once per day. The mobiles will operate in about a 40 km area around the fixed site. Each evening the mobiles will return to the fixed site which will have moved. I only need to see if the mobiles are headed in the correct direction or not.

The features desired:
Scaleable grid.
Kilometers instead of miles.
Speed and distance of mobiles.

How difficult (expensive?) would some or all of these enhancements be?
Some might be useful even in the amateur version.

Thank you
Steve Sykes kd2om/a61aa

265. Whining

From: Emmet2@aol.com
Date: Sun, 14 May 1995 03:41:59 -0400
To: aprssig@tapr.org
Message-ID: <950514034157_118076358@aol.com>
Rendered body type: text/plain

I hear an awful lot of whining going on in here. There seems to be a lot of folks who don't appreciate the tremendous effort that goes into writing, debugging, and refining an application (not to mention custom data files separately created to support such an application). There have been very few of you out there to give credit where it is due.

I for one would like to applaud Bob and Keith for the terrific efforts they have put into these applications (Keith is the author of the Mac version for those who haven't figured that out). I would further like to applaud Bob for putting up with a lot of heat from the list. A lot of "too many versions", "this don't work", "I don't like how this looks", "we need this feature". I would also like to thank Keith for jumping in to help Bob, even when the question/comment/complaint had nothing to do with his specific contribution.

Thanks for the work, Bob and Keith. Thanks for the list. And thanks for the bandwidth.

Lets try to be more contructive and less destructive!

Chip Griffin - President of Thames River Apple Users Group
SysOp of The Quarry BBS (203-889-6427)

-----+-----
Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
N1MIE@N10KK.CT.USA | 1:320/301 (fidonet)

266. Re: [APRSSIG:1217] AUTOMATIC CONTROL & APRS USERS

From: JayKQ4MS@aol.com
Date: Sun, 14 May 1995 08:52:03 -0400
To: aprssig@tapr.org
Message-ID: <950514085201_118135673@aol.com>
Rendered body type: text/plain

Steve, I like the idea of the 6m APRS freq. You have my support for ALL the frequencies listed, although I haven been able to "see" anyone on 40m. I've been lax in my endeavors with APRS. Versions jumped about 4 upgrades since I was last on. Also, I've gotten some locals here in the Raleigh area interested in the VHF APRS. We're trying to get a (simi)wide area digi up and running east of Raleigh. Hope you have a lot of replies to your message. Wish us luck.

Jay Netteterville KQ4MS@N1GMV.#RTP.NC.USA.NOAM

267. Re: [APRSSIG:1218] ERROR in version E download

From: JayKQ4MS@aol.com
Date: Sun, 14 May 1995 08:52:05 -0400
To: aprssig@tapr.org
Message-ID: <950514085203_118135678@aol.com>
Rendered body type: text/plain

Good Gosh!!! Version E is out now???? I JUST got version d!!!
Jay KQ4MS

268. Re: 68a and monochrome

From: theojskat@omni.voicenet.com (Ted Katz)
Date: Sun, 14 May 1995 10:26:46 -0400
To: aprssig@tapr.org
Message-ID: <9505141429.AA18206@voicenet.com>
Rendered body type: text/plain

For Bob Bruninga, WB4APR --
I am trying to get aprs 68a to run on my backup system (486sx).
Monochrome system. There is no room for a second vga monitor.
I get a error "opps err 5" ??
I can't find any error doc's. And I have a registered copy of 68a.

Also can Update to the 68d and use the same v# ?

Thanks for the help
Ted N30WM , Phila Pa

269. PCI GPS

From: KeithB10@aol.com
Date: Sun, 14 May 1995 11:19:42 -0400
To: aprssig@tapr.org
Message-ID: <950514111940_118206902@aol.com>
Rendered body type: text/plain

Someone in the APRS Booth in Dayton had a PowerBook 500c and a GPS that plugged into the left battery port...

I would like some info on that....

Thanks from Kansas City Mo
KA0VVX Keith

270. Re: [APRSSIG:1226] PCI GPS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sun, 14 May 95 13:19:35 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.800471975.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The PowerBook 540c at Dayton was me.. It was the Rockwell NavCard GPS. This unit outputs in BINARY mode. The Mac version of APRS does support this, but now Rockwell is supposed to have a NMEA version of the card out.

This card goes for \$399 with antenna (last time I checked on the price was a couple months ago).

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

271. Re: [APRSSIG:1206]

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 14 May 1995 16:02:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950514155533.9108B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 12 May 1995, Bradley L Ambers wrote:

> Ok I download another copy of the APRS68D.zip from ftp.tapr.org and
> I still have the same problem, It can not find the Maps, same error
> everything. Read my previous post, this is frustration!

APR REPLY: In a subsequent message, Brad found the problem. I havent confirmed it, but here is what I suspect.

In 68D I changed the default map to MAPLIST.USA. This should make it easier to keep track of all future map lists, since you no longer will have to RENAME start-up maps to MAPLIST.APR.

The problem was that anyone starting 68d without saying APRS68d/new will end up loading their old CFG file. This old CFG file will point to MAPLIST.APR. (Which will not be there...)

This explanation should be why Brad had problems, except that, If he had downloaded 68d into his existing APRS directories, then the old copy of

MAPLIST.APR should have still been there... Brad, can you confirm that you must have downloaded 68d into a NEW directory, or somehow else, did not still have a copy of MAPLIST.APR to match your old CFGI file?

272. Re: [APRSSIG:1217] AUTOMATIC CONTROL & APRS USERS

From: jgarrett@world.std.com (John Garrett)
Date: Sun, 14 May 1995 15:52:38 -0400
To: aprssig@tapr.org
Message-ID: <6-bjlmPA4wz0065yn@World.std.com>
Rendered body type: text/plain

"

" Now that the FCC has changed the HF rules on automatic control of a data station, I feel it may be the right time to "stake our claim" and consider some additional HF frequencies for APRS use.

"

" So we (APRS users) are not burdened with the title of "Frequency Thiefs" or "Spectrum Abusers" from non-APRS'ers (like when we started to use 145.79 Mhz), I feel we need to come up with a plan to use a group of frequencies on HF. I am looking for input from the users to come up with a plan.

A plan is good. I don't see any need to occupy 10 HF frequencies for APRS in the US/globally. Not that PacketCluster and BBSes don't do just that. Just who is calling us "Frequency Thiefs" [sic] anyway? Locally the 1200 baud BBSes whose bulletin listings are over 70% FORSALE @ USBBS [that's right, and so the same damn stuff is on every BBS] maintain that they "have" to take experimental spectrum so they can put up more ax.25 FORSALE BBSes!! Luckily all the sysops aren't like this, and one local guy is shutting off his 1200 baud user port tomorrow morning and offering the first 9600 baud user port in the Boston area. Hooray for him, I say. The guy has withstood over 250 pieces of hate mail for his forward thinking. Every one of the people who gave him grief can hit 4 or 5 other BBSes! Good God, the APRS users are probably the most efficient!

Who knows? One day we may all be using junked analog cellphones tuned to 902 Mhz for APRS!

John
WN9T

273. Re: [APRSSIG:1216] APRS

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 14 May 1995 16:17:11 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950514160840.9108C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 13 May 1995, Sykes, Stephan E wrote:

> The simplified details of my application are that I will have one
> semi-fixed site. It will move about once per day. The mobiles will operate
> in about a 40 km area around the fixed site. Each evening the mobiles will
>
> The features desired:
> Scaleable grid.
> Kilometers instead of miles.
> Speed and distance of mobiles.

APR REPLY: Zoom to the 32 mile or lower scale anywhere in the USA. then select MAP-PLOTS-CAP. That will display the CAP search-and-rescue grid. That is based on a 7.5 minute grid system (about 10 km). It would be trivial to extend that grid anywhere in the world. (in fact, when I finish this msg, I'll see what it does in the E hemisphere)

KM is something I should do anyway...

Speed is automatically plotted by the LENGTH of the leader

Range and bearing from the center to any object (the current location of the cursor) is already in APRS. Use MAPS-PLOTS-RANGE command.

274. Re: [APRSSIG:1219] Re: Fixed MAPS...

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 14 May 1995 16:24:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950514161947.9108D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 13 May 1995 ChicagoWx@aol.com wrote:

> Bob, you mentioned that APRS83d has fixed the 100th of an inch rain gauge
> problem... Did you find a problem?

APR REPLY: Yes, in the top-of-screen WX display, I was not properly
parsing the additional 100th digit.

> Does this mean anyone using 83d will get good readings, or will it show
> correctly in older versions?

APR REPLY: No, the fix is for your local display. Only 68d will see the
correct display (I hope!)

> Plus, I think that the Watch boxes being easier to draw
> for storms would help, I do the bpx, and the box is the same size. Cannot
> shape it to match the watch area issued by weather service, just another
> person giving an opinion that maybe it would be easy to do

APR REPLY: THE NEW WATCH BOX FEATURE IS NOT A BOX. It is a LINE.
Select INPUT-ADD-OBJECT-AREA-LINE. Then when asked for comments for that
object, insert anywhere in the comments the half-width of the box in
miles enclosed in braces: { 30}
This will draw the center line and two dotted lines 30 miles either side
of it. Notice that the {xxx} is a 3 digit field.

275. Re: [APRSSIG:1225] Re: 68a and monochrome

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 14 May 1995 16:37:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950514163535.9108H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 14 May 1995, Ted Katz wrote:

> For Bob Bruninga, WB4APR --
> I am trying to get aprs 68a to run on my backup system (486sx).
> Monochrome system. There is no room for a second vga monitor.
> I get a error "opps err 5" ??

APR REPLY: Its the monochrome display. I assumed anything with a VGA
display would be color. Hummh, ill need to ad a B/W user option, but
dont hold your breath. Remind me in a month to see if I have added it yet...

276. Re: [APRSSIG:1228] Re:

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Sun, 14 May 1995 15:46:00 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950514154316.24305A-100000@steroid.ecst.csuchico.edu>
Rendered body type: text/plain

Yes Bob that is exactly what I did. I did not start the program with
the APRS68d /new, I started it as I normally would and the program
came up and asked for all my info again and after entering it I entered
my val number and that was that. This is of coarse after I renamed the
.usa fill to .apr, then turned around and copied the .apr and renamed
it .usa so now I had a .usa and .apr so it would finally run. Opps on
my my part, sorry Bob and tks..

Brad

277. FW: [APRSSIG:1229] Re: AUTOMATIC CONTROL & APRS USERS

From: Tim Smith <TSMITH@fibusa.com>
Date: Sun, 14 May 95 20:48:00 PDT
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2FB6C8FD@ipnovell.fibusa.com>
Rendered body type: text/plain

>>Who knows? One day we may all be using junked analog cellphones tuned
>>to 902 Mhz for APRS!

Hey John...now that's an interesting thought! Wonder how we could use
todays cellular network to augment the packet network? The discussion on
the sig last week about using the internet was interesting...but a notebook
on the move, cellular modem and free off-peak airtime in the Cell One could
be a deadly combination! I don't want to steal any of the limelight from
the amateur service but we should look into this technology as a backup.
With the cellular plan I have I get free offpeak airtime between 7PM and

7AM and all weekend long.

I probably set myself up for a big fat flame now...oh well...

73,

Tim

PS Did anyone find any surplus GPS this past weekend at Rochester?

278. APRS68e

From: MLE7083@aol.com
Date: Sun, 14 May 1995 21:43:36 -0400
To: aprssig@tapr.org
Message-ID: <950514213359_118702104@aol.com>
Rendered body type: text/plain

Bob, what happened to the DF command in ops? Can't even get it to ask me for my DF password.....help

Mark Elliott

279. Heath WX station for APRS

From: jeff.brenton@espi.com
Date: Sun, 14 May 95 22:10:00 -0500
To: aprssig@tapr.org
Message-ID: <9505142210.0V51V02@espi.com>
Rendered body type: text/plain

Since I finished "fine tuning" the broadcast strings this morning, with the help of Larry Keeran, I've already received an inquiry as to how I got a Heath weather station to work with APRS. Well, the secret is.... I didn't, really!

I have dedicated a computer at the McHenry County (IL) Emergency Operations Center to reading several sources, including the Heath Weather station, and putting that information onto the county's computer network, as well as broadcasting it in APRS-compatible form. I still need to discover how to format the rain message for the .01" resolution of the Heath, but that's not that important right now.

For those interested in doing the same, I will post the Crosstalk Mk. 4 scripts (two of them) which I use. I used Crosstalk because it has a very powerful script language available, plus it can handle talking to multiple serial ports at the same time, in a cooperative fashion. The two scripts are run as separate sessions, talking to each other as needed (mainly one way, from the Heath task to the host task, which talks to the TNC).

Eventually, I plan on expanding the host session to handle a dual-port TNC, so that we can continue have interactive stuff available on 145.03, where we normally have a KA-node, as well as APRS; what will be done is an interactive "window" will be used for keyboard input, while the script arbitrates which port data is sent to, as well as taking incoming information off the APRS channel and shuttling it off to another computer, which will likely be running APRS or MacAPRS.

Next message: two Crosstalk scripts!

□ KWQ/2 1.2a □

280. Heath Weather station scr

From: jeff.brenton@espi.com
Date: Sun, 14 May 95 22:10:04 -0500
To: aprssig@tapr.org
Message-ID: <9505142210.0V53Y02@espi.com>
Rendered body type: text/plain

```
-- Script to start weather scripts and sessions, WXSTART.XTS
--      Weather script, written 4/5/95 by Jeff Brenton
--      Finally operational 5/14/95
--      ScriptDesc = "Start weather scripts and sessions"
```

```
global String    commandline, APRSmessage
global Integer   heathsess, networksess, wxttyssess
```

```
commandline = "DO HEATH " + str(sessno)
```

```

new commandline
while msgcount = 0
    wait 1 second
wend
heathsess = val(nextmsg)

-- commandline = "DO NETWORK " + str(sessno)
-- new commandline
-- while msgcount = 0
--     wait 1 second
-- wend
-- networksess = val(nextmsg)

-- can't talk to WXTTY yet...
-- commandline = "DO wxtty " + str(sessno)
-- new commandline
-- while msgcount = 0
--     wait 1 second
-- wend
-- wxttysess = val(nextmsg)

/*      Now tell cooperating sessions where their friends are.
*/

-- commandline = "NETWORK = " + str(networksess)
-- tell heathsess, commandline
-- tell wxttysess, commandline

-- now wait for something to happen, handling messages

call "APRS"

-- initialize TNC

reply chr(3)
wait for "cmd:"
reply "MYCALL KA9VNV-3"
wait for "cmd:"
REPLY "btext !4220.40N/08826.55W$PHG5430 McHenry County EOC"
wait for "cmd:"
reply "Beacon every 20"
wait for "cmd:"
reply "conv"

-- go into loop and wait for messages to send

label WaitForMessages
while msgcount = 0
    /* do something here eventually */
    wait 3 seconds
wend

--     got a message to process

APRSmessage = nextmsg

--     send it to the TNC
reply APRSmessage

goto WaitForMessages

label shutdown
-- tell everyone to shut down
tell heathsess, "SHUTDOWN"
-- tell networksess, "SHUTDOWN"
-- tell aprsess, "SHUTDOWN"
-- tell wxttysess, "SHUTDOWN"
quit
-- END OF WXSTART.XTS

-- Script to read Heath weather station and output APRS packets to TNC
--     Weather script, written 4/5/95 by Jeff Brenton
--     Finally operational 5/13/95
--     ScriptDesc = "Access Heath WX Station and broadcast on packet"

/*      Open and read configuration file, then close to avoid any
        sharing violations
*/

```

```

String  workpath, destpath, commandline, tempfile, destfile, APRSLINE,
fileline string winddir, windspd, gustdir, gustspd, temp, thigh, tlow
string  baro, baroh, barohdate, barohime, barol, baroldate, baroltime
string  humid real      raind, rainr Integer      hostsession, invoked string      eolstr

eolstr=chr(10)+chr(13)

open input "Weather.cfg" as 1
read #1, workpath, destpath
close 1

commandline=arg
hostsession = intval(commandline)
tell hostsession, str(sessno)

/*      Now start asking Heath weather station for information, saving it
to      a file, then pass a string to the host session for broadcast.
*/

call "HEATH"
reply "ATVD/"
commandline=nextline(90,10)
reply "ATVT:"
-- clean up after initialization
commandline = nextline(90,10)

goto takeobs

label startobs
while secno mod 600 > 3
-- delay until 10 minutes has elapsed, checking for shutdown messages
    if msgcount > 0 then {
        commandline = nextmsg
        if commandline = "SHUTDOWN" then quit
        -- ignore other messages
    }
    wait 1 second
wend

label takeobs
invoked = secno
tempfile=destpath+"OBS"+strip(time(invoked,3),":ap",0)+". "+str(curday)
print tempfile

reply "ATRWA"  -- READ WIND AVERAGE SPEED/DIRECTION
commandline = strip(nextline(255,30),eolstr,0) -- need to parse this
-- format "w000M000D"
windspd = mid(commandline,2,3)
winddir = mid(commandline,6,3)
if winddir = "000" then winddir = "360"

reply "ATRWG"  -- READ WIND GUST SPEED/DIRECTION
commandline = strip(nextline(255,30),eolstr,0) -- need to parse this
-- format "w000M000D"
gustspd = mid(commandline,2,3)
gustdir = mid(commandline,6,3)
if gustdir = "000" then gustdir = "360"

reply "ATRT0"  -- READ OUTDOOR TEMP
-- format "T000"
temp = strip(nextline(255,30),eolstr,0)

reply "ATRT0H" -- READ OUTDOOR TEMP HIGH
-- format "<T079 05/07 15:13:07"
thigh = mid(strip(nextline(255,30),eolstr,0),3)

reply "ATRT0L" -- READ OUTDOOR TEMP LOW
-- format ">T079 05/07 15:13:07"
tlow = mid(strip(nextline(255,30),eolstr,0),3)

reply "ATRR"   -- READ RAIN
-- format "R00003"
commandline = strip(nextline(255,30),eolstr,0)
-- skip over leading "R"
raind = val(mid(commandline,2))

reply "ATRRR"  -- READ RAINFALL RATE
-- format "RR000000"
commandline = strip(nextline(255,30),eolstr,0)

```

```

-- skip over leading "RR"
rainr = val(mid(commandline,3))

reply "ATRH0" -- READ OUTDOOR HUMIDITY
-- format "H96"
humid = mid(strip(nextline(255,30),eolstr,0),2)

reply "ATRB" -- READ BAROMETER
-- format "B2978"
baro = mid(strip(nextline(255,30),eolstr,0),2)

reply "ATRBH" -- READ BAROMETER LOW
-- format "<B3023 05/06 06:50:27"
commandline = strip(nextline(255,30),eolstr,0) -- need to parse this
baroh = mid(commandline,3,4)
barohdate = mid(commandline,8,5)
barohtime = mid(commandline,14,5)

reply "ATRBL" -- READ BAROMETER LOW
-- format ">B2930 04/18 16:13:46"
commandline = strip(nextline(255,30),eolstr,0) -- need to parse this
barol = mid(commandline,3,4)
baroldate = mid(commandline,8,5)
baroltime = mid(commandline,14,5)

-- now write observation to file

open output tempfile as #1
fileline = time(invoked,3) + " " + date + " Weather Observation"
write line #1, fileline
write #1, winddir, "Wind Direction"
write #1, windspd, "Wind Speed (Average)"
write #1, gustdir, "Wind Gust Direction"
write #1, gustspd, "Wind Gust Speed"
write #1, mid(temp,2), "Outdoor Temperature"
write #1, mid(thigh,2), "Outdoor Temperature (High)"
write #1, mid(tlow,2), "Outdoor Temperature (Low)"
write #1, raind/100, "Rain since Midnight"
write #1, rainr/100, "Rainfall rate"
write #1, humid, "Outdoor Humidity"
write #1, val(baro)/100, "Barometric Reading (current)"
write #1, val(baroh)/100, "Barometric High (today)"
write #1, barohtime, "Barometric High time"
write #1, val(barol)/100, "Barometric Low (today)"
write #1, baroltime, "Barometric Low time"
close #1

-- construct a message for HOST to broadcast

aprsline =
"@"+pad(str(curday),2,"0",2)+strip(time(invoked,3),":ap",0)+"/4220.40N/08826.55W_"
aprsline = aprsline + winddir
aprsline = aprsline + "/" + windspd
aprsline = aprsline + "/" + temp
aprsline = aprsline + "/B" +
right(baro,3)
aprsline = aprsline + "/Heath WxStn (auto)"
aprsline =
aprsline + ",Gusts " + gustdir + " at " + gustspd

tell HOSTsession, aprsline

-- 86400 seconds per day, reset high/low settings at midnight
if invoked > 85199 then {

    REPLY "ATCBH" -- CLEAR BARO HIGH
    wait for "0"

    REPLY "ATCBL" -- CLEAR BARO LOW
    wait for "0"

    REPLY "ATCHOH" -- CLEAR HUMIDITY HIGH
    wait for "0"

    REPLY "ATCHOL" -- CLEAR HUMIDITY LOW
    wait for "0"
    REPLY "ATCR" -- CLEAR RAIN
    wait for "0"

    REPLY "ATCTOH" -- CLEAR TEMP OUTDOOR HIGH
    wait for "0"

    REPLY "ATCTOL" -- CLEAR TEMP OUTDOOR LOW

```



```

wait for "0"

REPLY "ATCWAH" -- CLEAR WIND AVERAGE HIGH
wait for "0"

REPLY "ATCWAL" -- CLEAR WIND AVERAGE LOW
wait for "0"

REPLY "ATCWGH" -- CLEAR WIND GUST HIGH
wait for "0"

REPLY "ATCWGL" -- CLEAR WIND GUST LOW
wait for "0"
}
-- pause so only one observation per interval
wait 10 seconds
-- clean up any extra characters laying around
commandline=gather(30,255)

-- go back and start all over!
goto startobs
-- END OF HEATH.XTS

---
□ KWQ/2 1.2a □ If at first you don't succeed, put it out for beta test (KWQ Beta

```

281. Re: [APRSSIG:1227] Re: PCI GPS

From: rwf@mindspring.com (rwf)
 Date: Mon, 15 May 1995 00:13:05 -0500
 To: aprssig@tapr.org
 Message-ID: <199505150408.AAA06024@dylan.mindspring.com>
 Rendered body type: text/plain

> The Mac version of APRS does support this, but
 > now Rockwell is supposed to have a NMEA version of the card out.
 >

Now I wish we could just get the "wonderful" folks at Road Scholar (the people who make the "City Streets for Windows" mapping program to support NMEA instead of the silly, proprietary binary format that the nav card "used" to put out.

Those people have an excellent program but are really missing the boat.

Ralph Fowler
 N4NEQ Atlanta

282. Re: [APRSSIG:1227] Re: PCI GPS

From: Emmet2@aol.com
 Date: Mon, 15 May 1995 00:57:41 -0400
 To: aprssig@tapr.org
 Message-ID: <950515003003_118882853@aol.com>
 Rendered body type: text/plain

<<
 The PowerBook 540c at Dayton was me.. It was the Rockwell NavCard GPS. This unit outputs in BINARY mode. The Mac version of APRS does support this, but now Rockwell is supposed to have a NMEA version of the card out.

This card goes for \$399 with antenna (last time I checked on the price was a couple months ago).
 >>

I am interested in more info. I already have a Garmin 40, but this other may be of more use to me. Do you have an address for Rockwell that we could contact?

Chip Griffin - President of Thames River Apple Users Group
 SysOp of The Quarry BBS (203-889-6427)

 Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
 N1MIE@N10KK.CT.USA | 1:320/301 (fidonet)

283. Re: [APRSSIG:1203] GPS accuracy questioned

From: Gerald J Creager <gergy@cs.tamu.edu>
 Date: Mon, 15 May 1995 00:19:31 -0500 (CDT)
 To: aprssig@tapr.org
 Message-ID: <199505150519.AAA21826@solar.cs.tamu.edu>

Rendered body type: text/plain

wnolle@fly.HiWAAY.net sez:

>

> I have never used Loran but i know my Magellan GPS NAV-5000DX is as accurate
> as stated (If not much better). Repeated times i have taken my Magellan and
> placed it on top of one of the 250 or so Survey control data markers located
> within our county. These are cement markers with bronce plates giving the
> Lat/Lon. The following was taken off of one of the markers down the block
> from my location. Marker#9147 Lat.34:59.26.17406/Lon.86:29.59.95226
> Elevation 849.816. I have the full listing of my county. Now when i placed

When trying to ascertain the accuracy of a GPS, gain and use data collected simultaneously for post-processing of GPS data to improve accuracy, PR trying to set a differential reference station site, and using the local "benchmarks", you need to figure out when they were surveyed, what map datum they are tied to, when they were last checked by the County, State or USGS, and whether they are still in use.

Around here, 2 cities, the county, USGS, and Texas A&M University all have reference monuments set. The A&M points, 4 city/county points, and 5 or so of the USGS points are all tied into the network. The rest are nice to know about, a challenge to recover, and may be of some use down the road, but are worthless for checking accuracy to any meaningful level for survey quality.

NOW: Most handheld GPS receivers won't display survey-grade fixes, so you may conclude you can use these benchmarks for your purposes. If you're willing to accept the limitations associated with the potential error, which may well be insignificant to you, that will work.

Me? I've a prototype differential station built and running at home. I've got a deal to trade out some RG-213/U cable repair for accurate subcentimeter surveying of 2 points at my house for the testing! The 2 nearest "reference points" are not particularly usefu to me.

73, Gerry N5JXS

284. Re: [APRSSIG:1234] FW: Re: AUTOMATIC CONTROL & APRS USERS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 15 May 1995 00:58:45 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505150558.AAA22267@solar.cs.tamu.edu>
Rendered body type: text/plain

Tim Smith sez:

>

>

> >>Who knows? One day we may all be using junked analog cellphones tuned
> >>to 902 Mhz for APRS!

>

> Hey John...now that's an interesting thought! Wonder how we could use
> todays cellular network to augment the packet network? The discussion on

Well, since I've been doing some work with some SMR and older cell radios for linking projects, I thought I might respond. Plan, simply, on using 2 radios, one as a transmitter, one as a receiver, at each site. The 45 MHz offset is gonna kill you, and I've been unsuccessful at changing that and keeping the radio functional.

73, gerry N5JXS
gerry@cs.tamu.edu

285. Re: [APRSSIG:1217] AUTOMATIC CONTROL & APRS USERS

From: JKANDEL@umiami.ir.miami.edu
Date: Mon, 15 May 1995 10:18:13 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HQJ1A7816UA5VZY0@umiami.ir.miami.edu>
Rendered body type: text/plain

Steve,

Expanding the bands used for APRS is an interesting thought, but there is also a liability - dilution of assets. If we are to use multiple HF bands then we must also consider scanning all of those frequencies and making a composite map of all users - assuming of course that one would want to track all users in the world simultaneously. But any way you look at it, coordination of APRS becomes considerably more difficult.

Joel, KI4T
jkandel@gate.com

286. GPS Rx's

From: paul@paccomm.com
Date: Mon, 15 May 95 09:30:31 UTC
To: aprssig@tapr.org
Message-ID: <3662@paccomm.com>
Rendered body type: text/plain

Hi again. I don't think Gerry Creager was really comparing like with like when talking of Avionic receivers. These are a breed apart and certainly perform better.....
Has anybody noticed a really weird thing?
I am convinced that when it rains the GPS receive is better!
I've seen this many times here in Tampa during the daily thunderstorms. Somebody of high IQ doubted this very much until a storm started and he saw the effect in front of his eyes!
I have no explanation of this because water should only be able to add path LOSS. Very strange!
Regards, Paul.

Paul Evans, W4/G4BKI paul@paccomm.com
+1 (813) 874-2980 Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm.
I don't surf the internet, I SAIL IT!
Captain of S/V "Spindrift" (Catalina 36), Dunedin, FL.
PacComm Packet Radio Systems, Inc., 4413 N. Hesperides St., Tampa, FL 33614-7618

287. Re: PVT-6 version numbers

From: ALLER@mail.syntron.com
Date: Mon, 15 May 95 11:03:10 CST
To: John Maca <jmaca@phoenix.phoenix.net>, amsat-bb@amsat.org,
aprssig@tapr.org, blt@hp2.aws.waia.com
Message-ID: <9504158005.AA800560990@MAIL.SYNTRON.COM>
Rendered body type: text/plain

I forwarded your message to Tom Clark.
Our mail hiccupped over the weekend and I'm not sure
if you got my text writeup so here it is again:

The Clear Lake Amateur Radio Club NOSTS-2 Balloon Flight - de W5SXD

13 May 1995, Sugar Land, Texas

The Clear Lake Amateur Radio Club (CLARC) launched their second balloon in the Near Outer Space Transportation System (NOSTS) series today from Wharton, Texas, about 50 miles west of Houston.

Project leaders, John Maca, AB5SS, and Dan Feedback, KJ5MX, and others burned the midnight oil for several weeks prior to the launch preparing for a great Saturday of amateur activity. The CLARC group and many other local hams arrived in Wharton early Saturday morning after the weather was declared acceptable for a launch. Last minute tweaking and adjusting took most of the morning.

The balloon was ready to go shortly after one PM and the FAA gave launch approval for 3:30 PM. While several of the experiments had last minute problems, the GPS packet radio subsystem worked quite well, reporting the package position and allowing hams in the southeast part of Texas to use the digipeater. The GPS downlink was linked into several ground systems including APRS. Many APRS mobile units were employed, relaying through the balloon born system. Several stations used the DeLorme Map Expert package and during the recovery, and the local ATV repeater was showing street maps uplinked by John, WB5CHV, around the area in Pasadena, Texas where the balloon package landed. The local fox hunt folks and the GPS system produced good results in the recovery, locating the package within several hundred feet.

The package reached an estimated altitude of about 100,000 feet. Unfortunately, the GPS data clamped altitude at 60,000 feet, so for a while, the real position was not known. But after the balloon burst, and the altitude came back down below 60,000 feet, the GPS led the recovery team to the package. The parachute and attached package hit a power line and the package fell to the ground. A passing local resident picked up the package, put it into his van, and drove about a half mile to his house. He took the package inside his house but, since the GPS system was still operating, the recovery team located it within an hour.

The tracking system here at W5SXD worked well, reading the GPS messages from the package, calculating elevation, azimuth, and range to 12 cities in the area

and then sending status packets back through the digipeater in the package. A complete log of all this packet activity has been uploaded to various sites as NOSTS2.zip.

The GPS system consisted of a Motorola PVT6 GPS engine driving a Kantronics KPC-3. In a conversation with Tom Clark, W3IWI, it was determined that the particular PVT6 may not have had the correct version software. The version flown had a software government imposed limit of 60,000 feet. Newer software versions are said to have had this limit removed so anyone planning on flying this engine should check their version.

The Houston Balloon Launch Team led by Andy MacAllister, WASZIB, who are planning the launch of their tenth package, BLT-10, on 15 July 1995, were present at the launch in force. They enjoyed being spectators and took lots of notes that will be helpful in their flight. They are planning a similar GPS subsystem so the NOSTS-2 flight provided a good test run for tracking and recovery methods. Stay tuned ...

Richard Allen, w5sxd@amsat.org

Subject: PVT-6 version numbers
Author: John Maca <jmaca@phoenix.phoenix.net> at INTERNET_MAIL
Date: 95-05-15 10:48

Hi Richard,

Here is the info on the PVT-6 that flew on NOSTS-2.

COPYRIGHT 1991-1992 MOTOROLA, INC.
SFTW P/N # 98-P39949M
SOFTWARE VER # 2
SOFTWARE REV # 1
SOFTWARE DATE 24 NOV 1992
MODEL # PVT601N322
..
..
MANUFACTUR DATE 330AMA854

The unit that I was going to fly (plastic case) is almost identical except the manufacture date is 304AMA168.

Please let me know what you find out.

Thanks,

John

288. APRS and DIRECTION FINDING

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 15 May 1995 12:05:59 -0400 (EDT)
To: aprsig@tapr.org
Message-ID: <Pine.SUN.3.91.950515114601.4087F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Since the early days of APRS, I have always felt that APRS was good for 3 traditional HAM activities. Tracking, WX and DF. Apparently Tracking and WX are alive and well, but I have received 0.0 feedback that anyone is using APRS for direction finding.

It seems that APRS is ideally suited for true direction finding, and I put in everything I could think of to improve the process. But I am still waiting for feedback before I do any more. I am not complaining, just curious, why DFing has not risen to its full potential. Here are several stream-of-consciousness un related thoughts:

First, no need for EVERYONE to reply with opinions on APRS's POTENTIAL for DF, I am just interested on feedback from people who actually do DFing...

1) Is DFing truly only a competitive sport? Is group DFing not being done, simply because the tools were not there in the past, so there is NO infrastructure (or group involvement)?

2) Is there something cumbersome and incorrect in the APRS DF functions?

3) Is ANYONE using the DF interface? I have recorded about a Dozen or so DF registrations?

4) I suspect that tying all the APRS, GPS, COMPASS, and TNC into the PC is going to need some more debugging... So If you have actually hooked it all up, I need to know if it works! hi hi There are some relatively complex issues as to corralating all this data, so when someone reallly starts trying to make it work in the field, on the fly, lemme know.

5) Item 4 above may get so complex, that it will be hard to forsee all of the possible conditions, and it may just work better for the operator to do it all by the seat-of-the-pants and eyeball. Use APRS as the record keeper.

6) But despite 4 and 5, APRS should be perfect for the Sunday Afternnon ARM-CHAIR Dfer to contribute to a group localization. Then he can continue with the lawn work and let the FOX hounds move in for the kill.

So, in conclusion, I never intended APRS to be the full fledged on-the-go fully automatic DF integrator. It has the potential, and I am willing to work toward that objective, but in the meantime, APRS should have provided a two-fold multiplier in the number of stations participating in GROUP localization of a fox:

1) ANYONE can play due to the OMNI-DF and FADE-CIRCLE implementations

2) GROUP participation in a fox hunt is over and done with in the first 5 minutes of the event, leaving stations free for the rest of the day to do familiy and other things.

ANY COMMENTS?

289. DF validation number notes

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 15 May 1995 11:32:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950515112550.4087C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 14 May 1995 MLE7083@aol.com wrote:

> Bob, what happened to the DF command in ops? Can't even get it to ask me for
> my DF password.....help

APR REPLY: I hope the DF command still works..

What is different recently, is that I got rid of that irritating DF V# prompt. Just like the GPS and WX options, the extra DF V# is only needed if you connect DF HARDWARE to your other COMM port. Initially, when I first invented the FADE-CIRCLE technique, I thought it was such a powerful DF tool (but that it could also clutter everyones screens in a hurry!) that I reserved its use to only one use per user, unless the person was validated for DF. It turns out, that I still have not heard of ANYONE using APRS for DF, so I went ahead and removed that restriction, and therefore now, I do NOT need to ask for a DF number UNLESS the user wants to activate a DOPPLER DF unit on his COMM port.

Pleas confirm that the OPS-DF command DOES still work. See my next posting about DF....

290. Texas Balloon Flight

From: ALLER@mail.syntron.com
Date: Mon, 15 May 95 10:34:55 CST
To: amsat-bb@amsat.org, blt@hp2.aws.waii.com, aprssig@tapr.org
Message-ID: <9504158005.AA800559295@MAIL.SYNTRON.COM>
Rendered body type: text/plain

The Clear Lake Amatuer Radio Club NOSTS-2 Balloon Flight - de W5SXD

13 May 1995, Sugar Land, Texas

The Clear Lake Amatuer Radio Club (CLARC) launched their second balloon in the Near Outer Space Transportation System (NOSTS) series today from Wharton, Texas, about 50 miles west of Houston.

Project leaders, John Maca, AB5SS, and Dan Feeback, KJ5MX, and others burned

the midnight oil for several weeks prior to the launch preparing for a great Saturday of amateur activity. The CLARC group and many other local hams arrived in Wharton early Saturday morning after the weather was declared acceptable for a launch. Last minute tweaking and adjusting took most of the morning.

The balloon was ready to go shortly after one PM and the FAA gave launch approval for 3:30 PM. While several of the experiments had last minute problems, the GPS packet radio subsystem worked quite well, reporting the package position and allowing hams in the southeast part of Texas to use the digipeater. The GPS downlink was linked into several ground systems including APRS. Many APRS mobile units were employed, relaying through the balloon born system. Several stations used the DeLorme Map Expert package and during the recovery, and the local ATV repeater was showing street maps uplinked by John, WB5CHV, around the area in Pasadena, Texas where the balloon package landed. The local fox hunt folks and the GPS system produced good results in the recovery, locating the package within several hundred feet.

The package reached an estimated altitude of about 100,000 feet. Unfortunately, the GPS data clamped altitude at 60,000 feet, so for a while, the real position was not known. But after the balloon burst, and the altitude came back down below 60,000 feet, the GPS led the recovery team to the package. The parachute and attached package hit a power line and the package fell to the ground. A passing local resident picked up the package, put it into his van, and drove about a half mile to his house. He took the package inside his house but, since the GPS system was still operating, the recovery team located it within an hour.

The tracking system here at W5SXD worked well, reading the GPS messages from the package, calculating elevation, azimuth, and range to 12 cities in the area and then sending status packets back through the digipeater in the package. A complete log of all this packet activity has been uploaded to various sites as NOSTS2.zip.

The GPS system consisted of a Motorola PVT6 GPS engine driving a Kantronics KPC-3. In a conversation with Tom Clark, W3IWI, it was determined that the particular PVT6 may not have had the correct version software. The version flown had a software government imposed limit of 60,000 feet. Newer software versions are said to have had this limit removed so anyone planning on flying this engine should check their version.

The Houston Balloon Launch Team led by Andy MacAllister, W4SZIB, who are planning the launch of their tenth package, BLT-10, on 15 July 1995, were present at the launch in force. They enjoyed being spectators and took lots of notes that will be helpful in their flight. They are planning a similar GPS subsystem so the NOSTS-2 flight provided a good test run for tracking and recovery methods. Stay tuned ...

Richard Allen, w5sxd@amsat.org

291. RE: [APRSSIG:1222] Whining

From: "Sadowski, P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Mon, 15 May 95 09:07:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <2FB75FC1@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

DITTO from me for what it's worth... This has been a tremendous effort on the part of these folks and I salute them for doing it... I hope I can make a tiny contribution to this kind of activity sometime...

BTW, anyone seen any APRS data coming outta S Nevada - Las Vegas?
I've been monitoring .79 on 2m and haven't heard a peep... I'm almost got my bugs worked out... (that little itty bitty screw in the mic plug that holds the shell on the plug - shorted pins 1 and 7 together on TWO mic plugs !!!!!
At first I figured it was my soldering technique... but on close inspection with a jewelers loop... it's the "quality" of the plug at fault... hmmm warning for you folks out there... it ohms out ok with the shell off... but no workee when shell on... gave me fits this weekend.....)

My mail program still won't give me the original poster's address here so I really appreciate it when folks put their E-Mail address in their postings..

Aloha
Al

AH6LS
sadowskp@usafcrqs.nellis.af.mil

From: aprssig
To: aprssig
Subject: [APRSSIG:1222] Whining
Date: Sunday, May 14, 1995 2:54AM

I hear an awful lot of whining going on in here. There seems to be a lot of folks who don't appreciate the tremendous effort that goes into writing, debugging, and refining an application (not to mention custom data files separately created to support such an application). There have been very few of you out there to give credit where it is due.

I for one would like to applaud Bob and Keith for the terrific efforts they have put into these applications (Keith is the author of the Mac version for those who haven't figured that out). I would further like to applaud Bob for putting up with a lot of heat from the list. A lot of "too many versions", "this don't work", "I don't like how this looks", "we need this feature". I would also like to thank Keith for jumping in to help Bob, even when the question/comment/complaint had nothing to do with his specific contribution.

Thanks for the work, Bob and Keith. Thanks for the list. And thanks for the bandwidth.

Lets try to be more contructive and less destructive!

Chip Griffin - President of Thames River Apple Users Group
SysOp of The Quarry BBS (203-889-6427)

-----+-----
Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
N1MIE@N10KK.CT.USA | 1:320/301 (fidonet)

292. Re: Error Condition Re:

From: "Bill Houghton" <whoughton@igc.apc.org>
Date: Mon, 15 May 1995 11:26:30 +0000
To: aprssig@tapr.org
Message-ID: <199505151634.JAA06134@igc3.igc.apc.org>
Rendered body type: text/plain

I am trying to subscribe to APRSSIG, but am not having any luck. Can you help me?

293. Re: Texas Balloon Flight

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Mon, 15 May 95 17:04:19 UTC
To: aprssig@tapr.org, blt@hp2.aws.waii.com, amsat-bb@amsat.org,
ALLER@mail.syntron.com
Message-ID: <55137@tomcat.gsfc.nasa.gov >
Rendered body type: text/plain

In his report of the Clear Lake NOSTS-2 balloon flight, Dick Allen, W5SXD said

> The package reached an estimated altitude of about 100,000 feet. Unfortunately,
> the GPS data clamped altitude at 60,000 feet, so for a while, the real position
> was not known. But after the balloon burst, and the altitude came back down
> below 60,000 feet, the GPS led the recovery team to the package.....
>
> The GPS system consisted of a Motorola PVT6 GPS engine driving a Kantronics
> KPC-3. In a conversation with Tom Clark, W3IWI, it was determined that the
> particular PVT6 may not have had the correct version software. The version
> flown had a software government imposed limit of 60,000 feet. Newer software
> versions are said to have had this limit removed so anyone planning on flying
> this engine should check their version.

In a separate message Dick sent me, a post-flight dump of the software configuration said

> SOFTWARE VER # 2
> SOFTWARE REV # 1
> SOFTWARE DATE 24 NOV 1992
> MODEL # PVT601N322

Let me expand on Dick's answer, since I know the PVT6 "ONCORE" receiver fairly well. According to Motorola's documentation and to verbal comments from Mike King (KC7PE, one of Motorola's software gurus), recent software (I believe

beginning with Ver 4.0, and explicitly specified in the Ver 5.x and 6.x Motorola documentation [the most recent version I have seen is 6.1]), the limits are determined only by the platform's velocity.

This limitation relates to the COCOM export rules which limit the sale of GPS receivers that can track high-altitude, rapidly moving platforms (the so-called "anti-scud" rule). As I recall, the mandated limits are 60,000 feet (18.3 km) and about Mach 2. Some manufacturers have chosen to enforce this limit with a logical .OR., such that the receivers change modes if the platform is moving fast OR if it is too high. In the case of the old Motorola code which was flown on this particular balloon, the receiver went into "2-D" mode, locking the altitude at 18300 meters. If the balloon went several km higher, the reported horizontal (Lat/Lon) positions were probably in error by a few km. When the satellite came back down below 18 km, the receiver resumed proper operation. Some of the small receivers (e.g. Trimble) take adopt more hard-nosed "clamp" -- the last Trimble SV-6 I tested reset itself to Sunnyvale, CA when taken above 18 km, so its horizontal positions would have been total bogosity!

Beginning about 2 years ago, Motorola decided they wanted to support the balloon world and re-interpreted the COCOM "anti-scud" rules in the same way as Collins/Rockwell. They noted that the 60kft/Mach 2 limits were specified with a logical AND. As I understand it, they chose to implement the rule by only considering the velocity limit, so these receivers can operate at any altitude providing the speed is low enough. The highest speed I have verified is below Mach 1 (in a commercial airliner), so I cannot comment on precisely what speed limit they have enforced.

Regarding the Motorola PVT6 "ONCORE" receiver, Motorola can upgrade archaic firmware if you send your receiver to them. Anyone needing this service, send me an Email message and I'll tell you the address.

73 de Tom, W3IWI

294. RE: [APRSSIG:1244] Re: PVT-6 version numbers

From: Tim Smith <TSMITH@fibusa.com>
Date: Mon, 15 May 95 14:05:00 PDT
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2FB7BBEA@ipnovell.fibusa.com>
Rendered body type: text/plain

>>> Several stations used the DeLorme Map Expert package and during the recovery,

Does this program support GPS data? Is it the one I see at the computer shows for around \$40?

Thanks,

Tim

295. Re: [APRSSIG:1250] Re: Texas Balloon Flight

From: DKAPLAN@netins.net (David Kaplan)
Date: Mon, 15 May 1995 14:36:35 -0500
To: aprssig@tapr.org
Message-ID: <199505151936.0AA29764@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

>

>Regarding the Motorola PVT6 "ONCORE" receiver, Motorola can upgrade archaic
>firmware if you send your receiver to them. Anyone needing this service,
>send me an Email message and I'll tell you the address.

>

>73 de Tom, W3IWI
Please send the info to DKAPLAN@netins.net

296. Balloon + GPS

From: paul@paccomm.com
Date: Mon, 15 May 95 15:35:18 UTC
To: aprssig@tapr.org
Message-ID: <3712@paccomm.com>
Rendered body type: text/plain

Just a quick comment regarding the speed/altitude limitations. Tom W3IWI was quite right about the different way in which manufacturers apply the criteria. In the case of Trimble we ASK if the GPS will be balloon launched and if so we order the GPS modules with the limitation backed off, namely:

Altitudes will be reported > 60,000ft if velocity is <999knots.
It's my understanding that you are NOT permitted to buy, nor are the
manufacturers allowed to sell, units which allow both conditions to
be broken. 999 knots seems to be the norm for the speed limit.
Regards, Paul.

Paul Evans, W4/G4BKI paul@paccomm.com
+1 (813) 874-2980 Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm.
I don't surf the internet, I SAIL IT!
Captain of S/V "Spindrift" (Catalina 36), Dunedin, FL.
PacComm Packet Radio Systems, Inc., 4413 N. Hesperides St., Tampa, FL 33614-7618

297. Re: [APRSSIG:1252] Re: Texas Balloon Flight

From: Daniel Feeback <feedback@phoenix.phoenix.net>
Date: Mon, 15 May 1995 14:47:43 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950515144701.6973A-100000@phoenix.phoenix.net>
Rendered body type: text/plain

Tom,

Need the address. Thanks in advance. Appreciate it.

Dan, KJ5MX

On Mon, 15 May 1995, David Kaplan wrote:

>
> >
> >Regarding the Motorola PVT6 "ONCORE" receiver, Motorola can upgrade archaic
> >firmware if you send your receiver to them. Anyone needing this service,
> >send me an Email message and I'll tell you the address.
> >
> >73 de Tom, W3IWI
> >Please send the info to DKAPLAN@netins.net
>
>

298. RE: [APRSSIG:1250] Re: Texas Balloon Flight

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Mon, 15 May 95 12:56:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <2FB794EB@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Curiosity got the best of me with a comment in here.... relating to getting
data on a commercial airliner...

>From: aprssig
>To: aprssig
>Subject: [APRSSIG:1250] Re: Texas Balloon Flight
>Date: Monday, May 15, 1995 12:24PM

>operate at any altitude providing the speed is low enough. The highest
>speed I have verified is below Mach 1 (in a commercial airliner), so I
>cannot comment on precisely what speed limit they have enforced.

>73 de Tom, W3IWI

hmm... where did you place the antenna to get good data on an airliner??
I would have thought that the geometry would have been poor at best to
get the data purely from a side facing window... did you get to place the
antenna at/near a cockpit window? Still that would be problematic... I have
my GPS antenna dorsally mounted on my aircraft and still have some problems
depending on satellite geometry.. though rarely - - the dorsal mount was
best
in tests... Did you use two antennas and some sort of an RF summing network
in the feed lines (allowing two antennas on opposite sides of aircraft)? My
curiosity gets me in trouble... maybe the GPS signal gets in through all the
windows satisfactorily... but given my experience with boats, trees, and
bldgs..
I dunno.... Thanks in advance....

Al
AH6LS
sadowskp@usafcrqs.nellis.af.mil

299. Re: [APRSSIG:1251] Re: PVT-6 version numbers

From: ALLER@mail.syntron.com
Date: Mon, 15 May 95 15:27:52 CST
To: aprssig@tapr.org
Message-ID: <9504158005.AA800576872@MAIL.SYNTRON.COM>
Rendered body type: text/plain

>>> Several stations used the DeLorme Map Expert package and during the recovery,

>> Does this program support GPS data? Is it the one I see at the
>> computer shows for around \$40?

>> Thanks, Tim

The entire mobile (GPS & CD) DeLorme package is around \$500 total. The low cost version has no lat/lon stuff ...

Richard Alle, w5sxd@amsat.org

300. Re: Texas Balloon Flight & The Passerby

From: miles@mail.utexas.edu (Miles Abernathy)
Date: Mon, 15 May 1995 15:35:14 -0500
To: aprssig@tapr.org
Message-ID: <v01520c10abdd24e712a3@[128.83.159.101]>
Rendered body type: text/plain

>and attached package hit a power line and the package fell to the ground. A
>passing local resident picked up the package, put it into his van, and drove
>about a half mile to his house. He took the package inside his house but,
>since the GPS system was still operating, the recovery team located it within
>an hour.

Hi Richard!
Did he want the reward?

```
-----
| Miles Abernathy, N5KOB | "I urge you to dream - I did, and one |
| U. of TX, P O Box 7580 | day I found myself standing on the |
| Austin, Texas 78713 USA | surface of the moon." - Gene Cernan |
-----
```

301. Re: [APRSSIG:1250] Re: Texas Balloon Flight

From: alewis <alewis@alewis.demon.co.uk>
Date: Tue, 16 May 1995 20:35:25 GMT
To: aprssig@tapr.org
Message-ID: <98@alewis.demon.co.uk>
Rendered body type: text/plain

In your message dated Monday 15, May 1995 you wrote :

@>
@> In his report of the Clear Lake NOSTS-2 balloon flight, Dick Allen, W5SXD
said
@>
@> > The package reached an estimated altitude of about 100,000 feet.
Unfortunately,
@> > the GPS data clamped altitude at 60,000 feet, so for a while, the real
position
@> > was not known. But after the balloon burst, and the altitude came back
down
@> > below 60,000 feet, the GPS led the recovery team to the package.....
@> >
@> > The GPS system consisted of a Motorola PVT6 GPS engine driving a Kantronics
@> > KPC-3. In a conversation with Tom Clark, W3IWI, it was determined that the
@> > particular PVT6 may not have had the correct version software. The version
@> > flown had a software government imposed limit of 60,000 feet. Newer
software
@> > versions are said to have had this limit removed so anyone planning on
flying
@> > this engine should check their version.
@>
@> In a separate message Dick sent me, a post-flight dump of the software
@> configuration said
@>
@> > SOFTWARE VER # 2
@> > SOFTWARE REV # 1
@> > SOFTWARE DATE 24 NOV 1992
@> > MODEL # PVT601N322
@>

Rendered body type: text/plain

MacAprs 1.5.2 is now up on the TAPR ftp server.

NOTE: You will have to re-enter some of your SETTINGS with this version. The amount of data saved in the PREFERENCES file was increased, and this causes a couple of the values to be messed up. Please check all of your preferences when you first run version 1.5.2.

The new version includes some more support for the Kantronics KAM and also some shortcuts for both Kantronics KAM and the AEA PK-900 and DSP-2232.

It will now also SPEAK bulletins that come in. Before it would only speak messages addressed to you.

Version 1.5.2 also now supports object names with SPACES in them.

This is the first release that actually has the balloon prediction in it. The documentation is being worked on for the balloon stuff, but is not finished at this time. There are several groups that are getting ready to use this so I was being pushed to get it released. In fact, I am going to Wisconsin this weekend (5/20) to use this for a balloon launch.

This version also supports the Ultimeter II data being transmitted directly over the air, and it also the Telemetry data transmitted by the MIM units that Bob has been discussing.

There will be a PowerPC version of 1.5.2 up on the server by the end of the week.

MacAPRS State Maps!!!

I have been getting several requests for the high-res state maps used in MacAPRS. There are only a couple of these included with what gets distributed simply due to the large size that 50 of these maps would add up to.

I have now started to upload these maps to the TAPR ftp site (ftp.tapr.org) they are in a separate folder called MacMaps. I have put several of these there tonight, and will continue until I get all 50 states up there. If you want a state that is NOT there, send me (NOT THE LIST) a message, and I will try to get your request done soon. I hope to have all 50 up there within a week or two. It simply takes time.

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www.ns.rutgers.edu/~ksproul/	908 821-4828 Home

304. Re: [APRSSIG:1184] Re: Help with 8088 laptop

From: Richard Amirault <amirault@max.tiac.net>
Date: Mon, 15 May 1995 21:15:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.NEB.3.91.950515211245.9214B@max.tiac.net>
Rendered body type: text/plain

On Thu, 11 May 1995, Bradley Lee Ambers wrote:

(snip)

- > My suggestion
- > would be to add a prompt at the beginning of the information section
- > when a person first enters his/her information regarding the system
- > they are using. This prompt would ask for a path in which the maps
- > maybe found. In other words it would give the user the ability to
- > use both floppy drive A and B. Lets say you have a disk with the
- > APRS program on it in drive A, when the program prompts you for
- > location of the maps you could type, "B:\maps" or hit enter for a
- > default drive and director this information would be saveable for
- > as all other info is for the registered users. This would
- > give us poor laptop users, and I do mean poor, the capability to use
- > both of the floppy drives and giving us more disk space to add maps

> or other information as it becomes available or as needed.

As an owner of an 8088, dual floppy (no hard drive) laptop I second this request/idea/suggestion.

Richard N1JDU in Boston
amirault@tiac.net

305. Re: [APRSSIG:1243] GPS RxS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 15 May 1995 20:34:08 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505160134.UAA05702@solar.cs.tamu.edu>
Rendered body type: text/plain

paul@paccomm.com sez:

>

> Hi again. I don't think Gerry Creager was really comparing like with
> like when talking of Avionic receivers. These are a breed apart and
> certainly perform better.....

In fact, the Trimble S-Vee-Six CM2 performs better than my Garmin GPS-55AVD Aviation handheld. it's more powerful, has the ability to prefilter some of the dither, and is apparently less subject to wandering about with S/A than either the Motorola engines or the Garmin, IF the filtering is on.

> Has anybody noticed a really weird thing?
> I am convinced that when it rains the GPS receive is better!
> I've seen this many times here in Tampa during the daily thunderstorms.
> Somebody of high IQ doubted this very much until a storm started and
> he saw the effect in front of his eyes!
> I have no explanation of this because water should only be able to
> add path LOSS. Very strange!

What kind of antenna are you using, and how is it mounted. The only rational idea I've developed in the last few minutes is that you're getting better grounding and/or a better plane, thus seeing less multipath reflection.

73, gerry N5JXS

306. Re: [APRSSIG:1251] Re: PVT-6 version numbers

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 15 May 1995 20:47:08 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505160147.UAA05837@solar.cs.tamu.edu>
Rendered body type: text/plain

Tim Smith sez:

>

>

> >>> Several stations used the DeLorme Map Expert package and during the
> recovery,

>

> Does this program support GPS data? Is it the one I see at the computer
> shows for around \$40?

Actually, you're thinking of Street Atlas USA. And, nope, it doesn't support GPS inputs. The product they have that does is MapExpert, for about \$199. Plus the GPS validation costs.

Several of us tried a couple of months ago to convince DeLorme that if they dropped the price and encouraged the ham community to partake they'd probably sell a few more. They didn't think there was any hobbyist out there doing this sort of thing. More's the pity.

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

307. Re: [APRSSIG:1255] Re: Texas Balloon Flight

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 15 May 1995 20:53:39 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505160153.UAA05907@solar.cs.tamu.edu>
Rendered body type: text/plain

Sadowski,P CPT USAF CRQS/RQEN sez:

>
>
> Curiosity got the best of me with a comment in here.... relating to getting
> data on a commercial airliner...
> hmm... where did you place the antenna to get good data on an airliner??
> I would have thought that the geometry would have been poor at best to
> get the data purely from a side facing window... did you get to place the
> antenna at/near a cockpit window? Still that would be problematic... I have
> my GPS antenna dorsally mounted on my aircraft and still have some problems
> depending on satellite geometry.. though rarely - - the dorsal mount was
> best
> in tests... Did you use two antennas and some sort of an RF summing network
> in the feed lines (allowing two antennas on opposite sides of aircraft)? My
> curiosity gets me in trouble... maybe the GPS signal gets in through all the
> windows satisfactorily... but given my experience with boats, trees, and
> bldgs..
> I dunno.... Thanks in advance....

In fact, I've used mine in airliners inadvertently a couple of times, and intentionally once or twice. Your choice of satellites is limited, but will usually give you a solution or so. In fact, dorsal mounting is preferred when possible.

As for a "summing" network, a Wilkenson hybrid will provide adequate signal in most cases, but has not been necessary when I've been playing. Further, a little error in coax length can really confuse signals and timing, in a spread spectrum (essentially pseudo-diversity) environment.

What type of GPS do you fly with, and what kind of aircraft?

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

308. Re: [APRSSIG:1263] Re: PVT-6 version numbers

From: janderson@ram.net (Jack Anderson)
Date: Mon, 15 May 95 22:08:24 GMT
To: aprssig@tapr.org
Message-ID: <15021591.0bdc@ram.net>
Rendered body type: text/plain

>Actually, you're thinking of Street Atlas USA. And, nope, it doesn't support
>GPS inputs. The product they have that does is MapExpert, for about \$199.
>Plus the GPS validation costs.
>
>Several of us tried a couple of months ago to convince DeLorme that if they
>dropped the price and encouraged the ham community to partake they'd probably
>sell a few more. They didn't think there was any hobbyist out there doing
>this sort of thing. More's the pity.

Yep, I have a bone to pick with them too. Street Atlas USA is a great product, and giving it lat/lon display and find capability would have been a trivial matter, but it appears that used that as a carrot to get users to buy Map Expert. Map Expert looks nice but that's a little more than I care to spend for hobby software.

Jack
N4ULS

janderson@ram.net

309. APRS version 6.9 and GGA lock-up

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 15 May 1995 22:42:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950515222424.8419F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

20 lashes! John Kerr finally isolated a problem that two others reported since 6.8a. They said that while driving around with a stand-alone-tracker, that others would report loss of tracking at random times. John correlated it with a BAD NMEA report at the top of the screen.

Sho'nuff. Once APRS detected a BAD NMEA report, it began to reject ALL FURTHER TRACKER POSITS. ARGH!

He reported the bug just hours after I posted the 68e version. SO here I am again, groveling, posting 6.9. The reason for the quick posting is to supersceed the 68 versions ASAP and to get the problem resolved before I go on my anniversary vacation. (she wont let me take a radio to the virgin islands!)

Good news! I found a better way to compile APRS and just chopped off another 32K. Version 6.9 is only 345K compared to a high of 428K a while back. That should make the APRSG(9) version down to about 310K when I get a chance to re-compile it.

Also, I just finished 8 new maps of Florida. These are from the 2,000,000 CD ROM (so they have NO new roads not already posted in the existing FLorida maps, but they do retain much more detail around the coastline, plus they have Rivers, streams, and coun4y lines not currently in the Florida maps. I tried posting them, but had a bad disk. I will post these new maps in SEmaps04.zip when I get a chance...

310. Re: [APRSSIG:1234] FW: Re: AUTOMATIC CONTROL & APRS USERS

From: jgarrett@world.std.com (John Garrett)
Date: Mon, 15 May 1995 22:06:26 -0400
To: aprssig@tapr.org
Message-ID: <YY0klmPA4E0E065yn@World.std.com>
Rendered body type: text/plain

"

" >>Who knows? One day we may all be using junked analog cellphones tuned
" >>to 902 Mhz for APRS!

"

" Hey John...now that's an interesting thought! Wonder how we could use
" todays cellular network to augment the packet network? The discussion on
" the sig last week about using the internet was interesting...but a notebook
" on the move, cellular modem and free off-peak airtime in the Cell One could
" be a deadly combination! I don't want to steal any of the limelight from

Hey, whatever works, right? I don't care if the radio I'm talking to is
connected to the internet or AO-27, and if it does the job, should I
care? I don't really think so. I have fun fooling around with radios
and if someone with a cellphone can add to the fun, why not? You never
know when fooling around like that will lead to something useful! No
flames from me.

I did see a couple GPS items at Deerchester but no time/\$. I ran up
with a tnc for sale, sold it and paid wa2sca for the Moto gps engine I'd
had him pick up at Dayton! Then I took my GR0L and streaked home, just
in time to go to work at the Boston Garden. 73

John
WN9T

311. Re: [APRSSIG:1245] APRS and DIRECTION FINDING

From: jgarrett@world.std.com (John Garrett)
Date: Mon, 15 May 1995 22:21:09 -0400
To: aprssig@tapr.org
Message-ID: <Lm0klmPA42eP065yn@World.std.com>
Rendered body type: text/plain

"

" 1) Is DFing truely only a competitative sport? Is group DFing not
" being done, simply because the tools were not there in the past, so there
" is NO infrastructure (or group involvement)?

We're doing it in the Boston area. Most teams and individuals are
learning about APRS, and some use it, but none for "fun"
foxhunting...yet. I have used APRS to help localize "problems", and it
works well, very well.

"

" 2) Is there something cumbersome and incorrect in the APRS DF functions?
"
Not that I've been able to tell.

" 3) Is ANYONE using the DF interface? I have recorded about a Dozen or so
" DF registrations?

Not yet, but like AT&T ads....we WILL...!

"

"
[snippage]

" 6) But despite 4 and 5, APRS should be perfect for the Sunday
" Afternoon ARM-CHAIR DFER to contribute to a group localization. Then he
" can continue with the lawn work and let the FOX hounds move in for the kill.
That's one thing I want to implement here in Boston, in a big way. We
have several guys around town with 2m/70cm beams and a little time on
their hands. I'd love to get them all turned on to APRS so that they
could contribute in a vital way to the local DF efforts. They're around
and willing to help usually, but it would be lots easier if they could
put in the data themselves, rather than having to phone them up to get
bearings. The phone-up-for-bearing method works ok _IF_ you know your
DF buddy's LAT/LONG. Then you can ADD a DF object to your map, with
bearing and quality, and it gets uplinked to the net! Just my thoughts.
[more snippage]

John
WN9T

312. Re: [APRSSIG:1241] Re: FW: Re: AUTOMATIC CONTROL & APRS USERS

From: jgarrett@world.std.com (John Garrett)
Date: Mon, 15 May 1995 22:17:59 -0400
To: aprssig@tapr.org
Message-ID: <Nj0klmPA4o6A065yn@World.std.com>
Rendered body type: text/plain

" Tim Smith sez:
" >
" >
" > >>Who knows? One day we may all be using junked analog cellphones tuned
" > >>to 902 Mhz for APRS!
" >
" > Hey John...now that's an interesting thought! Wonder how we could use
" > today's cellular network to augment the packet network? The discussion on
"

" Well, since I've been doing some work with some SMR and older cell radios for
" linking projects, I thought I might respond. Plan, simply, on using 2 radios,
" one as a transmitter, one as a receiver, at each site. The 45 MHz offset is
" gonna kill you, and I've been unsuccessful at changing that and keeping the
" radio functional.
Hi Gerry:
We're probably starting to get off topic, but you're probably right.
The good thing is, in about 5 years you won't be able to go to the
junkyard without tripping on about a dozen of em!
John
WN9T

313. Re: [APRSSIG:1269] Re: FW: Re: AUTOMATIC CONTROL & APRS USERS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 15 May 1995 23:30:20 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505160430.XAA07201@solar.cs.tamu.edu>
Rendered body type: text/plain

> Hi Gerry:
> We're probably starting to get off topic, but you're probably right.
> The good thing is, in about 5 years you won't be able to go to the
> junkyard without tripping on about a dozen of em!
> John
> WN9T

Problem is, they're _NOT_ easy to work with. Even if they are plentiful, it's
a pain, so I doubt too many folks will do much with them. Even now, having
invested time and effort, I find 'em a problem to get motivated for. Over
time, I expect to make the linking apps work, but I suspect the new 1.2 GHz
repeater transverter project will be completed well before the 900 MHz link...
which is too bad, since I really need the link first.

73, gerry
N5JXS

314. Re: [APRSSIG:1266] APRS version 6.9 and GGA lock-up

From: Jeff Ward <jward@marlin.gulf.net>
Date: Mon, 15 May 1995 23:59:59 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.90.950515235757.229C-100000@marlin.gulf.net>
Rendered body type: text/plain

On Mon, 15 May 1995, Robert Bruninga wrote:

>
> Also, I just finished 8 new maps of Florida. These are from the
> 2,000,000 CD ROM (so they have NO new roads not already posted in the
> existing Florida maps, but they do retain much more detail around the
> coastline, plus they have Rivers, streams, and coun4y lines not currently
> in the Florida maps. I tried posting them, but had a bad disk. I will
> post these new maps in SEmaps04.zip when I get a chance...
>
>

If only I'd known this about 6 weeks ago...we've been drawing our own :-) !

Jeff, N4TRY
SKYWARN Coordinator, FL Panhandle

315. Re: [APRSSIG:1245] APRS and DIRECTION FINDING

From: Emmet2@aol.com
Date: Tue, 16 May 1995 02:15:17 -0400
To: aprssig@tapr.org
Message-ID: <950516021048_120232636@aol.com>
Rendered body type: text/plain

Bob, I am VERY interested in DFing with APRS. I only see several major advantages of it.

1. Your location is automatically placed on a Map along with your DF information. This makes it easy to see all your information in one spot.
2. It becomes easy for everyone to share their information away (RF wise) from the interference (if it is a real hunt).
3. It is much easier to visualize, and much more accurate (or less prone to error) than manual map plotting.

I see several drawbacks or problems:

1. There doesn't seem to be any easy or practical way to integrate a GPS, a TNC, and a DFing device (doppler or otherwise) all into a single portable computer. At least on the Mac side of things you are probably limited to two of the above (although there are other options).
2. If you are in a competitive hunt you don't want to share your info with other hunters (so you just turn off the radio and have the tnc set to monitor its own transmissions, this works with KPC-3s anyway).
3. It is cumbersome and expensive to get an setup to be able to go mobile with this sort of setup.

Locally we have had a few 'group' hunting events. In fact, our last was one where we had people start from home. It only took two hours for them to find us, and they only took two bearings apiece. It might have gone quicker if they were using APRS and could see each other's data immediately. Or they could have had a 'net control' who entered the data for them (which they could have monitored on mobile but silent aprs system, or could have taken directions from the net control as to where to go). I am EXTREMELY interested in making this all work. Unfortunately I have YET to make the DF plotting work on any version of APRS I have tried (I am a Mac user).

PLEASE keep up the good work, and perhaps by later this week (I have Wed and Thu off) I will be able to make more specific comments and recommendations.

Thanks!
Chip Griffin - President of Thames River Apple Users Group
SysOp of The Quarry BBS (203-889-6427)

-----+-----
Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
N1MIE@N10KK.CT.USA | 1:320/301 (fidonet)

316. Re: [APRSSIG:1266] APRS version 6.9 and GGA lock-up

From: DEANG@mail.syntron.com
Date: Tue, 16 May 95 09:01:14 CST
To: aprssig@tapr.org
Message-ID: <9504168006.AA800640074@MAIL.SYNTRON.COM>
Rendered body type: text/plain

I have noticed that while using 6.8e, all RMC data from the Motorola PVT6 is considered "BAD NMEA"!! ALL of the GGA and GLL strings work everytime, no problem...but the RMC seems to always be considered "BAD".

```
\\//
(..)
-oo0-( )-0oo-----
| George Dean KC5KGE 2946.18N 9545.76W DEANG@mail.syntron.com |
-----
```

317. NWS WX symbols and Watch Boxes

From: Jeff Ward <jward@marlin.gulf.net>
Date: Tue, 16 May 1995 12:29:07 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.90.950516122132.10087A-100000@marlin.gulf.net>
Rendered body type: text/plain

Hi Bob:

The National Weather Service has 100 weather symbols that they use. I've narrowed the list down to 17...should be enough to describe what's going on just about anywhere as far as the weather goes. I'd like to send you this list for your perusal. Most of us here in North Florida would prefer to use them rather than the current APRS symbols. What's the best way for me to send them to you...electronically or via snail mail?

Also, I just checked out the watch box feature in 68e. Have you thought any more about not truncating them at 100 miles or about making them true boxes instead of lines? Just curious. Thanks for all the work...lotsa folks around here are really impressed with APRS, including area County EOC's. Keep up the good work!

73,
Jeff Ward, N4TRY
SKYWARN Coordinator, FL Panhandle

318. Robert Bruninga DF-Bearing Line

From: wnolle@fly.HiWAAY.net
Date: Tue, 16 May 95 13:32:11 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950516133624.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

Bob the DF-Bearing line problem is still their in Ver APRS69.
It will not show under the 4 mile range, figured you wanted to know.
I had realy hoped this problem would be solved, O-well next time.

William Nolle (KE4EER)
wnolle@hiwaay.net
KE4EER@K4BFT.#NOAL.AL.USA.NOAM

319. Re: [APRSSIG:1275] Robert Bruninga DF-Bearing Line

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 16 May 1995 17:05:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950516170028.7560E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 16 May 1995 wnolle@fly.HiWAAY.net wrote:

> Bob the DF-Bearing line problem is still their in Ver APRS69.
> It will not show under the 4 mile range, figured you wanted to know.

APR REPLY: Yes, there still is a limit to how far I can draw it from the original location of the DF station. But I changed it from 2 screens to at least 4 (I thought). So if the DF station is 32 miles away, then, yes, the DF bearing line will not extend 8 screens into a 4 mile scale zoomed in to the location of a fox 32 miles away. No one's beam is that accurate anyway.

For W.Nolle: Please confirm if I have at least improved it by a factor of 2 or more from what it used to be. Thanks for the report.

320. Info wanted

From: WB8SKP@aol.com
Date: Tue, 16 May 1995 19:21:08 -0400
To: aprssig@tapr.org
Message-ID: <950516192105_121027457@aol.com>

Rendered body type: text/plain

Hello all. I get NETSIG and BBSSIG in the Digest form. Is APRSSIG available in Digest form too? If so what do I need to do to get APRSSIG that way too? Thank you for your help.

73 ---- Denis WB8SKP@AOL.COM

321. Re: [APRSSIG:1276] Re: Robert Bruninga DF-Bearing Line

From: jgarrett@world.std.com (John Garrett)
Date: Tue, 16 May 1995 20:43:16 -0400
To: aprssig@tapr.org
Message-ID: <aQKklmPA46t3065yn@World.std.com>
Rendered body type: text/plain

"

" APR REPLY: Yes, there still is a limit to how far I can draw it from the
" original location of the DF station. But I changed it from 2 screens to
" at least 4 (I thought). So if the DF station is 32 miles away, then,
" yes, the DF bearing line will not extend 8 screens into a 4 mile scale
" zoomed in to the location of a fox 32 miles away. No one's beam is that
" accurate anyway.

Lines: 10

Bob, don't forget! Lots more goes into DFing than trusting some silly
beam! Don't forget the big cpu between the ears. I regularly see
people make complex position analyses with limited data, and using APRS
and other tools, find the head-mounted processor to be pretty accurate,
but probably less repeatable than the yagi.

John
WN9T

322. Re: [APRSSIG:1227] Re: PCI GPS

From: KeithB10@aol.com
Date: Wed, 17 May 1995 04:38:13 -0400
To: aprssig@tapr.org
Message-ID: <950517043809_121611103@aol.com>
Rendered body type: text/plain

Thanks for the info on the GPS for the powerbook 500c... I will give them a
call and see what the price is today.....

Keep up the good work and thanks for the time spent on APRS

KAOVVX
Keith in Kansas City

323. Re: [APRSSIG:1279] Re: PCI GPS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 17 May 95 7:01:56 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.800708516.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

I saw you on APRS yesterday.. Only got one or two packets, and did not get a
POSITION report, but I did see some.. GREAT!

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

324. Purchased GPS, Need Help

From: ChicagoWx@aol.com
Date: Wed, 17 May 1995 07:36:38 -0400
To: APRSSIG@tapr.org
Message-ID: <950517073631_121663502@aol.com>
Rendered body type: text/plain

Hi,

I may have jumped the gun as purchasing a GPS but I have a couple of days to
return it, I paid just under \$299 for the Magellan GPS Navigator its called
the Trailblazer, after reading the book, I was happy to see it has NMEA 0183
output which I guess I would want for APRS... This is the Technical Notes /
Specifications

Operating Temperature: 14 to 140 Storage -40 to 167

Speed Limit: 951 MPH (1530 Kph)
Elevation limit: 57414
Time to first fix: 2 minutes or less (cold Start) 40 seconds or less

(warm Start)
after memory loss 15 minutes or more
update rate every second

And it has 3 different NMEA strings...

- a) APA, GLL, BWC, VTG
- b) RMC, RMB
- c) GLL, GGA, APB, VTG, BWC

I was wondering what these abbreviations mean, and which one would be used with a GPS ready TNC? My next question is, they sell a Data/power cable for the NMEA for about 50 dollars, do I need this, I keep seeing diagrams for cables, and was told to build one, but do I still need this cable in conjunction with building one, or does this cable they sell hook into a RS-232? I just need to know what else I need to purchase.... Also they sell a remote cable for the antenna, That I am not sure where to mount, cause they have several different versions of this remote antenna mounting stuff, magmount, but my car is all polymer, unless it goes on the hood or trunk of my Saturn. Your input on helping me understand how my GPS works, and if its a good unit, or if I should still consider another version, let me know, the accuracy seems good so far on this one. I like everything it does, so let me know if the Garmin 45 does anything that Im not getting on here... /cause again, I have a couple of days to return...
Ron

325. Re: [APRSSIG:1242] Re: AUTOMATIC CONTROL & APRS USERS

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 17 May 1995 10:10:07 -0400 (EDT)
To: JKANDEL@umiami.ir.miami.edu
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9505171001.A19220-0100000@bcfreenet>
Rendered body type: text/plain

Awe com'on Joel. Where did you ever get the notion that ham activities were difficult to coordinate?

(73)

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Mon, 15 May 1995 JKANDEL@umiami.ir.miami.edu wrote:

> Steve,
> Expanding the bands used for APRS is an interesting thought, but there is
> also a liability - dilution of assets. If we are to use multiple HF bands
> then we must also consider scanning all of those frequencies and making a
> composite map of all users - assuming of course that one would want to
> track all users in the world simultaneously. But any way you look at it,
> coordination of APRS becomes considerably more difficult.
> Joel, KI4T
> jkandel@gate.com
>

326. Garmin GPS 45 connectors (fwd)

From: jgarrett@world.std.com (John Garrett)
Date: Wed, 17 May 1995 10:54:11 -0400
To: aprssig@tapr.org
Message-ID: <JuWklmPA4Uj0065yn@World.std.com>
Rendered body type: text/plain

[headers and stuff deleted]

From: rwf@mindspring.com (rwf)
Subject: Re: More Garmin 45 Technical Info
Date: Wed, 17 May 1995 01:35:55 -0400

I have already got the "official" cable- but have been following this thread. At a recent trip to a *giant* Ham Radio convention/flea market in Dayton Ohio, I decided to try to locate this DIN connector that supposedly worked OK on the Garmin 45.

It took about 10 minutes to locate a vendor selling an 8 pin DIN socket that was designed to mount on the end of a wire (an "inline" connector). This socket had a keying slot and had several more pins than required. When the keying slot was lined up normally, 4 of the socket pins fit perfectly onto the Garmin pins. No problem with diameter or anything else. Solder four quick wires on and you have the Garmin cable.

How much more simple could it be? The socket was a dollar at the flea market and the time to solder was less than a minute. I could not locate this connector at Radio Shack, though. You might have to try a "real" :) Electronics store.

The pin layout (Sorry I am not an artist) A 7 pin socket with no center pin also works:



Ralph Fowler
Atlanta, GA

327. NewComer

From: "Rafael A. Pena" <ASMEM102@SIVM.SI.EDU>
Date: Wed, 17 May 95 11:13:00 EDT
To: <aprssig@TAPR.ORG>
Message-ID: <199505171516.KAA17366@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

I just subscribe to this list and wanted to introduce myself as a new ham on the field of APRS. I am not too familiar yet but am learning the system slowly. I leave in the area of Hyattsville, Maryland. Anyone here from my area?

Thank you for reading. 73s - Rafael A. Pe~na / KA30YW

328. Garmin 75 and KPC-3??

From: Bob_Fairbairn-C12509@email.mot.com
Date: 17 May 95 10:16:40 -0600
To: aprssig@tapr.org
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>
Rendered body type: text/plain

Anybody using the Garmin 75 and a KPC-3 for stand-alone tracking? I want the GPS display in the car and to have the KPC-3 talk out to the APRS net. The Garmin pumps out a bunch of messages every 2 seconds including GGA, RMC, VTG,....

KF90A

329. NMEA Standards?

From: Tim Smith <TSMITH@fibusa.com>
Date: Wed, 17 May 95 11:18:00 PDT
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2FBA3805@ipnovell.fibusa.com>
Rendered body type: text/plain

>>It supports NMEA 0180, 0182 and 0183, ver 1.5 and 2.0, among others.

Can anyone explain the differences in the above standards? (Or point to an FAQ or files location that explains them?)

Thanks,

Tim N1BTQ

330. Re: [APRSSIG:1286] NMEA Standards?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 17 May 1995 12:35:26 -0500
To: aprssig@tapr.org
Message-ID: <v01510100abdfde3519a6@[199.1.11.177]>
Rendered body type: text/plain

```
>>>It supports NMEA 0180, 0182 and 0183, ver 1.5 and 2.0, among others.
>
>Can anyone explain the differences in the above standards? (Or point to an
>FAQ or files location that explains them?)
>
>Thanks,
>
>Tim N1BTQ
```

```
-----
Peter Bennett  bennett@triumf.ca posted this and I found it to be a good
start for the GP codes.
```

```
Bob KCSEJK Dallas  kc5ejk@onramp.net
-----
```

NMEA-0183 sentences produced by a Garmin GPS-65

If you know of differences or similarities to other Garmin models, please advise me (bennett@triumf.ca) and I will add the info to this file.

This data was collected Sat Nov 19, 1994, at about 14:54 PST (Z +8)
The boat was stationary.

The following sentences are each sent once every two seconds, except for GPR00 and GPWPL. When a route is active, GPWPL is sent once every two seconds, reporting each waypoint in the route in sequence, then GPR00 is sent once, and the sequence repeats.

Characters following the "*" are a checksum. Checksums are optional for most sentences, according to the standard. Garmin includes checksums on all sentences.

\$GPVTG,054.7,T,034.4,M,000.5,N,000.9,K*47

Course made good, 054.7 degrees True, 034.4 degrees Magnetic
Speed made good, 000.5 Knots, 000.9 Kilometers/hr

\$GPRMC,225446,A,4916.45,N,12311.12,W,000.5,054.7,191194,020.3,E*68

225446 Time of fix 22:54:46 UTC
A Navigation receiver warning A = OK, V = warning
4916.45,N Latitude 49 deg. 16.45 min North
12311.12,W Longitude 123 deg. 11.12 min West
000.5 Speed over ground, Knots
054.7 Course Made Good, True
191194 Date of fix 19 November 1994
020.3,E Magnetic variation 20.3 deg East

\$GPRMB,A,0.66,L,003,004,4917.24,N,12309.57,W,001.3,052.5,000.5,V*0B

A Data status A = OK, V = warning
0.66,L Cross-track error, steer Left to correct
003 Origin waypoint ID
004 Destination waypoint ID
4917.24,N Destination waypoint latitude 49 deg. 17.24 min. N
12309.57,W Destination waypoint longitude 123 deg. 09.57 min. W
001.3 Range to destination, nautical miles
052.5 Bearing to destination
000.5 Velocity towards destination, knots
V Arrival alarm A = arrived, V = not arrived

\$GPBWC,225444,4917.24,N,12309.57,W,051.9,T,031.6,M,001.3,N,004*29

225444 UTC time of fix 22:54:44
4917.24,N Latitude of waypoint
12309.57,W Longitude of waypoint
051.9,T Bearing to waypoint, degrees true
031.6,M Bearing to waypoint, degrees magnetic
001.3,N Distance to waypoint, Nautical miles
004 Waypoint ID
Bearing and distance are calculated along a great circle

\$GPWPL,4917.16,N,12310.64,W,003*65

4917.16,N Latitude of waypoint
12310.64,W Longitude of waypoint
003 Waypoint ID

When a route is active, this sentence is sent once for each waypoint in the route, in sequence. When all waypoints have been reported, GPR00 is sent in the next data set.

\$GPR00,MINST,CHATN,CHAT1,CHATW,CHATM,CHATE,003,004,005,006,007,,,*05

List of waypoint IDs in currently active route

(I have to do further tests to see what actually happens when navigating a route and passing a waypoint - don't know whether all route waypoints are listed, or just those still to come.)

(I assume, but haven't proved, that when navigating to a single waypoint, a WPL sentence will be sent every two seconds, without an R00 sentence)

\$GPGLL,4916.45,N,12311.12,W*71

4916.45,N Present latitude
12311.12,W Present longitude

GPXTE,A,A,0.67,L,N*6F

A General warning flag V = warning (LoranC Blink or SNR warning)
A Not used for GPS (LoranC cycle lock flag)
0.67 cross track error distance
L Steer left to correct error (or R for right)
N Distance units - Nautical miles

The following are Garmin proprietary sentences.

"P" denotes proprietary, "GRM" is Garmin's manufacturer code, and "M" or "Z" indicates the specific sentence type.

PGRMZ,93,f,3*21

93,f Altitude in feet
3 (unknown - doesn't appear to change)
This sentence shows in feet, regardless of units shown on the display.

PGRMM,NAD27 Canada*2F

Currently active horizontal datum

PSLIB,,,J*22

I don't know what this means. I think I have seen another letter, or a character in one of the empty fields, but haven't saved that data. According to the standard, it is a proprietary sentence for someone other than Garmin, but the information I have doesn't list "SLI" as a manufacturer ID.

Peter Bennett
bennett@triumf.ca

331. Re: [APRSSIG:1281] Purchased GPS, Need Help

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 17 May 1995 13:38:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950517133544.13793B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 17 May 1995 ChicagoWx@aol.com wrote:

> I may have jumped the gun as purchasing a GPS but I have a couple of days to
> return it, I paid just under \$299 for the Magellan GPS Navigator its called
> the Trailblazer, after reading the book, I was happy to see it has NMEA 0183
>
> And it has 3 different NMEA strings...
> a) APA, GLL, BWC, VTG
> b) RMC, RMB
> c) GLL, GGA, APB, VTG, BWC

APR REPLY: You will want to use the RMC data. Hook the output to your PC at 4800 baud and verify that you get strings beginning with \$GPRMC.....

332. Washington Puget Sound map

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 17 May 1995 13:46:30 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950517134029.13793C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I just posted on the 410 280-2503 BBS a map of the Seattle area. It is a 32 mile map based on the 2,000,000 CDROM data. Enter it into your MAPLIST.WES as WAsound.map,47.43,122.43,40,

If there is anyone else out there with the 2,000,000 CDROM? These maps are EASY to make with MAKEMAP.bas or EXE. Pick an area and start making em. Lemme know who's working on what, so we don't overlap. My experience is that you should NOT use the alt-SMOOTH command greater than 1.2 unless you absolutely have to. Otherwise you start cutting off smooth bends in roads. Take the 30 minutes or so that it takes to go through (with the + key) every point at about the 4000 point level, and use alt-D to delete those points that have minimum impact.

333. Question

From: "Warren E. Boudrie" <web@vectorbd.com>
Date: Tue, 16 May 1995 23:11:23 +000 (UTC)
To: vectorbd!tapr.org!aprssig
Message-ID: <Pine.3.87.9505162323.A7714-0100000@vectorbd.vectorbd.com>
Rendered body type: text/plain

Somehow while running APRS, the map format on my screen changed to a view from the air with the right hand vertical portion of the screen displaying altitudes. It's probably somewhere in the read files but I could not find the command to get that feature. I'm not sure but I think I returned to the normal map by hitting the Y key. Can someone tell me what commands I use to get and exit the altitude?

A few of us in the Rochester NY area are just getting started with APRS on VHF. Would it be correct for us to set up a single station with an alias of WIDE and for the other stations in the area to have their U path include WIDE? We have started out with everyone in the area using the default alias of RELAY and the Unproto of RELAY. Something tells me that is not correct.

Also, one of our group transmits his beacons just fine but we can not see his symbol. His symbol shows up on his own screen and he has saved it to his config file. Can someone tell me what controls the sending of the symbol or give me a clue why his does not appear at remote stations.

All the help we can get will really be appreciated.

73, Warren AA2LQ @ WB2WXQ.#WNY.NY.USA.NOAM

or

Internet: web@vectorbd.com

334. Re: [APRSSIG:1288] Re: Purchased GPS, Need Help

From: Dick Mead <mead@skat.usc.edu>
Date: Wed, 17 May 95 11:06:16 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.800733976.mead@hamal.usc.edu>
Rendered body type: text/plain

>
> On Wed, 17 May 1995 ChicagoWx@aol.com wrote:
>
> > I may have jumped the gun as purchasing a GPS but I have a couple of days to
> > return it, I paid just under \$299 for the Magellan GPS Navigator its called
> > the Trailblazer, after reading the book, I was happy to see it has NMEA 0183
> >
> > And it has 3 different NMEA strings...
> > a) APA, GLL, BWC, VTG
> > b) RMC, RMB
> > c) GLL, GGA, APB, VTG, BWC
>
> APR REPLY: You will want to use the RMC data. Hook the output to your
> PC at 4800 baud and verify that you get strings beginning with \$GPRMC....
>
>

I have used my Magellan with APRS and I use the <c> mode. Seems to work for me...

335. canada maps

From: Clearbrook_Technical@mindlink.bc.ca (Fred Kehler (ve7ipb))
Date: Wed, 17 May 1995 11:13:29 -0700
To: aprssig@tapr.org
Message-ID: <m0sBnat-0003ZEC@rsoft.rsoft.bc.ca>
Rendered body type: text/plain

hi, am currently running MacAPRS with Magellan GPS in my truck (5 miles north of the border, due north of the Seattle area)
am looking for any map info for building maps of this area....
thanks
fred kehlér ve7ipb

336. Report on DF bearing lines

From: wnolle@fly.HiWAAY.net
Date: Wed, 17 May 95 13:16:28 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950517133550.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

Well Bob and everyone else that's interested Hi. I did some tests and even if the point of the crossbearing is only let's say 5 miles or whatever distance and you zoom in and on the cross bearing line you can see it down to the 4 mile level then it disappears at the next couple of levels BUT will re-appear at the .25 level only. Bob it does not seem to have anything to do with distance to the point of the crossbearing.

By the way guys there are some users out there that think APRS is not the thing to use for DF'ing i take it. Well imagine two or 3 users with fairly good beams and rotors, then 1 or 2 users out in the field with a GPS receiver only. You coordinate with the foxhunters on a voice repeater. Once you get a bearing fix from the people with the beams one of them places the cursor over the point where the bearing crosses, mark down the coordinance and transmit this by voice to the person with the GPS, this guy now enters this coordinance as a waypoint and just drives right to the spot within minutes. Like i said before, my stacked 13el beams can give a good and fairly accurate bearing point to within a couple of blocks at 20-25 miles. Of course after that it's up to the foxhunters to go the rest of the way. If i may say so we have some very good foxhunters in this area that for close in use nothing more then a rubber ducky and a paper clip.

Try using APRS for your next foxhunt and get some people involved.

William Nolle (KE4EER)
wnolle@hiwaay.net
KE4EER@K4BFT.#NOAL.AL.USA.NOAM

337. MacAPRS

From: Emmet2@aol.com
Date: Wed, 17 May 1995 14:48:30 -0400
To: aprssig@tapr.org
Message-ID: <950517144829_122071514@aol.com>
Rendered body type: text/plain

Is this where 1.5.2 is supposed to be? What directory? I think I looked in /packet/tcpip/incoming and I didn't find it ... or the maps.

I would like the CT maps, but don't kill yourself over it, what I've got now will carry me through.

Chip Griffin - President of Thames River Apple Users Group
SysOp of The Quarry BBS (203-889-6427)

-----+-----
Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
N1MIE@N10KK.CT.USA | 1:320/301 (fidonet)

338. Re: [APRSSIG:1292] canada maps

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 17 May 95 14:51:39 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.800736699.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

There will be GOOD Canadian maps from the Digital Chart of The World data bases by sometime in the middle of the summer...

I have this stuff sort-of working, and the data is pretty impressive.. Be patient..

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

339. Re: [APRSSIG:1294] MacAPRS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 17 May 95 15:11:52 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.800737912.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

Is this where 1.5.2 is supposed to be? What directory? I think I looked in
>Is this where 1.5.2 is supposed to be? What directory? I think I looked in
>/packet/tcpip/incoming and I didn't find it ... or the maps.

This time around, I only put it at TAPR.. I have much better access/control there.

The program is in SIGS/aprs/
the Maps are in SIGS/aprs/MacMaps/

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

340. Re: MacAPRS Location

From: "Dana Rodakis" <dgra@qmgate.eci-esyst.com>
Date: 17 May 1995 15:10:39 -0400
To: emmet2@aol.com
Cc: aprssig@tapr.org
Message-ID: <n1411398924.3959a@qmgate>
Rendered body type: text/plain
Reply to: RE>MacAPRS Location

Chip:

You'll find the maps and MacAPRS at the TAPR ftp site. Here's the URL.

<ftp://ftp.tapr.org/tapr/SIG/aprssi/upload/>

73, Dana, AJ1R

341. Re: [APRSSIG:1294] MacAPRS

From: Dick Mead <mead@skat.usc.edu>
Date: Wed, 17 May 95 12:24:47 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.800738687.mead@hamal.usc.edu>
Rendered body type: text/plain

> Is this where 1.5.2 is supposed to be? What directory? I think I looked in
> /packet/tcpip/incoming and I didn't find it ... or the maps.
>
> I would like the CT maps, but don't kill yourself over it, what I've got now
> will carry me through.
>
> Chip Griffin - President of Thames River Apple Users Group
> SysOp of The Quarry BBS (203-889-6427)
> -----+-----
> Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
> N1MIE@N10KK.CT.USA | 1:320/301 (fidonet)
>
>

/tapr/SIG/aprssid/upload at ftp.tapr.org has it.
Dick

342. APRS maps from USGS 1:100,000 CD

From: DDOBBINS@aol.com
Date: Wed, 17 May 1995 15:49:45 -0400
To: aprssid@tapr.org
Message-ID: <950517154944_122139727@aol.com>
Rendered body type: text/plain

I'm attempting to run the conv100c.bas program on an extracted hydro pull off the USGS 1:100,000 CDRM. After a moment of numerous lines scrolling thru screen the program drops and gives me this error: "Subscript out of range" on the line "origx(i) = VAL(MID\$(a\$, z+1), 12))". Name of the hydro file I'm using is H53hyf01. I did the same on H53rdf01, and the program worked OK all the way thru. The road extract file was much larger, so that's not the problem. Perhaps some APRS CDRM mapmaker can help. Regards, Dave, WH6YC, HI APRS Coordinator.

343. ACECAD Tablet for APRS Maps?

From: DDOBBINS@aol.com
Date: Wed, 17 May 1995 15:47:20 -0400
To: aprssid@tapr.org
Message-ID: <950517154719_122139872@aol.com>
Rendered body type: text/plain

I opted for the smaller ACECAD 5" tablet for its portability and want to use it to make APRS maps. I can change settings to emulate a 12" pad, but so far have not figured out what other settings, and how to make them, are required for use w/MAPFIX. Is anybody else out there using an ACECAD? I have the data from ACECAD to change to Summagraphics MM Emulation, now I just need some technical level help. Thanks, and Aloha, Dave, WH6YC, Hawaii APRS Coordinator.

344. APRS in Hawaii

From: DDOBBINS@aol.com
Date: Wed, 17 May 1995 15:50:00 -0400
To: APRSSID@tapr.org
Message-ID: <950517154958_122139991@aol.com>
Rendered body type: text/plain

Aloha de Dave, WH6YC, on Oahu, Hawaii. We have a growing interest here on Oahu, and an excellent wide area digipeater on 145.05 that affords expanded area coverage. The digi is AH6CP-1. We will soon change to a repeater on the mountain ridge on 145.79, - offset, as the current freq is in heavy use w/BBS and ROSE traffic. I have a WX station up 24hrs on Ford Island, and a HF to VHF gateway at my home QTH in Ewa Beach, which is due west across the channel entering Pearl Harbor. We have a mix of Macs and DOS machines active, including one station on Kauai that reaches our local digi w/o problem. If you're visiting or moving to the islands, come up on freq and introduce yourself. Likewise, I'm available to answer APRS related questions at (808) 472-8452 during normal working hours. Aloha, Dave

345. APR on travel till 26th

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 17 May 1995 19:54:46 -0400 (EDT)
To: aprssid@tapr.org
Message-ID: <Pine.SUN.3.91.950517195351.16814A@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I'll be on travel till the 26th. Have fun! SK

346. Re: [APRSSIG:1283] Garmin GPS 45 connectors (fwd)

From: hurlockw@netaxis.com (Bill Hurlock)
Date: Wed, 17 May 1995 21:32:41 -0300
To: aprssid@tapr.org
Message-ID: <9505180136.AA19268@netaxis.com>
Rendered body type: text/plain

Just be careful as you can place the connector onto the pins in several positions other than the one where the keyway lines up..

>I have already got the "official" cable- but have been following this thread.
>At a recent trip to a *giant* Ham Radio convention/flea market in Dayton Ohio.
>I decided to try to locate this DIN connector that supposedly worked OK on the
>Garmin 45.
>

```

>It took about 10 minutes to locate a vendor selling an 8 pin DIN socket that
>was designed to mount on the end of a wire (an "inline" connector). This
>socket had a keying slot and had several more pins than required. When the
>keying slot was lined up normally, 4 of the socket pins fit perfectly onto the
>Garmin pins. No problem with diameter or anything else. Solder four quick
>wires on and you have the Garmin cable.
>
>How much more simple could it be? The socket was a dollar at the flea market
>and the time to solder was less than a minute. I could not locate this
>connector at Radio Shack, though. You might have to try a "real" :)
>Electronics store.
>
>
>The pin layout (Sorry I am not an artist) A 7 pin socket with no center
>pin also works:
>
>      o
>      o      o      o
>      o      o      o
>      o      ^      o
>
>
>Ralph Fowler
>Atlanta, GA
>
>
>
>
//-----
hurlockw@netaxis.com
wa2tqi.ampr.org 41.08.33N 73.23.51W
grid square FN31jd

```

347. Re: [APRSSIG:1283] Garmin GPS 45 connectors (fwd)

```

From: JKANDEL@umiami.ir.miami.edu
Date: Wed, 17 May 1995 22:17:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HQMJ2XX0ZYA5WAKE@umiami.ir.miami.edu>
Rendered body type: text/plain

So you're the one who beat me to that connector at Dayton.
KI4T

```

348. RE: [APRSSIG:1281] Purchased GPS, Need Help

```

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
Date: Wed, 17 May 1995 23:27:28 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <950517232728.14cc2@CRPL.CEDAR-RAPIDS.LIB.IA.US>
Rendered body type: text/plain

>I paid just under $299 for the Magellan GPS Navigator
I've used the trailblazer for about a year now with APRS and it works fine.

```

349. RE: [APRSSIG:1281] Purchased GPS, Need Help

```

From: BARRETTD@CRPL.CEDAR-RAPIDS.LIB.IA.US
Date: Wed, 17 May 1995 23:43:47 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <950517234347.14cc2@CRPL.CEDAR-RAPIDS.LIB.IA.US>
Rendered body type: text/plain

>
>they
>sell a Data/power cable for t
>he NEMA

I bought the rs232 cable and use a radioshack cable made for cell phones that
has two suction cups.

On the trailblazer I've used NMEA a, b, and c with APRS and also with the GPS
aware Paccom Tiny-2 TNC straight.
NMEA A on the trailblazer is just Lat, Lon and time $GLL
NMEA B is $RMC $RMB and something else which is Lat Lon Time
Course Direction Speed and Current Waypoint Bearing to current waypoint
and cross track error; which is the distance right or left of the
parallel course to the waypoint
NMEA C is $APA $APB $GGA $GLL this is basicly autopilot stuff and does
include nuber of satelllites seen which can be handy.

```

My cousin has the Garmin 45 which has much more as far as bells and whistles but my what bells and whistles!!
On powerup you get a great circle display showing satellite posit in relation to horizon, as they are captured you get bar graph signal display, it has a position plotter that zoom in and out to diffrent scales.
The only complaint I've heard about the Garmin is the velocity doesn't keep going GARmin's capped the top spped it will display.
But heck how many folks can afford Ham Radio AND Flying?

nuff said my fingers ache from running a sledgehammer.....

350. ASCII characters on startup

From: dlarsen@spider.lloyd.com (Don Larsen)
Date: Wed, 17 May 95 23:00 PDT
To: aprssig@tapr.org
Message-ID: <m0sBycr-0010XQC@spider.lloyd.com>
Rendered body type: text/plain

Hi All,

I have had a problem with the last couple of versions that I have downloaded. It seems that every time that I boot the program and the program initializes the tnc, all I get from the tnc are ASCII characters. If I turn the tnc off and restart it then all is functioning normally and the program runs without any other problems. I am currently using ver 6.9, the problem started with 6.8a. I did not have a problem with ver6.6. My tnc is a kpc-2 and I have tried setting the program for both the kam and tapr with the same results. Any ideas why this is happening?

Thanks for the help
Don Larsen, N4JOP@KM6PX.#NOCAL.CA.USA.NA
dlarsen@spider.lloyd.com
P.O. Box 941
Camino, CA 95709

351. Re: [APRSSIG:1307] ASCII characters on startup

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Thu, 18 May 1995 07:19:45 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950518071734.26375A-100000@pinegov>
Rendered body type: text/plain

On Thu, 18 May 1995, Don Larsen wrote:

> Hi All,
>
> I have had a problem with the last couple of versions that I have
> downloaded. It seems that every time that I boot the program and the
> program initializes the tnc, all I get from the tnc are ASCII characters.
> If I turn the tnc off and restart it then all is functioning normally and
> the program runs without any other problems. I am currently using ver 6.9,
> the problem started with 6.8a. I did not have a problem with ver6.6. My
> tnc is a kpc-2 and I have tried setting the program for both the kam and
> tapr with the same results. Any ideas why this is happening?

>
> Thanks for the help
> Don Larsen, N4JOP@KM6PX.#NOCAL.CA.USA.NA
> dlarsen@spider.lloyd.com
> P.O. Box 941
> Camino, CA 95709
>
>

Don, I had the same problem, then I realized the both the upgrade 66to69.zip and the full aprs69.zip have a NEW INITTAPR.TNC file in the \SYSTEM directory. We KAM folks must change the first line of that file to read PARITY 4 not PARITY 0. All will then work and your hair will grow back.

PS: This is the first upgrade with a new INIT file in it for a LONG time, but watch for it again.

73 de Kevin KD4UYR
kheyboer@co.pinellas.fl.us

352. MOTOROLA GPS

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Thu, 18 May 1995 04:21:45 -0700
To: aprssig@tapr.org

Message-ID: <199505181121.EAA09142@ix4.ix.netcom.com>

Rendered body type: text/plain

Well, the Motorola Oncore GPS arrived today and I tried Bob's Motorola.BAS program to put it in NMEA mode...no joy. Anyone had luck with it???

73 de Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

353. Magellan Trailblazer question

From: Chicagowx@aol.com

Date: Thu, 18 May 1995 07:39:02 -0400

To: APRSSIG@tapr.org

Message-ID: <950518073901_122974804@aol.com>

Rendered body type: text/plain

When I hook the GPS into the KPC-3, can I still access full control over the display unit so I can use the features of the GPS as I would normally without the NMEA cable hooked up? Just wanted to make sure cause I want to mount the GPS near the drivers cabin and run cables under the seat to radios. I would like to know my direction of travel, speed, Lat and Longitude at a glance while its sends the GPS data to the TNC on its own... Is this correct?

Ron

chicagowx@aol.com

354. Re: [APRSSIG:1307] ASCII characters on startup

From: rwf@mindspring.com (rwf)

Date: Thu, 18 May 1995 08:21:40 -0500

To: aprssig@tapr.org

Message-ID: <199505181218.IAA28611@dylan.mindspring.com>

Rendered body type: text/plain

You are not the only person I have heard of with that problem. Several buddies here in Atlanta have KPC2s and the same problem. Turning it off and back on "cures" it for that session. Someone else reports it with the KAM. I have a new KPC3 and had to use the KPC command INTERFACE TERMINAL in order to activate the extra commands that APRS uses. Anyone out there know the answer to the KPC2 problem??????

Ralph Fowler N4NEQ

Atlanta, Gawgia

>Hi All,

>

>I have had a problem with the last couple of versions that I have
>downloaded. It seems that every time that I boot the program and the
>program initializes the tnc, all I get from the tnc are ASCII characters.
>If I turn the tnc off and restart it then all is functioning normally and
>the program runs without any other problems. I am currently using ver 6.9,
>the problem started with 6.8a. I did not have a problem with ver6.6. My
>tnc is a kpc-2 and I have tried setting the program for both the kam and
>tapr with the same results. Any ideas why this is happening?

>

>Thanks for the help
>Don Larsen, N4JOP@KM6PX.#NOCAL.CA.USA.NA
>dlsarsen@spider.lloyd.com
>P.O. Box 941
>Camino, CA 95709
>
>
>

355. Re: [APRSSIG:1309] MOTOROLA GPS

From: rwf@mindspring.com (rwf)

Date: Thu, 18 May 1995 08:35:38 -0500

To: aprssig@tapr.org

Message-ID: <199505181232.IAA00575@dylan.mindspring.com>

Rendered body type: text/plain

No probs (I have several of the oncores) Did you make this cable?

GPS PC 9 pin (assuming you have a 9 pin PC serial port)

1	1
2	3
3	2
7	5

7 power gnd
8 power +12vdc
6 clock battery (not reqd for check out)
7 clock battery gnd

I always use this cable.

Run Motorola.bas
tell it the comm port #
tell it Yes for nmea mode
then for the sentences, type:

GGA,0001
GLL,0001
RMC,0001
GSV,0001

Disregard all the checksum junk and allthose crazy diagrams and dotted lines. That is just there to confuse you! :)

Then FTP over to my site and get the file gmday2.zip
It will give you a nice GPS display on a PC (again- assuming you are using a PC). If you have a mac, lots of luck (sorry Keith)

My ftp site is: ftp.mindspring.com/users/rwf

Let me know if you have any more problems

```
>Well, the Motorola Oncore GPS arrived today and I tried Bob's
>Motorola.BAS program to put it in NMEA mode...no joy. Anyone had luck
>with it???
>
>73 de Dan
>
>--
>-----
>dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
> A0000GA! A0000GA! DIVE! DIVE! DIVE!
>-----
>
>
>
```

356. Motorola GPS Support

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Thu, 18 May 95 9:30:14 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.800803814.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

>It will give you a nice GPS display on a PC (again- assuming you are using a
>PC). If you have a mac, lots of luck (sorry Keith)

The Macintosh version of APRS has had FULL Motorola support in it, including the ability to get the unit OUT of binary mode and into NMEA mode, and the ability to send all of those goofy commands, all from a nice Dialog box. This has been in the Macintosh software for almost a year. (The program has only been out a little OVER a year). It then has a nice window-display showing all of the info coming from the GPS unit. This display works with ANY NMEA data. There is also support for the Magellen unit since it needs some goofy commands too.

If your unit has the GSV data sentence, MacAPRS will plot where the satellites are in references to your position in the NMEA window too. There is also a 'compass' strip that is derived from the bearing information.

Conclusion, you don't need to get any other programs to support this unit, MacAPRS does it all already..

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

357. RE: [APRSSIG:1310] Magellan Trailblazer question

From: Tim Smith <TSMITH@fibusa.com>
Date: Thu, 18 May 95 10:15:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <2FBB7C36@ipnovell.fibusa.com>
Rendered body type: text/plain

>>When I hook the GPS into the KPC-3, can I still access full control over the
>>display unit so I can use the features of the GPS as I would normally without
>>the NMEA cable hooked up? Just wanted to make sure cause I want to mount the
>>GPS near the drivers cabin and run cables under the seat to radios. I would
>>like to know my direction of travel, speed, Lat and Longitude at a glance
>>while its sends the GPS data to the TNC on its own... Is this correct?

Ron,

The NMEA output of the Trailblazer is consistant no matter what operating mode the unit is in. The only exception is in SAMPLING mode where the receiver turns on once every ten minutes until it gets a fix and then shuts down. Just be sure to enable NMEA output in the setup menu.

I do the same thing. I put the unit on the dash so I can see the display and computer in the seat. I hope to shove a PK-12 with a radio in th trunk soon.

73,

Tim N1BTQ
tsmith@fibusa.com

358. Motorola

From: paul@paccomm.com
Date: Thu, 18 May 95 12:26:44 UTC
To: aprssig@tapr.org
Message-ID: <3867@paccomm.com>
Rendered body type: text/plain

Daniel Velez says he got his Oncore.
The thing is a pig to configure. Use only the Motorola program or you may end up screwing the thing. I talked with one of my friends/customers yesterday and his opinion was about as low as mine..... Motorola were very unhelpful.
Regards, Paul.
P.S. DON'T EVER FEED data from a dumb modem with white noise on it into the RTCM port!!!!!! This kills the receiver DEAD.

Paul Evans, W4/G4BKI paul@paccomm.com
+1 (813) 874-2980 Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm.
I don't surf the internet, I SAIL IT!
Captain of S/V "Spindrift" (Catalina 36), Dunedin, FL.
PacComm Packet Radio Systems, Inc., 4413 N. Hesperides St., Tampa, FL 33614-7618

359. Re: [APRSSIG:1311] Re: ASCII characters on startup

From: mxdp!twade@mxdp.afsv.af.mil (Tom Wade)
Date: Thu, 18 May 95 16:56:56 CDT
To: aprssig@tapr.org
Message-ID: <9505182156.AA12699@mxdp.afsv.af.mil>
Rendered body type: text/plain

I found that the file that initialized the tnc was changing my kam to the wron param. Check the init file to see if it is the correct commands for your tnc.

360. AEA PK-900 and APRS

From: Bob_Fairbairn-C12509@email.mot.com
Date: 18 May 95 17:21:58 -0600
To: aprssig@tapr.org
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>
Rendered body type: text/plain

Now that I have tackled the stand alone tracker, I want to log my tracks. I have a PK-900 hooked up to my IC820, on port 2.

I am currently trying to get 6.8e to work on my system. I can receive data great, but I cannot get the world to digi my packets. I think the problem is in the setup of the AEA.

Has anybody else done this? How about the MAC version with AEA, Keith?

KF90A

361. Re: [APRSSIG:1315] Motorola

From: rwf@mindspring.com (rwf)
Date: Thu, 18 May 1995 18:36:08 -0500
To: aprssig@tapr.org
Message-ID: <199505182230.SAA18798@dylan.mindspring.com>
Rendered body type: text/plain

<snip>

>

>P.S. DON'T EVER FEED data from a dumb modem with white noise on it
>into the RTCM port!!!!!! This kills the receiver DEAD.

>

Paul- The Oncores have an idle mode in them. Idle mode puts 'em to sleep. The self test leaves the unit in idle mode and you have to wake it up with a command in the Motorola program.

There is a new version of the Motorola program- GPS70 that is supposed to work better and also supports 8 channel units.

I have found the Oncores to be very sensitive and quick to lock. And VERY quick (3 sec) to reacquire after losing signal in trees or under a bridge.

The active antenna from Motorola makes a Garmin 45 GPS a new and amazing animal! That passive quad helix is fair, but the Moto. far outperforms it!

I'll put GPS70 on my ftp site: ftp.mindspring.com/users/rwf/

Also there are many GPS pgms and the current APRS of the day :)

By the way I am going to make it a point to stand in your booth at hamfest drawing time. Remember- I won the door prize at Tampa while absorbing good luck from you!

Ralph Fowler N4NEQ

362. Meridian Research

From: ChicagoWx@aol.com
Date: Thu, 18 May 1995 18:34:40 -0400
To: APRSSIG@tapr.org
Message-ID: <950518163451_123534671@aol.com>
Rendered body type: text/plain

Hi All,

I did a little research with Megellan today and found out that the Trailblazer that I just purchased is the same as the Meridian, just a different color case, mine is green which is for hiking, and I guess the meridian is grey. And I also found out that there is a model XL on both the trailblazer and Meridian, which gives you sunset, sun rise, and a whole bunch of other minor features, plus plotting like the Garmin 45, I was wondering , he mentioned its about 50 dollars more for the XL models, and I know the Meridians are going for \$249, and he said there should be no price difference between the 2 models (Trailblazer and Meridian) unless its an XL then its about \$50 more, so now that I know I have the regular trailblazer, and it was \$299, I could literally switch to grey (to match my car's interior) and save \$50 from what I paid at the local store, sound correct? The only thing that he mentioned that sounded remotely interesting in the XL models was the plotting.. and I have not seen this feature, but I don't know if I would want it, maybe someone could explain what it does or how it can be used, I know on mine it will give me a compass and tell me which direction to walk

and how far, I think this is all I need, unless the plotting be useful in other means of looking at the data, I would not be interested in this feature, also the XL has 100 more waypoints for a total of 200, again not a big feature for me.

I now pose my second question, what is the pinout on the meridian/trailblazer for NMEA? I know they are the same for either model.

And where can I find the connector? Does it have a specific name? I would like to save \$48 from the manufacture... Thank you
Ron

363. [APRSSIG:1310] MAGELLAN T

From: jeff.brenton@espi.com
Date: Thu, 18 May 95 18:36:38 -0500
To: aprssig@tapr.org
Message-ID: <9505181836.0Q57S02@espi.com>
Rendered body type: text/plain

On Thursday, May 18, ChicagoWx@aol.com asked about accessing the GPS display whilst it fed data to a KPC-3. Having used Garmin GPS's to feed moving map software for over a year, I can say that the data stream does NOT interfere with the display; they are separate functions of the GPS's computer.

You could also "Y" the data cable to the TNC, and feed a computer with a moving map, if you desired... I was going to do this for my flight to California last month, but discovered that I needed a GPS registration for APRS to make it all work.

□ KWQ/2 1.2a □

364. Re: [APRSSIG:1289] Washington Puget Sound map

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 18 May 1995 21:39:10 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505190239.VAA01796@solar.cs.tamu.edu>
Rendered body type: text/plain

Robert Bruninga sez:

>

> ...

> roads. Take the 30 minutes or so that it takes to go through (with the +
> key) every point at about the 4000 point level, and use alt-D to delete
> those boints that have minimum impact.

So, what is the max number of usable points in the 69 release?

Thanks & 73, gerry

365. Re: [APRSSIG:1299] APRS maps from USGS 1:100,000 CD

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 18 May 1995 21:47:18 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505190247.VAA01838@solar.cs.tamu.edu>
Rendered body type: text/plain

DDOBBINS@aol.com sez:

>

> I'm attempting to run the conv100c.bas program on an extracted hydro pull off
> the USGS 1:100,000 CDR0M. After a moment of numerous lines scrolling thru
> screen the program drops and gives me this error: "Subscript out of range" on
> the line "origx(i) = VAL(MID\$(a\$, z+1), 12))". Name of the hydro file I'm
> using is H53hyf01. I did the same on H53rdf01, and the program worked OK all
> the way thru. The road extract file was much larger, so that's not the
> problem. Perhaps some APRS CDR0M mapmaker can help. Regards, Dave, WH6YC, HI
> APRS Coordinator.

OK! gripe time! How many of you are using the GUI FTP clients? A lot of them fail to give you all the messages and info you need when you change directories.

At one point in the directory meandering, a subdirectory banner tells you that the files are not blocked, and tells you how _ON A UNIX SYSTEM_ to unblock them. Anyone with a little more time than me can probably work thru a qbasic routine to do this. I'm a bit busy writing a DGPS translator and doing GIS for the Cows... I can't look at it.

SoAPBOX ON: This grips is not at you guys as users, but please be familiar

with the limits of your software. Several of the FTP clients don't show all the messages (?trying to protect you from excessive information?) and you never see this. What that means is, you missed vital info and had to go seeking info elsewhere. SoaPBOX off.

To a limited extent I can probably do some of this as a server, but I will need to see what space is available on one of the sites for anonymous access and retrieval.

73, gerry

366. Re: [APRSSIG:1313] Motorola GPS Support

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 18 May 1995 22:12:18 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505190312.WAA02099@solar.cs.tamu.edu>
Rendered body type: text/plain

> Conclusion, you don't need to get any other programs to support this unit,
> MacAPRS does it all already..

>

>

> Keith Sproul	Ham Radio: WUZZ
> Student Housing Network Coordinator	ksproul@noc.rutgers.edu
> Rutgers University Computing Services	908 445-3695 Work
> http://www.ns.rutgers.edu/~ksproul/	908 821-4828 Home

Tongue in cheek, I hope.

NOT ALL OF US HAVE MACs nor do I intend to get a toaster just to talk to a GPS. I have to make it work on a PC. Sorry, but for my applications, MacAPRS is NOT a solution. Period.

73, gerry

367. Re: [APRSSIG:1315] Motorola

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 18 May 1995 22:17:43 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505190317.WAA02170@solar.cs.tamu.edu>
Rendered body type: text/plain

paul@paccomm.com sez:

>

> Daniel Velez says he got his Oncore.
> The thing is a pig to configure. Use only the Motorola program or
> you may end up screwing the thing. I talked with one of my friends/
> customers yesterday and his opinion was about as low as mine.....
> Motorola were very unhelpful.

In general, I've gotten less than stellar help from Motorola's help line, but I've found other avenues. And do, please, be careful with the GPS program as your sole source of configuration. It appears to have some interesting quirk, although recent (today) investigations suggest a number of my problems with the older PVT6 and the current incarnation OnCores have been hardware (ground-loop/differing potential ground) related rather than software. To that end, make sure that if you do not have equipotential frame grounds on the computer and GPS, that you try to isolate one or the other completely.

> P.S. DON'T EVER FEED data from a dumb modem with white noise on it
> into the RTCM port!!!!!! This kills the receiver DEAD.

Hate to be this way, but the OnCore doesn't have an RTCM port. Werre you, by chance referring to the single serial port on the box?

73, gerry

368. Re: [APRSSIG:1292] canada maps

From: philkeys@olympus.net (Phil Keys)
Date: Thu, 18 May 1995 22:19:49 -0800
To: aprssig@tapr.org
Message-ID: <v01510101abe1dd49508f@[198.133.237.36]>
Rendered body type: text/plain

Hello Fred

I am also interested in local maps to use with MacAPRS. Do you know that Keith Sproul plans to release MacMapMaker in June. It will make maps from

USGS CD-ROMs. I have a 1:100,000 waterways and transportation CD-ROM that I am waiting to use. Whoops, just realized that the USGS CD-ROMs don't include Canada. Oh well, maybe there is a Canadian equivalent.

I am located 10 miles south of Port Townsend, WA.

73
Phil Keys
KJ7ET

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

369. Re: [APRSSIG:1312] Re: MOTOROLA GPS

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Fri, 19 May 1995 04:28:38 -0700
To: aprssig@tapr.org
Message-ID: <199505191128.EAA22468@ix5.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>No probs (I have several of the oncores) Did you make this cable?
>

EDITED FOR BREVITY

>
>Then FTP over to my site and get the file gmday2.zip
>It will give you a nice GPS display on a PC (again- assuming you are
using a
>PC). If you have a mac, lots of luck (sorry keith)
>
>My ftp site is: ftp.mindspring.com/users/rwf
>
>Let me know if you have any more problems
>

That worked great! The problem was the cable...in the gnd ckts.
Thanks for the fast reply to my yell for help. Oh, and GM works great,
too. I wonder if the folks on the GPS usenet group are aware of it?

Actually, I received several replies offering suggestions...Thanks
everyone!

73 de Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

370. Re: [APRSSIG:1326] Re: MOTOROLA GPS

From: rwf@mindspring.com (rwf)
Date: Fri, 19 May 1995 08:50:59 -0500
To: aprssig@tapr.org
Message-ID: <199505191248.IAA18929@dylan.mindspring.com>
Rendered body type: text/plain

I am having a mailer problem.
I apologize if this posts more than once

Anytime, Dan- that grounding pin issue has messed up several folks here as well. Did your Oncores come from the source that was posted here, or were they from the group that was being sold at Dayton? Actually the ones from Dayton all appear to be quite an old version of firmware (no GPS Altitude > 60,000 ft) and the ones from here were all version 6.0 which was released around Nov 94 and supposedly do the altitude properly. Good thing to remember if you ever make a balloon payload! Of course that can be fixed with a flash upload from Motorola.

I have mentioned GM over on the GPS group a few times. Possibly time for another mention of it. As you know, there is a guy in Canada named Peter who has many good GPS files and programs on his FTP site. I tend to try to keep the Ham related ones on mine. His has a strange address and I have a real hard time with it.

I wonder if Bob is really down there in the VI with no radio(or TNC)? I bet he snuck one in the suitcase where she couldn't find it until it was too late :)

Ralph Fowler
Atlanta N4NEQ

```
>You wrote:
>>
>>No probs (I have several of the oncores) Did you make this cable?
>>
>EDITED FOR BREVITY
>>
>>Then FTP over to my site and get the file gmday2.zip
>>It will give you a nice GPS display on a PC (again- assuming you are
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>>PC). If you have a mac, lots of luck (sorry keith)
>>
>>My ftp site is: ftp.mindspring.com/users/rwf
>>
>>Let me know if you have any more problems
>>
>>That worked great! The problem was the cable...in the gnd ckts.
>>Thanks for the fast reply to my yell for help. Oh, and GM works great,
>>too. I wonder if the folks on the GPS usenet group are aware of it?
>
>Actually, I received several replies offering suggestions...Thanks
>everyone!
>
>73 de Dan
>
>--
>-----
>dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
> A0000GA! A0000GA! DIVE! DIVE! DIVE!
>-----
>
>
>
```

371. APRS in Europe

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)
Date: Fri, 19 May 95 15:20:39 MET DST
To: aprssig@tapr.org
Message-ID: <9505191320.AA23797@sunrise.e-technik.uni-ulm.de>
Rendered body type: text/plain

Hi Netlanders,
I wonder if there are any other Europeans on this list. We (a couple of EE students and myself) have been playing around with APRS for a while now - however I get the faint impression that we are the only ones here in Europe.

A communications company will probably provide us with a number of GPS receivers in July, and I hope that will give APRS activity a boost.

So - we would like to get in touch with other European hams actively running APRS to swap ideas on what might be done here, and maybe swap maps etc. (I refined the European map and did a German one, in case anyone is interested).

73 from Ulm,
Hermann DF2DR

--
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de
Dept. of Electron Devices and Circuits |
University of Ulm, | office: +49 731 502-6152
D-89069 Ulm, Germany | FAX: +49 731 502-6155

Help fight leukemia - we're closing in on a killer!

372. Tracking sailplane near Phoenix and Tucson (long)

From: parker@rincon.com (Mike Parker)
Date: Fri, 19 May 1995 07:44:05 -0700
To: aprssig@tapr.org
Message-ID: <199505191444.HAA20057@mailhost.primenet.com>

Rendered body type: text/plain

I will be carrying a stand-alone GPS-TNC-2 meter package aboard my sailplane during the region 9 soaring contest May 28-June 2. The short-term objectives are:

1. Try to win the contest (this has nothing to do with GPS or ham radio)
2. Develop techniques for providing automatic sailplane position reporting to ground crews (without adversely affecting item 1).
3. Demonstrate the potential to other sailplane pilots.

I am new to the use of APRS (but not to Packet or GPS applications). I welcome any comments, suggestions, or assistance.

The Region 9 soaring contest will be held at Estrella sailport 33 deg 5 minutes north, 112 deg 0 min west (30 miles south southwest of Phoenix). Visitors are welcome. Takeoffs will usually start just after noon. Contest starts will be around 1:30 and finishes 4 to 5 pm. The sailplanes will usually be flying between 4,000 and 15,000 feet ASL. Depending on the task for the day, we will usually be within 100 miles of Estrella somewhere within an arc from southeast clockwise to north. No courses will pass directly over Phoenix because of airspace restrictions. The contest is for fastest speed around a set course. You will see glides between 70 and 120 knots mixed with circling in thermals to gain altitude. Air-ground communications occur on 123.3 and 123.5 MHz (AM). They are usually short and rather cryptic however. My contest call-sign is IC (India Charlie). I am flying a Ventus sailplane in the 15 meter (wingspan) class.

I would appreciate any answers to the following questions.

1. Is transmitting on 145.79 the appropriate frequency for the Phoenix area?
2. I intend to transmit to APRS from KT7D. I am not planning to transmit to Relay or Wide because I don't know anything about relaying in the Phoenix area, and because my ground station at Estrella is blocked by the Estrella mountains from most Phoenix stations and the repeaters on the White Tank mountains. I will transmit every 30 seconds. Does this make sense?
3. Is anybody in the Phoenix-Tucson area interested in/willing to monitor the frequency and provide feedback.
4. Should I leave digipeat on? I am concerned that extensive digipeating through the glider might exhaust the handitalkie battery.
5. I will be transmitting the \$GPRMC (location, course, and speed) from my Garmin 95AVD using a PacComm Handi-packet. Altitude is contained in the \$PGRMZ message. Does anybody know how to make a Handi-packet transmit both? (there are plenty of other messages, so I can't just use \$ as the string to key on) If my PK-12 returns from repair it claims to transmit two strings. Can APRS (or anything else) currently recognize the \$PGRMZ message; if so should I change over to the PK-12 if possible and transmit both?

If anybody is wants to get more involved (say by operating a ground station, erecting a good ground station antenna, or providing/controlling a TNC-radio combination to be carried by another sailplane) please contact me at parker@rincon.com or (520) 885-2122 (home). I could really use the help. During the contest you may try calling my cellular phone (520) 449-8611 with feedback or questions. Our area code is changing, sometimes the old one (602) works better. I will not be able to talk to anyone while actually flying. This is due cockpit workload, safety, and radio configuration.

Status May 19:

The mobile unit finally worked last weekend and I (KT7D-9) was tracked by Dan Morrisson (KV7B) while driving around Tucson. An attempt to fly was defeated by high winds and equipment problems. I heard no other transmissions on 145.79 for the entire weekend, so either there isn't much activity in Tucson or it is on another frequency.

I will be on again this weekend (May 19 and 20) flying from El Tiro gliderport northwest of Tucson trying to shake the bugs out.

Mike Parker
ham callsign KT7D
sailplane callsign IC

373. Map Making

From: W2H0B@aol.com
Date: Fri, 19 May 1995 11:02:17 -0400
To: aprssig@tapr.org
Message-ID: <950519110210_124319022@aol.com>
Rendered body type: text/plain

I downloaded some map files from "edcftp.cr.usgs.gov" in the "opt" format. Some are 1:2,000,000 and some were 1:100,000. I did this via America Online's access to the Internet. From what I can tell, I need to run these files through the USGS's EXTRACT program to pull out what I need to run CONV100c.BAS and MAKEMAPS.BAS and MAPFIX68.BAS on them.

Is this correct and I looked for that EXTRACT file at the above address but couldn't find it. Am I looking in the right spot? Am I doing this right!!!

Thanks for whatever help ya'll can offer. I one of those who needs step-by-step instructions :)

73 de Boyd AR

374. Re: [APRSSIG:1327] Re: MOTOROLA GPS

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Fri, 19 May 1995 10:16:33 -0700
To: aprssig@tapr.org
Message-ID: <199505191716.KAA17495@ix5.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>Anytime, Dan- that grounding pin issue has messed up several folks here as
>well. Did your Oncores come from the source that was posted here, or were
>they from the group that was being sold at Dayton? Actually the ones from
>Dayton all appear to be quite an old version of firmware (no GPS Altitude >
>60,000 ft) and the ones from here were all version 6.0 which was released
>around Nov 94 and supposedly do the altitude properly. Good thing to
>remember if you ever make a balloon payload! Of course that can be fixed
>with a flash upload from Motorola.
>

They came from the source listed here a couple weeks ago.

> I have mentioned GM over on the GPS group a few times. Possibly time for
>another mention of it. As you know, there is a guy in Canada named Peter
>who has many good GPS files and programs on his FTP site. I tend to try to
>keep the Ham related ones on mine. His has a strange address and I have a
>real hard time with it.
>

If you come up with the address, send it my way. Next project: HSP mode for the HP200LX and this Motorola GPS...could get interesting.

Thanks again, Ralph.

73 de Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

375. Re: MFJ-8621 DATA RADIO

From: Joe Cline <cline@scs.unr.edu>
Date: Fri, 19 May 1995 10:48:23 -0700 (PDT)
To: aprssig@tapr.org
Cc: BillWB6LPG@aol.com
Message-ID: <Pine.OSF.3.91.950519103535.15178C-100000@pogonip.scs.unr.edu>
Rendered body type: text/plain

On Thu, 20 Apr 1995 BillWB6LPG@aol.com wrote:

> The MFJ Jewel has arrived finally, 18 weeks delivery, but still missing
> (on B/O) the AC plug-in 2amp pwr supply. Hi.. Nice little 5 x 5 x 1-1/2H

[description of product omitted]

> So far only smoke tested, with 12v DC applied. No on air reports as yet.

I ordered two of these "jewels" back in Feb. Finally got too curious and called MFJ this morning. They claim my radios are being shipped today (two months ago it was going to be in two weeks!). I

was sorta hoping I'd hear another report before they showed up - in case I wanted to cancel the order.

Can Bill, or anyone else, give an "on air" performance report?
How about 9600 baud?

-Joe Cline KC7AXG

376. Re: [APRSSIG:1309] MOTOROLA GPS

From: DEANG@mail.syntron.com
Date: Fri, 19 May 95 13:11:09 CST
To: aprssig@tapr.org
Message-ID: <9504198009.AA800914269@MAIL.SYNTRON.COM>
Rendered body type: text/plain

>
>Well, the Motorola Oncore GPS arrived today and I tried Bob's
>Motorola.BAS program to put it in NMEA mode...no joy. Anyone had
>luck with it???

I have been using that program for months with the Motorola PVT6 Oncore. The only problem it has is with its communication buffer. (it always overruns the buffer)

```
\\//  
(..)  
-000-(_) -000-----  
| George Dean KC5KGE 2946.18N 9545.76W DEANG@mail.syntron.com |  
-----
```

377. MFJ Data Radio Avail.

From: jeff.brenton@espi.com
Date: Fri, 19 May 95 22:04:07 -0500
To: aprssig@tapr.org
Message-ID: <9505192204.0V03G00@espi.com>
Rendered body type: text/plain

Joe Cline mentioned that he hasn't received his MFJ-8621; Amateur Electronics had several in stock when I was up there last Saturday (\$110), and R&L Electronics had several when I ordered three of them earlier this week (\$108).

I did not, however, take any of the in-stock units; Mine are "special ordered" with 145.79 and 145.03 crystals. MFJ charges the same \$24.95 extra as if you bought the crystals separately, but they will install and test them before shipping.

□ KWQ/2 1.2a □ If at first you don't succeed, put out another version (KWQ 1.2).

378. Re: [APRSSIG:1329] Tracking sailplane near Phoenix and Tucson (long)

From: johnbeal@aztec.asu.edu (JOHN L. BEAL)
Date: Fri, 19 May 1995 21:40:52 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <9505200440.AA15955@aztec.asu.edu>
Rendered body type: text/plain

Your question was, in part:

>
>I would appreciate any answers to the following questions.
>
>1. Is transmitting on 145.79 the appropriate frequency for the Phoenix
>area?
That is the freq suggested on my APRS copy and I have never recieved anything on it. However I just listened without any knowledge of whether there was anyone working.
I would suggest you inquire KB7K0E as he runs a packet users group in Phoenix. BBS is N7MRP. I hope this has been some help.
>WA9UKH

--
John L. Beal Personal responsibility
Running Windows 3.1

379. Re: [APRSSIG:1334] MFJ Data Radio Avail.

From: rwf@mindspring.com (rwf)
Date: Sat, 20 May 1995 07:37:41 -0500

To: aprssig@tapr.org
Message-ID: <199505201132.HAA24505@dylan.mindspring.com>
Rendered body type: text/plain

<snip>
>
>I did not, however, take any of the in-stock units; Mine are "special
>ordered" with 145.79 and 145.03 crystals. MFJ charges the same \$24.95
>extra as if you bought the crystals separately, but they will install
>and test them before shipping.
>
>---

MFJ: Are you listening?!?!

I was planning to purchase one of these, but probably not in its current configuration.

Why not sell the radio without xtals, allowing the dealers to stock the "popular" ones. The final price could be the same once both items were bought. The dealers could determine what the active freqs were in the area. Of handle the xtals with an xtal certificate that is included. The customer mails the certificate to MFJ. MFJ drops the proper xtal (from stock) into an envelope and the user is all set to go in a few dayd.

It is strange to be forced to spend another 20% or so of the original cost of the radio to recrystal just so we can throw away the ones that we don't want (but were forced to buy).

Ralph Fowler, N4NEQ
Atlanta

380. Subscribe again

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sat, 20 May 1995 09:03:20 -0400 (EDT)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9505200920.A15392-9100000@acme>
Rendered body type: text/plain

Don't remeber if this is how it done but, somehow I got lost and have not been getting the mail. So, please

SUBSCRIBE
John R Baum

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address: KB8JX0@W8CQK.#CMH.OH.USA
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 137th most knowledgable person about A.P.R.S.

381. Re: [APRSSIG:1336] Re: MFJ Data Radio Avail.

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Sat, 20 May 95 08:28:44 UTC
To: aprssig@tapr.org
Message-ID: <3934@paccomm.com>
Rendered body type: text/plain

Ralph,

re: "Why not sell the radio without xtals, allowing the dealers to stock the popular ones....."

I know I'll catch a lot of flak for this response, but I thought I'd reply from a manufacturer's point of view, even though I don't speak for MFJ in this case (and have no knowledge of their actual reasons.)

1. Dealers don't like to carry options and add-ons unless they have their own part number, box, price etc, i.e. they are a product in themselves.
2. You have to put a crystal in the radio to test it, and it has to be tuned to that frequency. For economy in testing, it makes sense to put all of the radios on the same frequency so they have an identical test procedure.
3. One faces a choice of which features to make standard and which to charge

extra for. MFJ could have priced the radio at \$145 and offered free frequency change (crystal replacement), but \$120 attracts more attention. AND some of the users will run the radio on the frequency provided and not need to pay extra.

4. More to point 3: If the radio were offered without a crystal, MFJ's cost would drop very little. Good stable, aged crystals are not cheap. However, bought in large quantity with long lead times, the price goes way down. It is that 'way down' price MFJ is paying for the crystal which is included, so if they took the extra labor to remove it and deducted the crystal's cost, the radio price wouldn't go down much.

5. Customers like to purchase 'complete' units, i.e. they want to rush home and turn it on right away to check it out and have the flush of enjoyment override the pain of paying for the purchase. Taking a radio home and turning it on, seeing it work, then taking the steps to get it on the right freq. is more satisfying (IMHO) than purchasing something that can't be tried out for 2-3 more weeks till the crystal is installed.

In general and not applying to your specific comments and suggestions: It is so easy for a hobbyist to forget the value of time. When I'm paying someone to "just drop the correct crystal in an envelope" the costs are significant. I'd estimate the handling charges would be several dollars just to do that. Purchasing time to locate, order, follow-up etc. to get the crystals. Receiving time to count, verify correctness of items. Stocking time to put them away, inventory them periodically, then get them out again one by one. Mailroom time to receive the 'crystal order' letter, date stamp it, distribute. Order fulfillment time to create a mailing label, packing slip, update the customer's record to indicate what was done. Packing and shipping time to pad the item, put it in an envelope, fill out the shipping log (so you can tell the customer when it actually went out), run the envelope through the postage meter... Customer support time to handle the customer's original phone call asking how to get a crystal (not having read the paperwork), handling the second customer call (and third?) wanting to know if/when the crystal was shipped, and the subsequent call(s) asking how to install the crystal, asking why it doesn't work right, ad infinitum.

I don't mean to sound cynical (and I'm not, most days). But I like to take the opportunity to 'tell the other side' of the story.

What is the common factor in the following statements?

- DRSI has dropped out of the amateur business.
- It is so hard to get knowledgeable telephone customer support.
- Hams go to hamfests to get good deals on equipment (may apply to mailorder too)

The common factor is that money value of time. The customer buys via mail order or at a hamfest to get a super price. That dealer (most, not all) knows he won't have to provide much support, in fact he can't because he just sells things. The customer figures he can call the factory to get all the help he needs, so he doesn't care. The factory hasn't budgeted for all that support, which is traditionally a dealer function, so he either doesn't provide it by leaving the market (DRSI) or by limiting the amount and/or quality of support people he assigns to that task.

Since I've made this rather a tirade, let me offer a few suggestions. The customer should look at a purchase of technical gear as the start of a relationship with the manufacturer. If you purchase only based on price and glossiness of advertisements, you may be purchasing an inadequate amount of customer support. In this concept of a relationship, it makes more sense for the customer to do certain things than for the manufacturer. Certainly there is no substitute for reading (yea even studying) the manuals, but things like preparing the radio end of TNC cables, installing the right crystals, etc. are more efficiently done by the customer. If he opts for convenience and speed rather than efficiency, then he should expect to pay a reasonable price for that convenience.

The new Azden D-9600 seems to be an excellent radio for 9600. It retails for \$650 or thereabouts and I wouldn't be surprised to see that go up what with the Yen now at 85 to the Dollar. MFJ has made a quite good radio for \$120. Its on one frequency, probably has little customer support burden included in the price, etc, BUT ITS ONLY \$120. How much is it fair to expect for how little?

(end flame) but it wasn't meant to be a flame....

Gwyn Reedy, WIBEL gwyn@paccomm.com WIBEL@amsat.org


```

>
>Your question was, in part:
>>
>>I would appreciate any answers to the following questions.
>>
>>1.      Is transmitting on 145.79 the appropriate frequency for the Phoenix
>>area?
>That is the freq suggested on my APRS copy and I have never recieved
>anything on it. However I just listened without any knowledge of
>whether there was anyone working.
>I would suggest you inquire KB7KOE as he runs a packet users group
>in Phoenix. BBS is N7MRP. I hope this has been some help.
>>WA9UKH
>
>--
>John L. Beal  Personal responsibility
>Running Windows 3.1
>
>

```

Activity in the Phoenix area is mostly on 147.10 mhz repeater, up 600. There is some 145.79 activity from time to time. For some reason 145.79 has not caught on. If you use 147.10 mhz please set your unproto path to 'none', because on a repeater this causes less useless beaoning of your signal. This is a mountain top repeater. You will also see a BBS (Kc7y) on this frequency. Good luck on APRS
73, George - W8FWF
####

386. Re: [APRSSIG:1323] Re: Motorola GPS Support

From: KeithB10@aol.com
Date: Sat, 20 May 1995 18:41:22 -0400
To: aprssig@tapr.org
Message-ID: <950520184120_125975497@aol.com>
Rendered body type: text/plain

...Tongue in cheek, I hope.

...NOT ALL OF US HAVE MACs nor do I intend to get a toaster just to talk to a
...GPS. I have to make it work on a PC. Sorry, but for my applications,
MacAPRS
...is NOT a solution. Period.

...73, gerry.....

Let don't get started on the IBM---MAC thing. If the machine does what you
need then it is the right one for you....

I hope the IBM folk don't all look at the Mac and switch....I work on them
and support them.... If they looked...I would be out of bussiness.....

Keith in Kansas City running MAC..... By the way, the Dos version of APRS
works fine on the MAC.....

Thanks KEITH SPOUL for all your hard work on the mac version!!!!!!!!!!!!!!

387. VERSION 6.9

From: goldnite@ix.netcom.com (BARRY BRYANT)
Date: Sat, 20 May 1995 16:14:04 -0700
To: aprssig@tapr.org
Message-ID: <199505202314.QAA24033@ix2.ix.netcom.com>
Rendered body type: text/plain

HI,

I have just downloaded the new version 6.9,from my computer and
copy it to a floppy. just unzip it on my laptop andtry to start the
program.

it went thru the begining and after entering all the details.it
is suppose to start with the USA MAP.BUT I RECEIVED THIS MESSAGE:

can not run maplist.usa

stop line 0 of module aprs 9w at address 221a:498a

please let me know how to fix the problem.

Barry ka2oyf

388. Re: [APRSSIG:1340] aprs ordering info

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 20 May 1995 19:41:18 -0500
To: aprssig@tapr.org
Message-ID: <v01510100abe42b49bed1@[199.1.11.129]>
Rendered body type: text/plain

>How do I order or register for the latest PC version of APRS?

THERE are two file in the docs to read:
one called
REGISTER.DOC in the readme folder (oops directory, I am a mac user)
my finder says it is a MicroSoft word file but my normal text editor reads
it.

The second is called: valid.sys in th system dir.

I thought only we Mac people did not read the docs :-)

I just got a Garmin-45 at the new price and am having a blast with it.

73

Bob -- kc5ejk@onramp.net -- Dallas

389. [APRSSIG:1336] RE: MFJ DA

From: jeff.brenton@espi.com
Date: Sat, 20 May 95 19:34:08 -0500
To: aprssig@tapr.org
Message-ID: <9505201934.0RH0D01@espi.com>
Rendered body type: text/plain

Ralph Fowler commented, "It is strange to be forced to spend another 20% or so of the original cost of the radio to recrystal just so we can throw away the ones that we don't want (but were forced to buy)."

I agree, but suspect MFJ would only lower the price about \$10 if they didn't include crystals... Partly because they STILL have to put crystals in it sometime to test it, so it would cost them to take them out afterward.

The tradition of including crystals goes back a long way, too - my Midland 13-509 came with 223.50 crystals in it, and even crystal-controlled CB radios still come with channel 14 crystals.

What I do object to, but gave into, was being charged full price for the replacement crystals, even when I will never see the "wrong" ones.

Jeff Brenton
KA9VNV
McHenry County (IL) Emergency Services

□ KWQ/2 1.2a □

390. [APRSSIG:1340] APRS ORDER

From: jeff.brenton@espi.com
Date: Sat, 20 May 95 19:34:14 -0500
To: aprssig@tapr.org
Message-ID: <9505201934.0RHRH01@espi.com>
Rendered body type: text/plain

D. L. McMillin asked how to order and/or register APRS; this is covered in a file in the README directory, which includes an order blank and pricing. Cost is now \$24 for the basic license, plus add-ons you ask for...

□ KWQ/2 1.2a □

391. APRS for DF work

From: dhenders@InterServ.Com
Date: Sat, 20 May 95 19:15:42 PDT
To: aprssig@tapr.org
Cc: bruninga@greatlakes.nadn.navy.mil, 74232.627@compuserve.com, asz@aol.com,
n3pyh@aol.com, ronald.l.prindle@gte.sprint.com
Message-ID: <9505210215.AA12969@ InterServ.Com>
Rendered body type: text/plain

Re: Are we using the DF capabilities of APRS?

For Bob, who asked the question, and the rest of the gang here on the SIG, this incident might give some credibility to the value of APRS for DF work. In this case, during an "emergency":

Recently a local (very newly licensed) ham (N3UMJ) tentatively piped up on the local 146.61 Radio Association of Erie club repeater saying that he had just seen a marine emergency flare either over Presque Isle Bay or Lake Erie. Another ham (N8XJS) visiting the area was at the entrance to Presque Isle saying that he too had observed not one but two flares.

Being the local Deputy A.R.E.S. EC, I jumped into the conversation saying I would call the Coast Guard with the info. Could I get more details?

The first ham was driving down I-79 toward the Lake and his flare sighting was directly ahead. The second ham was at the entrance to the peninsula park at the second parking area and saw the flares in line with a large boat marina on the opposite side of the bay. This was all the info I needed!

As usual APRS was running in my shack providing local hams with gateway HF and WIDE digi service. I zoomed into the area of Erie and the Presque Isle State Park. We have highly accurate, digitized maps down to street level provided by our local map maker N3PYH, Dave.

I did a range and bearing plot for the ham driving down I-79 using the direction of I-79 as his bearing. After the bearing was determined I plotted a DF line from I-79 out over the bay. Using range and bearing from the second ham's location, I created an intersecting line on the bay waters. I placed my curser on the intersection giving me a lat/lon and called the Coast Guard.

A Coast Guard Petty Officer answered the phone and I explained that two hams had sighted flares over the bay and I had a location. I gave him the lat/lon location and he told me that there were several things going on there could he put me on hold. I waited about one minute on hold and he picked up the phone again.

He sounded very excited about our report saying the position given was within 100 yards of the location of the incident. He was literally dumbfounded with my accurate location information. Of course, it was "no problem" for me to determine a very accurate lat/lon using normal APRS operations!.

Just in case you're interested in what the incident was--several times a year the local Power Squadron holds exercises with the Coast Guard on boat safety. This was a flare use and sighting exercise for Squadron members where the boat having the "emergency" was sent to a specific location on the bay from which flares would be launched so that members of the Squadron could practice locating the vessel. We won the contest!

73, Dave, N3E0Y

392. Re: [APRSSIG:1336] Re: MFJ Data Radio Avail.

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Sun, 21 May 1995 07:32:46 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505211232.HAA12141@solar.cs.tamu.edu>
Rendered body type: text/plain

rwf sez:
>
> >I did not, however, take any of the in-stock units; Mine are "special
> >ordered" with 145.79 and 145.03 crystals. MFJ charges the same \$24.95
> >extra as if you bought the crystals separately, but they will install
> >and test them before shipping.

> MFJ: Are you listening?!?!
> ...
> Why not sell the radio without xtals, allowing the dealers to stock the
> "popular" ones. The final price could be the same once both items were
> bought. The dealers could determine what the active freqs were in the area.
> Of handle the xtals with an xtal certificate that is included. The customer
> mails the certificate to MFJ. MFJ drops the proper xtal (from stock) into
> an envelope and the user is all set to go in a few dayd.
>
> It is strange to be forced to spend another 20% or so of the original cost
> of the radio to recrystal just so we can throw away the ones that we don't
> want (but were forced to buy).

It's not fun, but it is, pretty much, the industry standard. Tekk does the same thing, both in the Amateur and commercial markets. I don't appreciate having to pay to recrystal the radio, BUT it means I can order crystals of known quality, from Marden or International. (I rarely bother with the others any more!)

Back in the "Good Old Days," (tm) those crystal certificates were purchased from the several crystal manufacturers. Some of the manufacturers might keep a stock, but it tended to be for the popular channels, and not for the oddball stuff.

I'd offer, too, that while setting something on-channel requires little more than a cliplead and a counter, some folks will mis-tune their radios by missing the trimmer cap and tweaking something else. I suspect MFJ wanted to take the "safe approach" and tune 'em up themselves.

Personally, I'd support the crystal certificate referenced back to the manufacturer.

73, Gerry N5JXS
gerry@cs.tamu.edu

393. APRS Balloon Flight Info

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Sun, 21 May 1995 08:39:14 -0500
To: aprssig@tapr.org
Message-ID: <199505211339.IAA08698@home.interaccess.com>
Rendered body type: text/plain

On 20 May at about 1115 CST the Near Earth Space Group with the assistance of MacMaven Keith, WU2Z launched a balloon package from near Baraboo Wisconsin. Our calculations may have had a bug in them as balloon didnt seem to climb out like we thought it would, and to further confuse the issue the Motorola card quit sending GGA data at 10,000 meters. It did however continue with VTG which showed a path of due east at about 60 MPH. When we last got a "good" GGA packet it was near Horicon Wisconsin.

MacAPRS balloon predictions showed it would cross Lake Michigan near Port Washington and continue across Lake into Michigan proper. Fat chance we thought and said goodbye to the payload as we felt sure it was off to a watery end.

Guess what ? we recieved a call last night and someone found it hanging from a tree in Muskegon Michigan. Dave KA9NHL and Keith are off picking it up now.

200 miles + across open water and it just makes the shore...
is WU2Z good luck or what.....

73
Ed
N9LCI

394. RE: [APRSSIG:1338] Re: MFJ Data Radio Avail.

From: Tim Smith <TSMITH@fibusa.com>
Date: Sun, 21 May 95 10:14:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <2FBF6E97@ipnovell.fibusa.com>
Rendered body type: text/plain

Why all the fuss over data radios...\$120 is too much to dedicate even for me. Browsing a local flea and auction this weekend yielded an old Wilson HT for \$17, a Clegg FM27B for \$35, Motorola HT220 for \$35, a converted SSB CB on 10 for \$20 (new up and coming 10 meter beacon)...and many other goodies for cheap...all working! A few TNC's (PK80's and 88's showing up for \$40-50).

Don't limit yourself to over-the-counter buys....get out there and haggle!
It's fun!

73,

Tim N1BTQ

395. Re: [APRSSIG:1350] APRS Balloon Flight Info

From: huckabay@onramp.net
Date: Sun, 21 May 1995 12:45:43 -0500
To: aprssig@tapr.org
Message-ID: <199505211745.MAA25840@ns.onramp.net>
Rendered body type: text/plain

where did baloon launch originate from?
Rod

396. [APRSSIG:1352] Re: APRS Balloon Flight Info

From: huckabay@onramp.net
Date: Sun, 21 May 1995 13:45:51 -0500
To: aprssig@tapr.org
Message-ID: <199505211845.NAA29089@ns.onramp.net>
Rendered body type: text/plain

<---- Begin Included Message <---->
Date: Sun, 21 May 1995 13:06:41 -0500
From: huckabay@onramp.net
Reply-To: aprssig@tapr.org
Subject: [APRSSIG:1352] Re: APRS Balloon Flight Info
To: aprssig@tapr.org

where did baloon launch originate from?
Rod

<---- End Included Message <---->

397. Re: [APRSSIG:1344] VERSION 6.9

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Sun, 21 May 1995 16:14:15 -0700
To: aprssig@tapr.org
Message-ID: <199505212314.QAA00824@ix2.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>
> HI,
>
>
> I have just downloaded the new version 6.9,from my computer and
>copy it to a floppy. just unzip it on my laptop andtry to start the
>program.
>
> it went thru the begining and after entering all the details.it
>is suppose to start with the USA MAP.BUT I RECEIVED THIS MESSAGE:
>
> can not run maplist.usa
>
> stop line 0 of module aprs 9w at address 221a:498a
>
> please let me know how to fix the problem.
>
>
> Barry ka2oyf

Did you zip the original properly with the "-rp " switch? Did you unzip with the "-d" switch? Where did you unzip it to - a floppy or a hard drive?

Working yet?

Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

398. Re: [APRSSIG:1354] Re: VERSION 6.9

From: goldnite@ix.netcom.com (BARRY BRYANT)
Date: Sun, 21 May 1995 17:39:50 -0700
To: aprssig@tapr.org
Message-ID: <199505220039.RAA09548@ix5.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>

>You wrote:

>>

>>

>> HI,

>>

>>

>> I have just downloaded the new version 6.9, from my computer
and

>> copy it to a floppy. just unzip it on my laptop and try to start the
>> program.

>>

>> it went thru the beginning and after entering all the
details it

>> is supposed to start with the USA MAP. BUT I RECEIVED THIS MESSAGE:

>>

>> can not run maplist.usa

>>

>> stop line 0 of module aprs 9w at address 221a:498a

>>

>> please let me know how to fix the problem.

>>

>>

>> Barry ka2oyf

>>

> Did you zip the original properly with the "-rp" switch? Did you
unzip with

> the "-d" switch? Where did you unzip it to - a floppy or a hard
drive?

>

I first downloaded from a local bbs to my hard drive, then to a
floppy. Then downloaded it to my laptop.

I used -d to unpack it? please explain -rp?

barry

?

>

>--

--

>

>

399. HABET5.HST uploaded to FTP.TAPR.ORG

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>
Date: Sun, 21 May 1995 19:42:17 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <950521194217.91ec@dsm1.dsmnet.com>
Rendered body type: text/plain

Iowa State University Spacecraft Systems and Operations Laboratory
flew the latest High Altitude Balloon Experiments in Technology (HABET)
mission on 19 May. An APRS track history file has been compiled from
downloaded GPS NMEA navigation records. This file, HABET5.HST, has
been uploaded to FTP.TAPR.ORG in /tapr/SIG/aprssig/upload. It contains
almost 800 data records at 10-second intervals and makes good use of
Bob's new 3-D capabilities.

Regards, Ralph Wallio, W0RPK

400. Re: [APRSSIG:1353] Re: APRS Balloon Flight Info

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Sun, 21 May 1995 19:49:20 -0500
To: aprssig@tapr.org
Message-ID: <199505220049.TAA06514@home.interaccess.com>
Rendered body type: text/plain

>
><----- Begin Included Message ----->
>Date: Sun, 21 May 1995 13:06:41 -0500
>From: huckabay@onramp.net
>Reply-To: aprssig@tapr.org
>Subject: [APRSSIG:1352] Re: APRS Balloon Flight Info
>To: aprssig@tapr.org
>
>where did baloon launch originate from?
>Rod
>
>
>
><----- End Included Message ----->
>
>
>Rod,

Just NW of Baraboo WI, near a small town called Union Center.

about 4340.20N\09013.96W

73 Ed
N9LCI

401. Message for Keith WU2Z

From: MLE7083@aol.com
Date: Sun, 21 May 1995 21:51:45 -0400
To: aprssig@tapr.org
Message-ID: <950521215109_126827291@aol.com>
Rendered body type: text/plain

Keith, can you pass along the FTP address for the USGS maps?
I didn't get a chance to get it Saturday....hope you had a good
flight home

Mark Elliott de N9WST

402. APRS Mobile Help

From: Chicagowx@aol.com
Date: Sun, 21 May 1995 22:00:13 -0400
To: APRSSIG@tapr.org
Message-ID: <950521220011_126831759@aol.com>
Rendered body type: text/plain

Hi,
Its me, Ron. I just been speaking with a couple of people and I have a better understanding of GPS since I participated in a Balloon Launch in WI, running APRS. I have a few questions, since I want to make my Mobile operation as hidden as possible, I am starting to also consider getting a MOTOROLA CARD GPS (OEM) Okay being very stupid.. What is this Motorola card everyone is talking about? It seems very reasonable, in price, but what is it? Just a circuit board? How do you attach the antenna, where do you purchase or how easy is it to build an antenna? I have the Meridian, and still hunting for a connector for the data/power, but no luck, so I better just buy one.... Plus I am still trying to figure out how to mount a GPS antenna outside, I tried a 2m 1/4w, and nothing, so it needs to be an active antenna, but is the one that Magellan sells good? I want to put it on the trunk, magnetically. And I am going to use my HT or possibly buy a data radio, but I guess I may want to simply simplify my GPS to something small, and put in the trunk. N9LCI recommended me to look at these cards, how do they differ from the Magellan as far as quality? I am gonna keep my magellan as a portable display unit, or a 2nd tracking setup, cause I will have 2 KPC-3 v6 by June 4th. There was something about programming the card also, this sounds difficult.... Whats all involved?
Ron

403. Re: [APRSSIG:1359] APRS Mobile Help

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 21 May 1995 21:34:34 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505220234.VAA16621@solar.cs.tamu.edu>
Rendered body type: text/plain

The Motorola "card" I think you're refering to is the PVT-6 series of receivers, burrently called the OnCore line.

hese are 6 and 8 channel receivers that run of of 5 vDC or 12 vDC depending on which card you select.

the VP OnCore is a 5 vDc model with ttl outputs. It expects an active antenna unless you order it with the ~\$20 onboard LNA preamp. Works well. I'm in the proces of putting 20 of them literally out in a field on cows. The antenna connector is an OSX connector made by M/A-Com and sold ONLY by Penstock.

There's and XT OnCore that, if memory serves correctly is in a metal box. It is 12 vDC powered and has RS-232 levels out. Works good. Has a BNC connector on the box for output. Motorola wants a bit too much for the provelege of a metal box and BNC, tho', in my opinion.

Programming the thing to do NMEA is not hard, given the fact that thee are a number of internet sources for the Motorola GPSxx (40,70 or 90) evaluation monitoring program.

Technically, I've been very happy with the Motorola GPS engines as far as interface and capabilities. The customer support is kinda grim sometimes if you have the official eval kit and support, but the hardware is sound and they give you good solid documentation.

If you have more soecific questions, let me know.

73, gerry N5JXS
gerry@cs.tamu.edu

404. UNPROTO not set to APRS VIA RELAY at startup

From: George Vincent Chapek <chapeg@rpi.edu>
Date: Sun, 21 May 1995 22:55:29 -0400
To: aprssig@tapr.org
Message-ID: <199505220255.WAA25897@alum01.its.rpi.edu>
Rendered body type: text/plain

I'm using the shareware version 6.9. When I startup APRS, I get the "APRS did not see a repeat of your last packet" messages. When I did the "U" command it showed that the via was "CQ". When I changed it to RELAY, everything started working ok. I thought APRS initted UNPROTO to APRS via RELAY at startup. What am I doing wrong?

George Chapek N2AIG
chapeg@rpi.edu

405. Tracking Sailplanes, First Success (long)

From: parker@rincon.com (Mike Parker)
Date: Sun, 21 May 1995 21:32:44 -0700
To: aprssig@tapr.org
Cc: chip@cyber.net
Message-ID: <199505220432.VAA07924@mailhost.primenet.com>
Rendered body type: text/plain

On 6/21/95 sailplane 71 being flown by Allen Reeter in the Arizona Soaring Association Contest series was successfully tracked by Mike Parker, KT7D. The sailplane was tracked over 2/3 of the 180 mile course around El Tiro gliderport NW of Tucson. Range without digipeating was about 40 miles. Within this range, reception was very reliable.

A handi-talkie with a rubber duck antenna, PacComm handi-packet, and Garmin 95AVD GPS receiver were stuffed into a compartment just above the wings. The installation was completed using a sizable portion of a roll of 100 mph duct tape. The GPS receiver had no problem receiving through the fiberglass skin of the glider. No interference was experienced between the GPS and the 145.79 MHz transmitter even though the antennas were separated less than 1 foot.

The ground equipment was a 1/4 wave mag mount on a car roof and a GAs preamp driving

a 2 meter mobile rig, TNC, and laptop. The terrain was flat and un-obscured in the direction of flight. APRS software was used for map displays

The main technical glitch was discovery of RFI from the TNC which disappeared when its 9-pin data connector was disconnected. The RFI broke the squelch of the air-ground communications radio tuned to 123.3 MHz., and was annoying enough to cause Allen to turn the air-ground radio off for most of the flight. He noted that it seemed to get worse as the sailplane's speed increased. Testing after the flight revealed that it was definitely coming from the TNC, 123.3 MHz was one of the worst frequencies, and that it changed with GPS mode.

Allen won the "A" class this day. He felt that having everyone watching him made him more alert and enhanced his performance. Favorable comments were received from the ground crews as they watched his progress around the course. Soaring conditions were good and ground speeds at times were 130 knots between thermals.

At one point another sailplane called and asked if the tracking was working. When told yes, he said to tell his crew that he was circling in a thermal right under 71.

This is believed to be the first public demonstration of telemetering and displaying sailplane tracks.

Plans for a demonstration of sailplane tracking during the Region 9 contest near Phoenix continue. Test transmissions will begin next Sunday. Gerry Creager, N5JXS, has volunteered to supply a package for a second sailplane. If he succeeds, we will experiment with digipeating between sailplanes on some of the flying days. This should greatly extend the usable range.

Correction to my last mail, the coordinates of the Estrella sailport where the region 9 contest is to be held are:
33 deg 05 min north, 112 deg 09 min west.

Mike Parker
Ham Call, KT7D
Sailplane Contest Number, IC

406. Re: [APRSSIG:1342] Re: Tracking sailplane near Phoenix and Tucson

From: johnbeal@aztec.asu.edu (JOHN L. BEAL)
Date: Sun, 21 May 1995 21:45:21 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <9505220445.AA25973@aztec.asu.edu>
Rendered body type: text/plain

>

>Activity in the Phoenix area is mostly on 147.10 mhz repeater,
>up 600. There is some 145.79 activity from time to time.
>For some reason 145.79 has not caught on. If you use 147.10 mhz
>please set your unproto path to 'none', because on a repeater
>this causes less useless beaconing of your signal. This is a
>mountain top repeater. You will also see a BBS (Kc7y) on this
>frequency. Good luck on APRS
>73, George - W8FWF

>####

>

>

Unless I am mistaken, the question was about a digital simplex
repeater and I do not think 147.10 is correct. I get kc7y bbs
on 147.75 or 147.07.
de WA9UKH

--

John L. Beal Personal responsibility
Running Windows 3.1

407. MFJ crystals

From: jeff.brenton@espi.com
Date: Sun, 21 May 95 23:37:26 -0500
To: aprssig@tapr.org
Message-ID: <9505212337.0X6QW06@espi.com>

Rendered body type: text/plain

As we've all been discussing the MFJ and its crystals, howabout the first person who gets one putting the specs for ordering crystals here on the mail list? That way, we can go about the business of ordering the crystals at the same time we order the "wrong" units! [grin]

□ KWQ/2 1.2a □ "640K ought to be enough for anybody." - Bill Gates, 1981

408. Bargain radios

From: jeff.brenton@espi.com
Date: Sun, 21 May 95 23:37:30 -0500
To: aprssig@tapr.org
Message-ID: <9505212337.0X65X06@espi.com>
Rendered body type: text/plain

Tim Smith mentioned the availability of much cheaper radios for APRS work, and I agree - to a point.

That point is that of standardization of stations. In my case, we're trying to standardize a package that will put a weather station on APRS in each of 20 townships in our county. I'd love for it to be more, but even getting the 20 will be a struggle.

These packages will be, as much as possible, interchangeable, so we need a source of standard radios. At first, we were going to standardize on Radio Shack HTX-202s, because they're easy to get, relatively inexpensive, and have darn good receivers. Now, it may be the MFJ, pending our tests at the EOC, where our first weather station is now on the air, and two new MFJs are due "real soon now".

For years, we've been having to make due with hand-me-downs and what we could get donated; the MFJ's will be the first *new* amateur radios in our RACES division in over a decade (has it REALLY been that long since I joined!?!).

□ KWQ/2 1.2a □ "640K ought to be enough for anybody." - Bill Gates, 1981

409. Disturbing Answer

From: wnoille@fly.HiWAAY.net
Date: Sun, 21 May 95 23:43:59 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950522000031.wnoille@wnoille.HiWAAY.net>
Rendered body type: text/plain

While running our local APRS there was a station WA4KBD which is running a HF gate. I asked him if there was any objection to us beaconing our position through his gate to HF. I was rather upset with his answer in that he told me that Bob Bruninga made a statement that it would clutter up the HF map too much. Well first I would like to find out if in fact this statement was actually made. Because if this is the case then it's only fair that this works both ways. I started my computer this morning and had 3 screens full of APRS users, this makes about 48. Of course most of those were HF stations. Now we never complained about the HF stations cluttering up our map. What good is it to us VHF users to see the HF stations interfering with our operation if it's just to show us that they are there?. I can already see the problem trying to sell Skywarn on this idea which by the way is what we are trying to do (Use APRS for heavy weather conditions like all the tornados we just had here in North Alabama and Tennessee). I can't really believe this statement was made. If so I for one am going to give up APRS even though I have been working hard to get it organized here, and we are finally making headway. I have been using APRS since its inception and have several stations set up of which one is a WX station and another is a wide area digi that carries my call. I don't mind telling you that this really has me upset. To have Wide area HF digi's springing up in our area that are useless to us is just not going to cut it.

---====<< Bill KE4EER >>====---

410. Hookup Help

From: JeffS5@aol.com
Date: Mon, 22 May 1995 01:26:26 -0400
To: aprssig@tapr.org

Message-ID: <950522012624_127239190@aol.com>

Rendered body type: text/plain

Hello All,

I've been watching this listserve for quite a while and finally decided I'd try and hookup the GPS my PB-145 (I've used the TNC input in the past but am now attempting GPS to Mac)

I have a Garmin GPS-75 and wired the data out to the Mac DIN pin 5 (should be data In). I'm totally unfamiliar with protocol between the two. I see various setups in the MacAPRS GPS setup file but it looks like they deal with Motorola & Magellan only. I see little from Garmin to point me in the right direction. Has anyone attempted GPS-75 to MacAPRS ? I could use the help.

Additionally, I intend to use an existing PK-88 for the TNC. Am I in trouble with this TNC for APRS?

I do RF a whole lot better than software and the RF is done. All I need now is a software expert to talk to.

Thanks in Advance!!

Jeff - WA6EQU@K6VE

E-Mail: JeffS5@aol.com (or) WA6EQU@aol.com

411. New user question

From: Swilsonac6@aol.com

Date: Mon, 22 May 1995 03:01:35 -0400

To: aprssig@tapr.org

Message-ID: <950522030132_127264320@aol.com>

Rendered body type: text/plain

I am a "new user" of APRS 6.8. using a KAM +. I have only a HF station. When I try to change my unproto path from "none" to "gate, wide" which seems common on 10.151, I get a warning message about using gateways to link from VHF to HF. I have not been on VHF since I sold my Heathkit "Twoer" thirty years ago but seem to be doing something wrong. Any suggestions ??
Thanks, Steve AC6DR

412. Re: [APRSSIG:1355] Re: VERSION 6.9

From: dvelez@ix.netcom.com (Daniel Velez)

Date: Mon, 22 May 1995 04:21:24 -0700

To: aprssig@tapr.org

Message-ID: <199505221121.EAA22704@ix2.ix.netcom.com>

Rendered body type: text/plain

You wrote:

>

> I frist downloaded from a local bbs to my harddrive, then to a
> floppy. Then down loaded it to my laptop.

>

> I used -d to unpack it? please explain -rp?

>

> barry

Barry-

When you pack it, you must use the -rp switch to embed the subdirectories...if you got a zipped copy off the BBS then this is probably not your problem.

Do you have the following subdirectories present?

HSTS all files *.hst
LOGS all files *.log
MAPS all files *.maps
BAKS all files *.bak
SYSTEM all files *.sys and all the TNC setup files (resore.tnc and a couple TNC INIT files)

Does it unzip and run properly on your PC? How about manually moving the files to their proper location based on the PC model??

Lastly, it's possible you downloaded a corrupt version...download again?

Let me know-

Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

413. Re: [APRSSIG:1360] Re: APRS Mobile Help

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Mon, 22 May 1995 04:31:25 -0700
To: aprssig@tapr.org
Message-ID: <199505221131.EAA23996@ix2.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>The Motorola "card" I think you're refering to is the PVT-6 series of
>receivers, burrently called the OnCore line.
>
>hese are 6 and 8 channel receivers that run of of 5 vDC or 12 vDC depending on
>which card you select.
>
>the VP OnCore is a 5 vDc model with ttl outputs. It expects an active antenna
>unless you order it with the ~\$20 onboard LNA preamp. Works well. I'm in the
>proces of putting 20 of them literally out in a field on cows. The antenna
>connector is an OSX connector made by M/A-Com and sold ONLY by Penstock.
>
>There's and XT OnCore that, if memory serves correctly is in a metal box. It
>is 12 vDC powered and has RS-232 levels out. Works good. Has a BNC connector
>on the box for output. Motorola wants a bit too much for the provelege of a
>metal box and BNC, tho', in my opinion.
>
>Programming the thing to do NMEA is not hard, given the fact that thee are a
>number of internet sources for the Motorola GPSxx (40,70 or 90) evaluation
>monitoring program.
>
>Technically, I've been very happy with the Motorola GPS engines as far as
>interface and capabilities. The customer support is kinda grim sometimes if
>you have the official eval kit and support, but the hardware is sound and they
>give you good solid documentation.
>
>If you have more soecific questions, let me know.
>
>73, gerry N5JXS
>gerry@cs.tamu.edu
>
Thanks Gerry...I am going to retrieve GPS90 from you later today...I seem to
have all the bugs figured out. It was my inexperience that caused most of the
problems...the unit works fine.

I'll let you know how it goes!

73 de Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

414. Re: [APRSSIG:1352] Re: APRS B...

From: Chicagowx@aol.com
Date: Mon, 22 May 1995 07:35:12 -0400
To: aprssig@tapr.org
Message-ID: <950522073510_127298541@aol.com>
Rendered body type: text/plain

The Balloon Launch originates at Hullsboro, WI about, I'd say 10-15 miles WNW
of Baraboo, WI.

415. Where is GPS90?

From: Larry Griffin AB5GE <largriff@onramp.net>
Date: Mon, 22 May 1995 07:31:14 -0500
To: aprssig@tapr.org, gerry@cs.tamu.edu

>by the way is what we are trying to do (Use APRS for heavy weather
>conditions like all the tornados we just had here in North Alabama
>and Tennessee). I can't really believe this statement was made.

Why can't APRS Skywarn and APRS HF nets
work in your area? They work everywhere else.

I would welcome WX reports from stations on HF.
I would find these reports from outside my area a
great resource, as a VHF APRS SKYWARN net
has it's limits.

> If so i for one am going to give up APRS even though i have been
>working hard to get it organized here, and we are finally making
>headway. I have been using APRS since it's inception and have
>several stations setup of wich one is a WX station and another is
>a wide area digi that carry's my call.

If you have been a user of APRS since the start, you
have seen many changes in the program. What changes
have you made? APRS, packet and ham radio in general
are made up of many different ideas and opinions. Have
you put yourself in the other guy's shoes? What if his idea
of an APRS net in your area is to keep up-to-date with his
friend who is in a RV going across the USA. Another user
that has different ideas other than your's may feel YOU are
the problem! How many packets do your two stations put
out in an hour?

> I don't mind telling you
>that this really has me upset. To have Wide area HF digi's springing
>up in our area that are useless to us is just not going to cut it.

>-----<< Bill KE4EER >>-----

Most folks would not flame a new user just because
he is following the ideas found in the doc files of APRS.
What guide did you use when you started in APRS?

Many of the people on this APRS SIG have gone
through the same problems you have gone through,
or will face in the future of your area's APRS network.
As ham's, our whole hobby is built on communication.
Why don't you set up an APRS user group in your area.
If there was an outlet for problems and future plans, there
could be some order in your area. Many people in your area
may not have any idea what type of APRS station is needed
in your area.

Without some help and education from APRS elmers, many
new APRS'ers give up on APRS. What can YOU do to better
educate the APRS'ers in your area? How many club meetings
have you done an APRS demo? Have you done demo's for
clubs, other then your own? Did you make it to Dayton for the APRS
forums, TAPR dinner or the APRS EYEBALL so you could be a
better, more educated user?

We on the APRS SIG would like to be a help with APRS users.
More and more, I see people on the SIG with problems, that
in most part, are local communication related problems. Bill, I
feel you just need to work on getting an APRS group together
in your area. There are very few hams that can build an APRS
network without the help of others.

With a positive role model in your area, you can work towards
an APRS network that fits the needs of all users.

73,

Steve Caesar AA8JK/VK4SID
Tri-State APRS Working Group

AA8JK@AOL.COM

423. Map Demo for APRS DOS Users

From: eashway@VNET.IBM.COM
Date: Mon, 22 May 95 13:28:01 EDT
To: aprssig@tapr.org
Message-ID: <199505221731.MAA06451@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

MAPTACH Demo

MAPTECH.ZIP, 956,160 bytes, has been uploaded to ftp.tapr.org and is in:

tapr/SIG/aprssig/upload

This demo is normally provided FREE on a floppy disk by:

RESOLUTION MAPPING, INC.
35 Hartwell Avenue
Lexington, MA 02173 USA
PHONE (617) 860-0430
FAX (617) 860-0505

It is being made available to demonstrate to APRS DOS users that good mapping technology is not limited just to MacAPRS users. While Maptech is a commercially available product, this is a FREE demo of that product.

THIS DEMO IS NOT A COMMERCIAL PRODUCT

To install and execute the demo follow these 6 steps.

1. Download the MAPTECH.ZIP file.
2. Use PKUNZIP to recover the 6 files it contains.
3. Copy all 6 files to a blank floppy. (The program was originally shipped on a 3.5" 1.4MB floppy, and still likes to do it's thing from a floppy.)
4. Execute INSTALL.EXE from A: or B:.
5. If all went well, the install procedure should have created a directory called MAPDEMO on the drive you specified and will contain 36 files.
6. Execute the Maptech demo by changing to the MAPDEMO directory using the 'CD\MAPDEMO' command. Then issue the command 'DEMO'.

424. TRIMBLE GPS Unit

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Mon, 22 May 95 10:28:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <2FC0AE3D@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

This past weekend I finally got around to trying to hook up my TRIMBLE Aviation Handheld GPS unit to APRS.... Well no workee (Trimble to HSP to KAM3 to Notebook - Toshiba).... so I hooked the Trimble to the Notebook and saw two kinds of messages... seeing all the postings here I reprogrammed the Trimble to just spit out RMC messages... I verified the GPS unit was spitting out just RMS msgs... then hooked things back up again.. still no workee.... since I don't see any "troubleshooting" documentation (no complaints on my part by the way.. I still think Bob B has done a great service in developing this software) what advice can I solicit from you folks about getting further along in finding out why I can't get my software to plot?? Also, I'm kinda confused (nothing new...) but I'm still in the "gee I'm curious mode"... do I still have to send in a pmnt just to see just my position plotted on the screen map? The software I'm running is that which came with the KAM-3 a month ago.. so it's not the latest.. but still it must have worked... I thought I read somewhere where I could just hook the GPS to APRS - not using a TNC.... but can't seem to find any instructions for this dummy to do just that.... HELP....

THanks in Advance

AL

AH6LS

sadowskp@usafcrqsnelis.af.mil

425. RE: [APRSSIG:1365] Bargain radios

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Mon, 22 May 95 10:45:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <2FC0B247@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Having seen the following line in a couple of postings I just had to comment

" KWQ/2 1.2a "640K ought to be enough for anybody." - Bill Gates, 1981"

Actually it was an IBM decision by the original PC group... and the architecture was really only intended to support the lower 512KB... the way the hardware progressed decoding wise gave 128KB more so that's part of it.... and 10 times 64K (the original large memory option) was also at 64KB. Ergo... they (IBM) allowed for a factor of ten in memory growth... from the perspective of the time that was real good.... forward thinking... now - in retrospect - a significant limit. Even more limiting is the segmentation architecture INTEL has forced upon us as a legacy.... these 64KB memory segments are a legacy of the 8008-8080 hardware... the intent being a "smooth" transition from 8080 code to the 8086 family.... Tis all a shame... Motorola and National and Zilog all had flat memory architecture chips available at the time - - and the Motorola and National parts were intended to be growth parts with 32 bits in mind from the beginning..... far in advance of what the INTEL X86 architecture gave us at that time.... BTW... We're still running 16 bit code due to Gates... not unless you are running NT (not even Windows 95 is full 32 bit enabled) are you really on the 32 bit bandwagon with INTEL architecture parts - - despite support in the hardware since 386..... this 32 bit stuff is just starting while the newer RISC parts available are 64 bit implementations (SPARC, MIPS, PPC)..... I have to admit though... doggone few problems are in need of a 64 bit solution.... sure makes string compare's go fast... as well as data movement.... as Gordon Bell always said.... computer architectures keep coming back to the same issues - - and very similar solutions....

So what has this to do with APRS.. nothing I guess.... sorry but I'm in a good mood as my APRS feed has started back up again.....

AL

AH6LS <--- maybe taking on some aspects of California Callsign - but still a Hawaii 1
sadowskp@usafcrqs.nellis.af.mil
Aloha
I can laugh at myself... HA... why be serious

426. Re: [APRSSIG:1379] Outage

From: Greg Jones <gjones@tenet.edu>
Date: Mon, 22 May 1995 13:36:34 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505221836.NAA25379@Alice-Thurman.tenet.edu>
Rendered body type: text/plain

All the TAPR lists keep a counter of messages that have problems getting delivered....when that limit is hit, users are put on postponed. That was something we worked out with the location that is providing us access. So, if your system has any problems during a short period (for APRS SIG especially) then you get postponed. I believe that the level is set to 5 messages currently. For APRS SIG, this could mean that you have system problems (network problems) for 1 day.

I'll check further and get it bumped up for this group...but this limiter helps TAPR.ORG reduce the amount of return mail to the site we are on...trying to be firendly.

Cheers - Greg, WD5IVD

According to Sadowski,P CPT USAF CRQS/RQEN:

>

>

> For some reason I had a list-server outage for Friday, Sat, and Sunday
> (19,20,and 21 May... I resubscribed this morning... and started getting a
> feed again shortly afterwards... Are you automatically removed after a
> certain period of time? My only access to internet info is E-Mail - - due
> to the .mil "firewall" that only allows E-Mail to cross over to my
> location.... so I love List-Servers.... please E-Mail any items of general
> interest to me for those days... I'd really appreciate it...
>
> Thanks in Advance

> AL
> AH6LS
> sadowskp@usafcrqs.nellis.af.mil
>

427. Bug in version 69 i believe.

From: wno1le@fly.HiWAAY.net
Date: Mon, 22 May 95 14:39:14 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950522144233.wno1le@wno1le.HiWAAY.net>
Rendered body type: text/plain

Bob, you need to know the following information what i believe to be a major bug in release 69. Bob i believe you have made some changes as to the DF bearing line. Well when i do the following i get tossed back to DOS.

>From my QTH i enter a bearing of 188 degree, signal value=8. Then i move to a location 28 miles down from my qth (Which in my case would be the TN River bridge), and zoom into this area down to the .125 mile area i get the following message!, then get tossed out to DOS.

OOPS! ERR number 6
Wyandotte

RNG .5 MILES
LM,PM:0 0
A,I,J,K,FDx.LDx:-1 0 1 66 0 0
X,Y,X1,Y1-9551,264 -7880,344 -9551,264 -7880,344
A\$ Q
C\$
ES\$ IN DRWUNIT

Hit Enter to return to DOS.

This of course makes this version unexeptable for DF'ing Hi.. Now the strange thing is, it will not do this unless there is a DF bearing line on the screen. Another thing that may help is that i had another user place the bearing on the map for me (From the same point at my QTH), i then zoomed in and it again dumped me to DOS, yet without a DF bearing line everything is fine.

--==<< Bill Nolle >>==--

428. Information on GPS

From: "Bill Houghton" <whoughton@igc.apc.org>
Date: Mon, 22 May 1995 15:04:56 +0000
To: aprssig@tapr.org
Message-ID: <199505222007.NAA01336@igc3.igc.apc.org>
Rendered body type: text/plain

I'm very new at this and thinking of buying a GPS. Is there someplace that I can read comparisons of different models with cost/performance data? Is it worth spending more (or waiting) or are the models which I see for 250-300 OK? (Garmin and Magellan)
Also, what about info on hooking up directly to a PC?

Thanks for any help!

Bill

429. ipaddress

From: "Fourquet, Huey SMSgt SNCOA" <hfourquet@b1143s1.ssc.af.mil>
Date: Mon, 22 May 95 16:40:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <2FC1214D@smtpnov.ssc.af.mil>
Rendered body type: text/plain

Can someone help me with the ip address for tapr.org
I've tried an nslookup but got a negative reply.

Thanks
Huey

430. Re: [APRSSIG:1385] Bug in version 69 i believe.

From: theojkat@omni.voicenet.com (Ted Katz)
Date: Mon, 22 May 1995 18:16:33 -0400

To: aprssig@tapr.org
Message-ID: <950522221.AA14231@voicenet.com>
Rendered body type: text/plain

>Bob, you need to know the following information what
>i believe to be a major bug in release 69. Bob i believe you
>have made some changes as to the DF bearing line. Well when i
>do the following i get tossed back to DOS.
>
>>From my QTH i enter a bearing of 188 degree, signal value=8.
>Then i move to a location 28 miles down from my qth (Which in
>my case would be the TN River bridge), and zoom into this area
>down to the .125 mile area i get the following message!, then get
>tossed out to DOS.
>-----
>OOPS! ERR number 6
>Wyandotte
>
>RNG .5 MILES
>LM,PM:0 0
>A,I,J,K,FDx.LDx:-1 0 1 66 0 0
>X,Y,X1,Y1-9551,264 -7880,344 -9551,264 -7800,344
>A\$ Q
>CS\$
>ES\$ IN DRWUNIT
>
>Hit Enter to return to DOS.
>-----
>This of course makes this version unexeptable for DF'ing Hi..
>Now the strange thing is, it will not do this unless there is a
>DF bearing line on the screen. Another thing that may help is that
>i had another user place the bearing on the map for me (From the
>same point at my QTH), i then zoomed in and it again dumped me
>to DOS, yet without a DF bearing line everything is fine.
>
>---==<< Bill Nolle >>===--
>
>
I have a simular problem but I was not using DF, At least I don't think so.
I was zooming in on KC to see what was there.

oops dos error 6
Ted :->

431. Re: [APRSSIG:1369] Re: VERSION 6.9

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Mon, 22 May 1995 15:52:30 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950522154925.352B-100000@steroid.ecst.csuchico.edu>
Rendered body type: text/plain

Barry your confusing the heck out of the poor boy, he could care less about the packing the darn program by using the -rp switch that only keeps all directories and subdirectories intact when zipping the darn thing. He does not wish to zip it but unzip it and he did use the -d. Why not just tell him that when he starts up aprs69 to use the following command at the dos prompt, type; aprs69 /new that will do it for you 73's and good luck.

Brad

432. Re: [APRSSIG:1369] Re: VERSION 6.9

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Mon, 22 May 1995 15:54:00 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950522155322.352C-100000@steroid.ecst.csuchico.edu>
Rendered body type: text/plain

sorry that note regarding the command should have been read by Dan who is really confusing Barry...73's gentlemen

Brad

433. Re: [APRSSIG:1368] New user question

From: huckabay@onramp.net
Date: Mon, 22 May 1995 18:17:36 -0500
To: aprssig@tapr.org
Message-ID: <199505222317.SAA24721@ns.onramp.net>
Rendered body type: text/plain

The message saying something like this "you are using gate in your path...it will clutter etc.etc" go into the root directory and edit the config file (cfig66a.apr, or whatever it will have extension of .apr) find the vhf line and retype it in lower case. That should take care of the problem.
Rod
KA5EJX

434. Re: [APRSSIG:1293] Report on ...

From: N9RLR@aol.com
Date: Mon, 22 May 1995 20:36:29 -0400
To: aprssig@tapr.org
Message-ID: <950522203628_127650690@aol.com>
Rendered body type: text/plain

I think APRS has a significant possiblity with DF'ing we here in the Central Illinois area are working with the Roanoke Doppler Board and N7LUE APRS interface board. When everything is operational with the GPS, Doppler, and APRS laptop running I will report on its sucess. Has anyone heard of when the Agrello Eng. DF unit will be out, I would like to get some technical info the product! There is alot more in the works with intergrating remote DF locations and remote control recievers. Hopefully when a little time and good weather we will be operational.
N9RLR NOID

435. Magellan Accessories

From: RonN9QGS@aol.com
Date: Mon, 22 May 1995 21:28:40 -0400
To: APRSSIG@tapr.org
Message-ID: <950522212802_127683331@aol.com>
Rendered body type: text/plain

I just about gave up trying to build my own cable for my Meridian, I cannot locate anything close to the connector used for the NMEA output, checked at Hamfest and stores... Looking at what Magellan charges is the same as some of these marine stores. So I was wondering, I would like to get everything at once, It looks like they offer the POWER/DATA CABLE w/CIG ADAPTOR for \$46. I see no problem with that, but how do I want to mount the antenna off the unit outside, what are my options, I get semi good readings in the front window, I see they sell a suction cup for the stubby antenna that comes off the unit, I would like something on the trunk, maybe that connects to NMO or a mag mount or something.. They offer a magnetic mount for external antenna for \$60 (I think its kinda high) and then I don't think it comes with coaz, cause it says 6' coaz cable is \$30, this seems expensive, I want to run Mobile APRS through a TNC with the display up front my me. They offer the mounting kit for \$87 which comes with cable, bracket, and suction cup and 6' cable, this is a good buy concidering buying everything seperate, but don't know if I am gonna use bracket, have to see it first, don't really want to go with suction cup either, want a fairly permanent installation, but no drilling holes for the GPS antenna, now the data radio, I may. I really like the idea of the magnet mount, but does this use the little antenna on the meridian (BNC type) or is it a better antenna? I just see this costing about \$100 more then I wanted. Does the power/data cable have a RS 232 on it?

Ron
Previously Chicagowx
Wanted something better.

436. [APRSSIG:1359] APRS MOBIL

From: jeff.brenton@espi.com
Date: Mon, 22 May 95 23:56:08 -0500
To: aprssig@tapr.org
Message-ID: <9505222356_0XMIK0P@espi.com>
Rendered body type: text/plain

Chicagowx@aol.com asks about GPS antennas - I have an aircraft antenna (passive, because the Garmin 55AVD I own doesn't use an active antenna) glued to the roof of my Cherokee, but have run GPS quite successfully with a dash-mounted antenna. Many GPS receivers have quite small antennas, which can be wedged up at the base of the windshield, where they're protected from the weather, close to the receiver, and relatively unobtrusive.

□ KWQ/2 1.2a □

437. DOS limitations

From: jeff.brenton@espi.com
Date: Mon, 22 May 95 23:56:12 -0500

To: aprssig@tapr.org
Message-ID: <9505222356.0XMKQ0P@espi.com>
Rendered body type: text/plain

The off-line reader I'm trying out, KWQ for 05/2, is the source of the tag lines sadowskp@usafcrqs.nellis.af.mil was refering to. I'm trying to force a different one on it here; hope it works.

I started in computers 20 years ago, when my high school leased a 8K DEC PDP-8E, with two terminals. Learned BASIC and machine language programming, including multiuser stuff, on that beast, so I *know* how to squeeze a lot of code into a tiny place... something a lot of programmers started to forget when 640K became available to play with! Imagine - two users in less memory than a monochrome video card...

Ah, the simpler days, when people were HAPPY to see their output clank out on the 10 character-per-second Teletype (tm) terminals, blazing along on a 110 baud connection from the computer, saving and restoring programs and data from PAPER TAPE (still have some of mine...)!

□ KWQ/2 1.2a □ This is not a tag line - it's far too short!

438. testing

From: jlf@achilles.mitre.org (James L. Fisher x6117)
Date: Tue, 23 May 95 08:39:09 EDT
To: aprssig@tapr.org
Message-ID: <9505231239.AA08043@achilles.mitre.org>
Rendered body type: text/plain
...testing (pls pardon the QRM)...950523083903.

439. Re: [APRSSIG:1383] RE: Bargain radios

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Tue, 23 May 1995 08:54:30 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505231354.IAA07844@neuron.cs.tamu.edu>
Rendered body type: text/plain
Sadowski,P CPT USAF CRQS/RQEN sez:
>
>
>
> Having seen the following line in a couple of postings I just had to comment
>
> " KWQ/2 1.2a "640K ought to be enough for anybody." - Bill Gates, 1981"
>
> Actually it was an IBM decision by the original PC group... and the
> architecture was really only intended to support the lower 512KB... the way
> the hardware progressed decoding wise gave 128KB more so that's part of
> ...
>
> So what has this to do with APRS.. nothing I guess.... sorry but I'm in a
> good mood as my APRS feed has started back up again.....
>
> AL
> AH6LS <--- maybe taking on some aspects of California Callsign - but still a
> Hawaii 1
> sadowskp@usafcrqs.nellis.af.mil
> Aloha

Couple o' things...

1. 05/2 _is_ implementing 32-bit ops. Now. Without Windoze 98 or the overhead of NT.
2. NT was designed as server software and not intended for individual workstations. The fact that it crashes less than Windoze 3.1x (and by inference, Windoze 99) just made it that much more attractive to the folks who already had the installed base and "trained" users, and hardware to support it.
3. Most folks do not realize that the Motorola hardware would have made a dandy PC when IBM selected the lower cost, cheaper-OS option of Intel. I've lamented to loss of a flat memory model for years and years.
4. As to what it has to do with APRS, Qbasic has some serious limitations. Bob's done great with the tool, but I'm hoping I can nudge him toward a programming language, rather than an interpreter with delusions of reality.

:~) I think, if we work on it, recast a lot of the code in C and assembly, and keep those portions really needed in a form of basic such as Visual Basic, that we can see some improvements in memory management, points supported, speed and comm interrupt handling.

THIS IS NO SLAM AT BOB. You work with the tools available and go on from there.

73 all,
Gerry

440. Re: [APRSSIG:1387] ipaddress

From: Dave Creek <dcreek@pixi.com>
Date: Tue, 23 May 1995 04:10:14 -1000 (HST)
To: "Fourquet, Huey SMSgt SNCOA" <hfourquet@b1143s1.ssc.af.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.PCW.3.91.950523040626.2887A-100000@dip017.pixi.com>
Rendered body type: text/plain

On Tue, 23 May 1995, Fourquet, Huey SMSgt SNCOA wrote:

> Can someone help me with the ip address for tapr.org
> I've tried an nslookup but got a negative reply.
>
> Thanks
> Huey
>

I had the same problem. The IP address is:

204.96.214.85

This connects to dingus.n5lyt.datarace.com

73

Dave Creek, NH6BA
Ewa Beach, HI
USAF,RET
dcreek@pixi.com

441. Re: [APRSSIG:1387] ipaddress

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 23 May 95 10:19:44 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.801238784.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The ip address of ftp.tapr.org is 204.96.214.85

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

442. Re: [APRSSIG:1387] ipaddress

From: Dick Mead <mead@skat.usc.edu>
Date: Tue, 23 May 95 9:43:49 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.801247429.mead@hamal.usc.edu>
Rendered body type: text/plain

>
>
> Can someone help me with the ip address for tapr.org
> I've tried an nslookup but got a negative reply.
>
> Thanks
> Huey
>

I get this:

ftp.tapr.org is a nickname for dingus.n5lyt.datarace.com
dingus.n5lyt.datarace.com has address 204.96.214.85

73,
Dick WB6NGC

443. Re: [APRSSIG:1393] Magellan Accessories

From: Dick Mead <mead@skat.usc.edu>
Date: Tue, 23 May 95 9:57:48 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.801248268.mead@hamal.usc.edu>
Rendered body type: text/plain

> I just about gave up trying to build my own cable for my Meridian, I cannot
> locate anything close to the connector used for the NMEA output, checked at
> Hamfest and stores... Looking at what Magellan charges is the same as some

etc....

> \$100 more then I wanted. Does the power/data cable have a RS 232 on it?
>
> Ron
>

Ron,
Before I got the kit from Magellan, I simply used two push-on terminal
sockets with small shrink around them to connect to the data out/gnd
pins. The kit cable came with bare wires, I had to add the lighter plug
and a connector for data. The data out, at least for my model, only
swings between 0-5 volts, and was unreliable on my Mac until I added a
bias resistor between TXD and RXD on the cable so the signal would go
slightly negative. I used a 3k resistor. Trouble is, their harness adds
a lot of clutter, what with the box and cables and my spliced-in stuff.
Ahhh, for GPS/TNC/TX/RX/dual mode antenna/diplexer-on-a chip... ;^)

Dick WB6NGC

444. Re: [APRSSIG:1389] Re: VERSION 6.9

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Tue, 23 May 1995 13:09:09 -0700
To: aprssig@tapr.org
Message-ID: <199505232009.NAA25943@ix2.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>Barry your confusing the heck out of the poor boy, he could care less
>about the packing the darn program by using the -rp switch that only

Well, this was in case he had zipped it off his hard drive off the PC.

>keeps all directories and subdirectories intact when zipping the darn
>thing. He does not wish to zip it but unzip it and he did use the

No kidding? I didn't know that...

>-d. Why not just tell him that when he starts up aprs69 to use the
>following command at the dos prompt, type; aprs69 /new

He said he was installing to his laptop...like it had never been there before.
If that's the case, the /new switch won't fix it.

>that will do it for you 73's and good luck.

>
>Brad
>
>

Next time _YOU_ offer help and I won't have to.

R/the 138th

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

445. Re: [APRSSIG:1392] Re: Report on ...

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Tue, 23 May 1995 13:10:42 -0700
To: aprssig@tapr.org
Message-ID: <199505232010.NAA26246@ix2.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
SNIP
>Illinois area are working with the Roanoke Doppler Board and N7LUE APRS
>interface board. When everything is operational with the GPS, Doppler, and
SNIP

Where can I get my hands on the interface board??

73 de Dan

--

dvelez@ix.netcom.com or N4WZR@N4LXI.VA.NOAM
A0000GA! A0000GA! DIVE! DIVE! DIVE!

446. Re: [APRSSIG:1393] Magellan Accessories

From: calldrin@sierra.net (Chuck Alldrin)
Date: Tue, 23 May 1995 13:17:54 -0700
To: aprssig@tapr.org
Message-ID: <199505232017.AA23458@diamond.sierra.net>
Rendered body type: text/plain

I have used my Meridian for about 4 months now with great success.
My attempt to make my own cable was OK.. but I finally did give up and buy
the factory cable with the 12V converter/regulator. The unit is very picky
about the 5 volt dc in. It would not work if the voltage varied more the about
.15 volt.

I bought the accessory KIT.

Please save your time and "gray hair" and get the "factory" cable. You will
be very happy then.
I mount my antenna on the dash and it works fine through the windshield.
Please contact me if you need any more info!

Chuck Alldrin "KN6JS" Chico, CA

calldrin@sierra.net

>I just about gave up trying to build my own cable for my Meridian, I cannot
>locate anything close to the connector used for the NMEA output, checked at
>Hamfest and stores... Looking at what Magellan charges is the same as some
>of these marine stores. So I was wondering, I would like to get everything
>at once, It looks like they offer the POWER/DATA CABLE w/CIG ADAPTOR for \$46.
> I see no problem with that, but how do I want to mount the antenna off the
>unit outside, what are my options, I get semi good readings in the front
>window, I see they sell a suction cup for the stubby antenna that comes off
>the unit, I would like something on the trunk, maybe that connects to NMO or
>a mag mount or something.. They offer a magnetic mount for external antenna
>for \$60 (I think its kinda high) and then I don't think it comes with coaz,
>cause it says 6' coaz cable is \$30, this seems expensive, I want to run
>Mobile APRS through a TNC with the display up front my me. They offer the
>mounting kit for \$87 which comes with cable, bracket, and suction cup and 6'
>cable, this is a good buy concidering buying everything seperate, but don't
>know if I am gonna use bracket, have to see it first, don't really want to go
>with suction cup either, want a fairly permanent installation, but no
>drilling holes for the GPS antenna, now the data radio, I may. I really like
>the idea of the magnet mount, but does this use the little antenna on the
>meridian (BNC type) or is it a better antenna? I just see this costing about
>\$100 more then I wanted. Does the power/data cable have a RS 232 on it?
>
>Ron
>Previously Chicagowx
>Wanted something better.
>
>
>

447. Re: [APRSSIG:1382] TRIMBLE GPS Unit

From: rberger@metronet.com (Randall Berger)
Date: Tue, 23 May 1995 16:18:53 -0500
To: aprssig@tapr.org
Message-ID: <199505232111.AA27491@metronet.com>
Rendered body type: text/plain

You need to register your APRS software to have the GPS features to work properly. I have the Trimble Flight Mate Pro, KPC3 & a KAM and Toshiba notebook. They all work well with the APRS software once you have inputed the correct registration key.

73's

RB

>
>This past weekend I finally got around to trying to hook up my TRIMBLE
>Aviation Handheld GPS unit to APRS.... Well no workee (Trimble to HSP to
>KAM3 to Notebook - Toshiba).... so I hooked the Trimble to the Notebook and
>saw two kinds of messages... seeing all the postings here I reprogrammed the
>Trimble to just spit out RMC messages... I verified the GPS unit was
>spitting out just RMS msgs... then hooked things back up again.. still no
>workee.... since I don't see any "troubleshooting" documentation (no
>complaints on my part by the way.. I still think Bob B has done a great
>service in developing this software) what advice can I solicit from you
>folks about getting further along in finding out why I can't get my software
>to plot?? Also, I'm kinda confused (nothing new...) but I'm still in the
>"gee I'm curious mode"... do I still have to send in a pmnt just to see just
>my position plotted on the screen map? The software I'm running is
>that which came with the KAM-3 a month ago.. so it's not the latest.. but
>still it must have worked... I thought I read somewhere where I could just
>hook the GPS to APRS - not using a TNC.... but can't seem to find any
>instructions for this dummy to do just that.... HELP....
>THanks in Advance
>AL
>AH6LS
>sadowskp@usafcrqsnellis.af.mil
>
>

Regards,

Randy Berger

=====
Randy Berger (WA0D) E-Mail: rberger@metronet.com
Grapevine, TX
rberger@corp.adapttec.com

448. DeLORME MAPPING

From: debell@heartland.bradley.edu (Darrell Bell)
Date: Tue, 23 May 95 17:38:30 CDT
To: aprssig@tapr.org
Message-ID: <9505232238.AA06574@heartland.bradley.edu>
Rendered body type: text/plain

I would be interested in knowing anyone that had mixed "Street
Atlas USA" form DeLORME MAPPING with APRS.

Were you happy?
Advantages/disadvantages?
any advice?

Thanks..... Darrell in Peoria..... N6WSP

449. Re: [APRSSIG:1406] DeLORME MAPPING

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 23 May 95 19:04:50 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.801270290.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

>I would be interested in knowing anyone that had mixed "Street
>Atlas USA" form DeLORME MAPPING with APRS.

Delorme has a LOT of money and time invested in their data bases, they are
not about to release that stuff to anyone.. It is also highly unlikely that
anyone could easily figure out their data format.. Due to all of this, I

seriously doubt if we could take advantage of their data..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

450. Retki GPS system

From: Dick Mead <mead@skat.usc.edu>
Date: Tue, 23 May 95 16:15:17 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.801270917.mead@hamal.usc.edu>
Rendered body type: text/plain

Anyone familiar with the Retki Land nav system, uses a Rockwell PCMCIA GPS card. Is that card compatible with APRS? The demo is interesting. They also have a Web page at <http://www.liikkuva.com/>

Dick

451. Re: [APRSSIG:1402] Re: VERSION 6.9

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>
Date: Tue, 23 May 1995 17:23:32 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.950523172215.28045A-100000@napalm.ecst.csuchico.edu>
Rendered body type: text/plain

Sounds darn good to me than maybe he won't get so confused with all redundant questions that pertain to nothing...

Brad

452. APRS & PK-12

From: SDRoe@aol.com
Date: Tue, 23 May 1995 20:34:59 -0400
To: aprssig@tapr.org
Message-ID: <950523203457_10070060@aol.com>
Rendered body type: text/plain

I am new to APRS and could use some help getting it running correctly. I run a command & control Comm van for the Pierce County Sheriff's department. We are used primarily in Search & Rescue and I was hoping to use APRS to track teams in the field, 4X4 and other command vehicles.

I have two other ham's helping me test APRS and one BBS. The BBS has added his lat-long to his mail beacon and I have even been able to receive it once. (Don't know how and haven't painted it since) Myself and one of the ham's are using a AEA PK-12 for the TNC and we are not having much luck. The other ham is using AEA PK-232 and he seems to have no problem picking up my position or the BBS's.

I am pretty sure this has something to do with the PK-12 setup but I haven't been able to figure it out yet. If anyone has any ideas please let me know.

Thanks alot,
Sam Roe (KB7QQQ@WA7NTF.#WWA.WA.USA.NOAM)
SDRoe@aol.com

PS. I have tried APRS Versions 6.6, 6.7, 6.8c & 6.9

453. Re: [APRSSIG:1408] Retki GPS system

From: rwf@mindspring.com (rwf)
Date: Tue, 23 May 1995 23:28:21 -0500
To: aprssig@tapr.org
Message-ID: <199505240323.XAA05109@dylan.mindspring.com>
Rendered body type: text/plain

Not familiar other than having heard of it. But I have read that rockwell is disconuing that pcmcia gps card the end of this month (if it is the one known as the Marco Polo)

>

>Anyone familiar with the Retki Land nav system, uses a Rockwell PCMCIA
>GPS card. Is that card compatible with APRS? The demo is interesting.
>They also have a Web page at <http://www.liikkuva.com/>

>
>Dick
>
>

454. Re: [APRSSIG:1399] Re: ipaddress

From: RonN9QGS@aol.com
Date: Tue, 23 May 1995 23:48:51 -0400
To: aprssig@tapr.org
Message-ID: <950523234850_9929311@aol.com>
Rendered body type: text/plain

Hi Keith,
I was wondering how the pictures came out from the flight? Who can I contact about getting a set, I am willing to pay for reprints. I would like to start an album since I am starting to enjoy chasing the balloons. Thanks.

Ron N9QGS

455. Re: [APRSSIG:1404] Re: Magell...

From: RonN9QGS@aol.com
Date: Tue, 23 May 1995 23:49:45 -0400
To: aprssig@tapr.org
Message-ID: <950523234943_9931345@aol.com>
Rendered body type: text/plain

Chuck & Dick,
Thank you for your input on the Magellan accesories, I am waiting for the Data cable, and will pop on either a cigarette lighter or some more reliable connector, and the RS-232 for the TNC connections. I may either rty for the antenna, using the windshield, with a extension coax or a magmount with right angle BNC and tape that real good, but I prefer the Windshield as its more out of the weather, will see what is more reliable. Thanks again.

456. KPC-3 v.6 Mobile Setup

From: RonN9QGS@aol.com
Date: Wed, 24 May 1995 00:00:41 -0400
To: APRSSIG@tapr.org
Message-ID: <950524000039_9936060@aol.com>
Rendered body type: text/plain

Hi,
I woule like to make my installation for Mobile APRS Tracking simple as can be, I already know I am gonna use the KPC 3 with my Magellan and a HT, but what commands do I want to get familiar with and have set to certain parameters. I know if I set everything the way my TNC is set now (v5 firmware) its not gonna work, there are probably additional commands, that tells it it is a GPS, and how often to Beacon, what is a normal time for Mobil operation, 5 minutes? Does it report speed and course? Cause whenever I see a mobile station it says something like NUL GPS or something strange in the course/speed field of APRS.... Maybe someone could tell me what commands to enter in the TNC so when I plug the rs232 off the Magellen it should work.
Ron

457. GPS registration

From: RonN9QGS@aol.com
Date: Wed, 24 May 1995 00:12:29 -0400
To: APRSSIG@tapr.org
Message-ID: <950524000453_9938340@aol.com>
Rendered body type: text/plain

I was wondering, Is it true the GPS registration on APRS is only if you feed the GPS into the computer? I am gonna run Mobile, directly in the TNC, so my other APRS station at home will be able to do everything with it?
Ron

458. HELP

From: wnolle@fly.HiWAAY.net
Date: Wed, 24 May 95 02:52:27 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950524025349.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

For some reason i keep loosing my subscription to the APRSSIG.
Then of course i forget how to re-subscribe. Please help!.....

459. Re: [APRSSIG:1401] Re: Magellan Accessories

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 24 May 1995 06:50:38 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505241150.GAA04819@solar.cs.tamu.edu>
Rendered body type: text/plain

If they're using TTL levels, why not build up a small interface circuit with a Max232C or a Max233C from Maxim semiconductors? 232 requires 5 caps and a 5 volt regulator while the 233 requires only stable 5 vDC power, all the "glue" is on the chip.

73, gerry

460. Re: [APRSSIG:1416] HELP

From: rwf@mindspring.com (rwf)
Date: Wed, 24 May 1995 08:36:13 -0500
To: aprssig@tapr.org
Message-ID: <199505241233.IAA17098@dylan.mindspring.com>
Rendered body type: text/plain

>For some reason i keep loosing my subscription to the APRSSIG.
>Then of course i forget how to re-subscribe. Please help!.....
>

Maybe you missed the recent message that told that the machine that runs the list will remove you if too many messages bounce. This sometimes happens when a receiving mail server is down or messed up. Maybe this is what happens to you.

Ralph Fowler
Atlanta GA

461. APRS Maps for Boston Aids Walk

From: kinahan@ws007-fddi.bytex.network.com (Tom Kinahan @ws007)
Date: Wed, 24 May 95 10:00:57 EDT
To: aprssig@tapr.org
Message-ID: <9505241400.AA02914@ws007-fddi>
Rendered body type: text/plain

I have modified W1KRU's Boston Marathon Maps to add the track of the 1995 Aids Walk scheduled for June 4th.

For those of you in the greater Boston Area, I suggest you take a copy from ftp.tapr.org in /tapr/SIG/aprssi/upload as the file aidswalk.zip.

We can sure use a few more APRS beacons for the June 4 event. If you can help please contact me.

Thanks!

Tom Kinahan N1CPE
(kinahan@bytex.network.com)

p.s. I also enhanced the framingham map around my qth...

462. RE: [APRSSIG:1414] KPC-3 v.6 Mobile Setup

From: Bob_Fairbairn-C12509@email.mot.com
Date: 24 May 95 09:58:40 -0600
To: aprssig@tapr.org
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>
Rendered body type: text/plain

>Hi,
>I woule like to make my installation for Mobile APRS Tracking simple as can
>be, I already know I am gonna use the KPC 3 with my Magellan and a HT, but
>what commands do I want to get familar with and have set to certain
>parameters.
>Ron

Ron,
Get the v6.0 ROM for your KPC-3 and it will be easy. The new ROM has a bunch of new commands and modifies some others. I use my Garmin75 or my Motorola Oncore.

The new commands are GPSHEAD which selects the headers of the messages to look for. Then there is LTRACK and BLT which control the beacons. You will setup your UNPROTO path to something like WIDE,WIDE (Local convention??) I have my system sending out every 2 minutes. The Garmin and the Motorola update the KPC-3 every two seconds so the data is fresh. I use the RMC message or the GLL, and VTG messages.

The biggest problem is the cables all over the car and the extra antennas.

KF90A

463. HSP mode

From: Emmet2@aol.com
Date: Wed, 24 May 1995 12:46:12 -0400
To: aprssig@tapr.org
Message-ID: <950524124611_10884708@aol.com>
Rendered body type: text/plain

Does the HSP cable described in the IBM docs work with a Mac? Obviously I would need to change the DB-9 in the second half of the description to a Din-8.

Are the slashes from the emitter of the second transistor supposed to represent ground? If this is so, why didn't you just draw a line from there to the ground line running from TNC to computer? The drawing is just a little confusing ... I am also used to seeing the transistors with the arrows, a little hard to do in a text drawing (hi), and it has been so long I can't even recall whether the arrow is the emitter or the collector, but I think it's supposed to be the emitter ... (don't laugh at this ex-electrician and future EE <grin>, it has just been too long since I fiddled with this stuff hands on).

And oh yeah, if I understand this correctly, this will not cause any loss of information since the change in DTR causes the TNC to hold the data until the DTR goes back high again. Yes, no, or maybe?

Chip Griffin - President of Thames River Apple Users Group
SysOp of The Quarry BBS (203-889-6427)

-----+-----
Emmet2 (AOL & eWorld) | emmet2@aol.com or emmet2@eworld.com
N1MIE@N10KK.CT.USA | 1:320/301 (fidonet)

464. Re: [APRSSIG:1421] HSP mode

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 24 May 95 13:04:34 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.801335074.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

>Does the HSP cable described in the IBM docs work with a Mac? Obviously I
>would need to change the DB-9 in the second half of the description to a
>Din-8.

Currently, MacAPRS does not support the HSP cable.. We are looking into this, but until recently, it has not been an issue..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

465. ["Battles, Brian, WS10" <bbattles@arrl.org>: FYI: ARRL Digital Communication Conf (from TAPR)]

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 24 May 95 13:08:40 EDT
To: sproul@eos.ap.org, msproul@arn.net, 74727.3227@compuserve.com,
aprssig@tapr.org
Message-ID: <CMM-RU.1.4.801335320.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

FYI..

Press Release: June 1,
1995

1995 ARRL Digital Communication Conference
Sep 8-10, 1995
Arlington, Texas (minutes from DFW airport)

Permission is granted to reprint any or all parts of this press release.

Full text is available on the Internet:
FTP: ftp.tapr.org WWW: http://www.tapr.org/tapr E-Mail: tapr@tapr.org

It's time to make your travel plans and put the finishing touches on your work for the upcoming 14th Annual ARRL Digital Communication Conference.

The ARRL Digital Communication Conference is an international forum for radio amateurs in digital communication, networking and related technologies to meet, publish their work, and present new ideas and techniques for discussion. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. The Digital Communication Conference is not just for the digital elite, but for digitally-orientated amateurs of all levels of experience.

The 1995 Digital Communication Conference will be held on Sep 8-10, 1995, in Arlington, Texas; minutes from Dallas/Ft Worth International Airport, in the middle of the country, and airfares have never been cheaper for this conveniently located conference.

Not only is the Digital Communication Conference technically stimulating, it's a weekend of fun for all who have more than a casual interest in any of the ham digital communication modes. This includes PBBS operators, networkers, DX PacketCluster SysOps, software writers, modem designers and digital satellite communication enthusiasts. The Digital Communication Conference is for all levels of digital operators--a "must" conference to attend to get active on a national level. Now more than ever, Amateur Radio needs this great meeting of the minds because it's important that we demonstrate a continued need for the rich frequency allocations we now have by pushing forward and documenting our achievements. The ARRL Digital Communication Conference is one of the ways to record our accomplishments and challenge each other to do more.

What can you expect during the 14th annual Digital Communication Conference?

- * A full day of papers and breakouts on Saturday for the beginner to the advanced amateur digital enthusiast.
- * Two workshops, one on APRS on Friday and one on making use of the new PCS (Personal Communication Service) technology on Sunday.
- * A Texas-sized banquet with a special guest speaker.
- * Special Interest Groups (SIGs) on Saturday following the banquet.
- * Informal get-togethers throughout the weekend.
- * A facility perfect for this type of meeting.
- * Vendor area and informal engineering discussions.
- * Scores of nearby restaurants and entertainment (Six Flags Over Texas, The Ballpark at Arlington, Wet 'n Wild, golf).
- * An event at which the most important new developments in amateur digital communication are announced.
- * Digital "movers and shakers" from all over the world in attendance.
- * Plenty of Texas hospitality!

In addition to the presentation of papers on Saturday, two workshops will be held during the conference. On Friday, Keith Sproul, WU2Z, will hold a workshop on APRS packet-location software. Keith is chair of the TAPR APRS Special Interest Group, developer of the Macintosh version of APRS, and a leader in the area of APRS technology. This is a unique opportunity to gain insight into this fast-growing new digital aspect of amateur operations that combines computers, packet radio and Global Positioning Satellites (GPS). On Sunday, Dewayne Hendricks, WD8DZP, will conduct a workshop focusing on a survey of Personal Communication Systems and their applications and use in the Amateur Radio service. Dewayne is an expert in the area of commercial wireless systems; his company WarpSpeed Imagineering, focuses on wireless Internet. This workshop presents an opportunity to learn how Personal Communication Technology (handheld and small business wireless systems) can be used in the amateur service.

The 1995 Digital Communication Conference is cohosted by Tucson Amateur Packet Radio (TAPR) and the Texas Packet Radio Society (TPRS). TAPR has been active as an international amateur research and development organization since 1981 and was responsible for development of the TNC-2 and other amateur kits and publications. TAPR has more than 2500 members worldwide. TAPR continues to provide leadership in digital amateur radio activities by supporting Special Interest Groups, conferences/meetings, publications, and research and development projects. TPRS has been active as an organization since 1984 and has been responsible for the development of the TexNet network in Texas, Oklahoma, Arkansas and Missouri. TPRS

membership now tops 500 members.

Anyone interested in digital communication is invited to submit a paper for publication in the Conference Proceedings. Presentation at the Conference is not required for publication. If you know of someone who is doing great things with digital communication, tell them about this! Papers are due by July 21, 1995, and should be submitted to Maty Weinberg, ARRL HQ, 225 Main St, Newington, CT 06111, or via the Internet to mweinberg@arrl.org. Please contact Maty for detailed format requirements.

If you've attended a Digital Communication Conference in the past, remember how much fun it was discussing the latest developments into the wee hours! If you've never been, make plans now to attend and find out how much fun the Digital Communication Conference can be.

There are few activities where the importance of your participation can be so much fun and important! What a great way to share and renew your enthusiasm for digital Amateur Radio! Getting together with colleagues from all over the world and bringing each other up to date on your latest work. All this and more, for an unforgettable weekend of ham radio and digital communication. Make your travel and lodging arrangements now. We hope to see you at the ARRL Digital Communication Conference on Sep 8-10!

Full information on the conference and hotel information can be obtained by contacting Tucson Amateur Packet Radio, 8987-309 E Tanque Verde Rd, Tucson, AZ 85749-9399; 817-383-0000, fax 817-566-2544; Internet: TAPR@TAPR.ORG

Sincerely,

Greg Jones, WD5IVD, President, Tucson Amateur Packet Radio
Dave Wolf, W05H, President, Texas Packet Radio Society

If you need handouts or flyers for meetings, contact TAPR about getting what you need!

Hotel Information

Conference presentations, meetings and workshops will be held at the La Quinta Inn and Conference Center, 825 N Watson Rd, Arlington, TX; 800-531-5900, 817-640-4142, fax 817-649-7864, intersection of I-30 and TX 360. Rooms rates are \$53/single, \$58/double, \$63/triple and \$85+ for suites. When making reservations with the hotel, indicate that you're attending the conference. Six Flags (larger than Disneyland), the Texas Rangers and other attractions are within a few miles of the hotel. If you plan to stay at the hotel, it's highly recommended that you book your room prior to August 25, 1995--a block of 100 rooms is reserved for Friday and Saturday. The hotel provides transportation to and from D/FW International Airport. Contact the hotel to arrange airport transportation.

Registration

Contact the TAPR office by Phone, Fax, or e-mail (Internet: tapr@tapr.org) to preregister or for additional meeting information. MasterCard and VISA accepted.

Digital Communications Conference

=====

- Preregistration (before August 21) \$30 *
- Late Registration or at door \$35 *
- * - Conference Registration includes:
Conference Proceedings, Sessions, Meetings, and Lunch.
- Saturday Evening Dinner \$17 **
- ** - Dinner, Speaker, Prize Drawing (Limited Space)

Workshops

=====

APRS Workshop, Friday, 4-7 PM, conducted by Keith Sproul, WU2Z

- Preregistration (before August 21) \$10
- Late Registration or at door \$15

PCS Workshop, Sunday, 9 AM-1 PM, Dewayne Hendricks, WA8DZP
Survey of Personal Communication Systems (PCS) Technologies and their application and use in the Amateur Radio service

- Preregistration (before August 21) \$10
- Late Registration or at door \$15

Contact TAPR to register for the DCC.
Tucson Amateur Packet Radio, 8987-309 E Tanque Verde Rd, Tucson, AZ
85749-9399; 817-383-0000, fax 8170-566-2544.
Internet: TAPR@TAPR.ORG

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

466. GPS set-up

From: "John W. (Bill) Hays, W00MV" <billh@netins.net>
Date: Wed, 24 May 1995 12:16:22 CST
To: aprssig@tapr.org
Message-ID: <00990D58.A56BBD55.63@netins.net>
Rendered body type: text/plain

I have a friend who has a Motorola XT Oncore Model PVT602N323.
The format it is doing now is RMC. He would like to add GGA.

He has tried, using a dumb terminal program, to change the type to GGA
by typing the string that starts with 0\$0 I think it was 0\$GP GGA,<CR><LF>0

At any rate he was following the example in the manual he rcvd with the
unit. It had no effect and the unit continued with the original 0RMCD
output.

Any ideas?
73 Bill W00MV

467. Re: [APRSSIG:1400] GPS & PDF Maps

From: mmunster@qualcomm.com (Marvin Munster x5388)
Date: Wed, 24 May 1995 10:28:30 -0700
To: aprssig@tapr.org
Message-ID: <v02110101abe91ce7f37a@[129.46.12.181]>
Rendered body type: text/plain

Here is something that might be of interest that came to me this morning.
Marvin - WB6PKK

Subject: GPS & PDF Maps

OTC 22-May-95 08:51 Trimble and Adobe Align to Reach Next Generation
...

MOUNTAIN VIEW, CALIF. (May 22) BUSINESS WIRE -May 22, 1995--Trimble
(Nasdaq:TRMB) and Adobe Systems Incorporated (Nasdaq:ADBE) announced
today that they have signed a marketing and technology agreement
signaling their intention to integrate technologies. The agreement
will offer the possibility of a new generation of navigational device
which would display high quality maps linked to a variety of other
information containing rich text and graphics. These devices would
take advantage of Acrobat Player technology, an embedded version of
Adobe Acrobat software, and

Trimble's GPS satellite-based navigation, positioning and
communication data products. Acrobat Player technology supports the
basic functionality of Acrobat software in a highly portable and
independent implementation for computer-based appliances, such as
navigation systems. Like Acrobat software, Acrobat Player supports
Adobe's Portable Document Format (PDF), a universal file format that
preserves the fidelity of graphically rich information across computer
platforms.

Navigation systems using Acrobat Player will be able to display
high quality maps in a compact format that can be easily linked to
related information such as hotel and restaurant guides, service
station listings and airport directories.

"Acrobat Player redefines how consumers can use navigation systems,
allowing these devices to provide access to a broader range of
information in a very easy to use fashion," said Dave Vaughn,
Trimble's Executive Vice President of Tracking and Communication
Products. "The navigation systems market is rapidly expanding into
consumer areas such as automobiles. By developing leading edge
products and forming strategic relationships with companies like
Adobe, Trimble can better meet the demands of these new market
opportunities and set new standards for the industry as a whole."

PDF files are substantially smaller than many other image file

formats, including the bitmap and short vector formats typically used in navigation systems. As a result, navigation systems based on Acrobat Player technology will be able to provide greater amounts of information in a single system. Because Acrobat software supports information created by virtually any authoring tool, OEMs building navigation systems based on Acrobat Player will be able to integrate a variety of content in a single environment, including existing maps and any other relevant graphic or textual data. This content can also be used on desktop systems since files in Adobe's PDF format can be used by anyone with Acrobat software.

"This is an exciting relationship because it combines Trimble's leadership in global positioning solutions for air, land and sea applications with Adobe's complete tool set for creating and delivering rich digital information," said Deborah Triant, Vice President, Marketing, Adobe Systems. "Together, the two companies can enable new products that will provide real benefits to consumer, government and commercial markets."

Trimble is a world leader in the emerging commercial markets for GPS satellite-based navigation, positioning and communication data products. These products are sold worldwide for diverse applications including land and hydrographic survey; GIS data acquisition; military; general, corporate and commercial aviation; marine navigation; vehicle tracking and communications; and mobile GPS. The company also manufactures and sells GPS engines for the OEM market. Founded in 1978 and located in Sunnyvale, Calif., Trimble has been a leader in providing GPS solutions since 1984.

Adobe Systems Incorporated, founded in 1982, is headquartered in Mountain View, California. Adobe develops, markets and supports computer software products and technologies that enable users to create, display, print and communicate electronic documents. The company licenses its technology to major computer, printing and publishing suppliers, and markets a line of applications software and type products for authoring visually rich documents. Additionally, the company markets a line of powerful, but easy to use, products for home and small business users. Adobe has subsidiaries in Europe and the Pacific Rim serving a worldwide network of dealers and distributors. Adobe's 1994 revenue was approximately \$598 million. -0- Note to Editors: Adobe, Acrobat and Acrobat Player are trademarks of Adobe Systems Incorporated or its subsidiaries, which may be registered in certain jurisdictions. All other brand and product names are trademarks or registered trademarks of their respective holders.

--30--pc/sf

CONTACT: Adobe Systems Inc.

Rick Brown, 415/962-6060

<http://www.adobe.com/>

Trimble

Lea Ann McNabb, 408/481-7808

KEYWORD: CALIFORNIA

INDUSTRY KEYWORD: COMPUTERS/ELECTRONICS COMED PRODUCT REPEATS:

New York 212-575-8822 or 800-221-2462; Boston 617-330-5311 or 800-225-2030; SF 415-986-4422 or 800-227-0845; LA 310-820-9473

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| Marvin J. Munster - WB6PKK |
| WB6PKK @ KJ6VC.#SOCA.CA.US.NOAM |
| mmunster@qualcomm.com |
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468. Re: [APRSSIG:1424] GPS set-up

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 24 May 1995 14:12:25 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505241912.0AA08920@solar.cs.tamu.edu>
Rendered body type: text/plain

4800,n,8,1

The command is

\$PMOTG,GGA,n,^M^J

where n is the desired frequency of repetition in seconds and the control-M and control-J are absolutely required. A dumb terminal will do this... Oh, yes: The caps are required. It's not tolerant of upper/lower case switching.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

469. message acks

From: jeff.brenton@espi.com
Date: Wed, 24 May 95 14:20:41 -0500
To: APRSSIG@TAPR.ORG
Message-ID: <9505241420.0K5G502@espi.com>
Rendered body type: text/plain

Keith, a suggestion that I put on my registration that I mailed to Bob:

Allow one call sign to *ack* any messages sent to ANY of the SSIDs of that call sign. Example: KA9VNV could be set to *ack* any messages sent to KA9VNV-3, or KA9VNV-?? if there were more than one remote station.

This comes up because I've had three different people send traffic to my automated weather station, KA9VNV-3, which does not run any APRS software. It simply reads the weather station at the county courthouse, and reports what it finds. No human present, and I haven't made the scripts fancy enough to send *ack*s out. If my base could *ack* them, they wouldn't spend the next few days bouncing around the net, as they're periodically resent.

In a way, it's strange - I don't see people sending messages to other automated weather stations in the area, just mine... which isn't set up to deal with them. I got one last night from somebody who wants my weather station to phone him up at work... about an hour after I posted a beacon saying -3 can't reply...~

470. Re: [APRSSIG:1422] Re: HSP mode

From: rwf@mindspring.com (rwf)
Date: Wed, 24 May 1995 16:50:31 -0500
To: aprssig@tapr.org
Message-ID: <199505242045.QAA22599@dylan.mindspring.com>
Rendered body type: text/plain

>Currently, MacAPRS does not support the HSP cable.. We are looking into this,
>but until recently, it has not been an issue..

>

>Keith Sproul

>

>Keith Sproul

>Student Housing Network Coordinator

>Rutgers University Computing Services

><http://www-ns.rutgers.edu/~ksproul/>

>

Ham Radio: WU2Z

ksproul@noc.rutgers.edu

908 445-3695 Work

908 821-4828 Home

Hmm- all of a sudden, everyone got GPSs. Thank goodness for planned obsolescence on the part of manufacturers like Motorola, who make it possible for us to get good deals on space-age technology!

Ralph Fowler, N4NEQ

rwf@mindspring.com

<http://www.mindspring.com/~rwf> For ATV and Ham stuff!

471. Re: [APRSSIG:1424] GPS set-up

From: DKAPLAN@netins.net (David Kaplan)
Date: Wed, 24 May 1995 15:54:26 -0500
To: aprssig@tapr.org
Message-ID: <199505242054.PAA31938@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

>I have a friend who has a Motorola XT Oncore Model PVT602N323.

>The format it is doing now is RMC. He would like to add GGA.

>

>

>He has tried, using a dumb terminal program, to change the type to GGA

>by typing the string that starts with 0\$0 I think it was 0\$GPGGA,<CR><LF>0
>
>At any rate he was following the example in the manual he rcvd with the
>unit. It had no effect and the unit continued with the original 0RMC0
>output.
>
>Any ideas?
>73 Bill W00MV
>
Use the Motorola.Bas program provided with APRS. It runs under QBASIC and
works just fine. Make sure the cable is built properly from the GPS to the TNC.

Dave

472. Re: [APRSSIG:1424] GPS set-up

From: rwf@mindspring.com (rwf)
Date: Wed, 24 May 1995 17:02:28 -0500
To: aprssig@tapr.org
Message-ID: <199505242057.QAA24938@dylan.mindspring.com>
Rendered body type: text/plain

>I have a friend who has a Motorola XT Oncore Model PVT602N323.
>The format it is doing now is RMC. He would like to add GGA.
>

Maybe I am missing something, but does your friend have a PC compatible
computer connected up (or can he connect one)? If so, I take the easy way
out and use the QBASIC written Motorola.bas program that came with APRS.
It lets you set up the sentences and the rate. Don't be surprised if you
get an error when you try to use his VIEW command. Half the time it doesn't
work!

Ralph Fowler

473. APRS Web Page

From: Bob Wilkins <rwilkins@ccnet.com>
Date: Wed, 24 May 1995 15:52:49 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9505241513.A6011-0100000@ccnet3>
Rendered body type: text/plain

I have established a small web page for APRS users. Pointers to the FTP
sites and local Northern California APRS Information. Enjoy the Fun!

<http://www.ccnet.com/~rwilkins/aprs.html>

n6fri	aprs	145.010 northern california
Bob Wilkins	work	bwilkins@cave.org
Berkeley, California	home	rwilkins@ccnet.com
94701-0710	play	n6fri@n6eeg.#nocal.ca.usa.noam

474. Maps for the North Central

From: DKAPLAN@netins.net (David Kaplan)
Date: Wed, 24 May 1995 18:19:09 -0500
To: aprssig@tapr.org
Message-ID: <199505250009.TAA01125@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

Has anyone done any maps for Iowa, South Dakota or Nebraska?

Dave

475. Re: [APRSSIG:1431] APRS Web Page

From: Larry Griffin AB5GE <largriff@onramp.net>
Date: Wed, 24 May 1995 18:39:07 -0500
To: aprssig@tapr.org
Message-ID: <199505242339.SAA22912@ns.onramp.net>
Rendered body type: text/plain

<---- Begin Included Message <---->

Date: Wed, 24 May 1995 18:09:58 -0500

From: Bob Wilkins <rwilkins@ccnet.com>

Subject: [APRSSIG:1431] APRS Web Page

I have established a small web page for APRS users. Pointers to the FTP
sites and local Northern California APRS Information. Enjoy the Fun!

<http://www.ccnet.com/~rwilkins/aprs.html>

<---- End Included Message <---->

Kudos to Bob! That is a handy site! Will save lots of long distance phone bills for me!

```
-----
| Internet: largriff@onramp.net
Larry Griffin | Internet: ab5ge@amsat.org
| AX25: ab5ge@w5ero.#wtx.tx.usa.noam
-----
```

476. Re: [APRSSIG:1424] GPS set-up

From: Larry Griffin AB5GE <largriff@onramp.net>
Date: Wed, 24 May 1995 18:30:35 -0500
To: aprssig@tapr.org
Message-ID: <199505242330.SAA22035@ns.onramp.net>
Rendered body type: text/plain

<----- Begin Included Message ----->
Date: Wed, 24 May 1995 12:26:57 -0500
From: "John W. (Bill) Hays, W00MV" <billh@netins.net>
Subject: [APRSSIG:1424] GPS set-up
I have a friend who has a Motorola XT Oncore Model PVT602N323.
The format it is doing now is RMC. He would like to add GGA.
<----- End Included Message ----->

<----- Begin Included Message ----->
Reply From: Gerald J Creager <gerry@cs.tamu.edu>
4800,n,8,1
The command is
\$PMOTG,GGA,n,^M^J
where n is the desired frequency of repetition in seconds and the control-M
and control-J are absolutely required. A dumb terminal will do this... Oh,
yes: The caps are required. It's not tolerant of upper/lower case switching.
<----- End Included Message ----->

Wow! All along I've been including a checksum after my NMEA messages!
After re-examination of the manual I see that the checksum is OPTIONAL.
Guess it pays to read the fine print!
Thanks Gerry! That made my day. (That, plus the fact that my Internet
Provider finally installed V.34 modems today. :o)

```
-----
| Internet: largriff@onramp.net
Larry Griffin | Internet: ab5ge@amsat.org
| AX25: ab5ge@w5ero.#wtx.tx.usa.noam
-----
```

477. Re: [APRSSIG:1431] APRS Web Page

From: rberger@metronet.com (Randall Berger)
Date: Wed, 24 May 1995 19:52:46 -0500
To: aprssig@tapr.org
Message-ID: <199505250045.AA28117@metronet.com>
Rendered body type: text/plain

Bob,

Thanks for the work you put into the new WEB page for APRS. You have done
a great job and service for all of us.

73's

Randy

>I have established a small web page for APRS users. Pointers to the FTP
>sites and local Northern California APRS Information. Enjoy the Fun!
>
> <http://www.ccnet.com/~rwilkins/aprs.html>
>
> n6fri aprs 145.010 northern california
> Bob Wilkins work bwilkins@cave.org
> Berkeley, California home rwilkins@ccnet.com
> 94701-0710 play n6fri@n6eeg.#nocal.ca.usa.noam
>
>
>
>

Regards,

Randy Berger

=====

Randy Berger (WA0D)	E-Mail:	rberger@metronet.com
Grapevine, TX		
rberger@corp.adapttec.com		

478. Re: [APRSSIG:1425] Re: GPS & PDF Maps

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Wed, 24 May 1995 19:59:47 -0500
To: aprssig@tapr.org
Message-ID: <9505250059.AA20985@omnifest.uwm.edu>
Rendered body type: text/plain

Sure like your graphic tag-line

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.#EN63FF.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham

=====

479. APRS Web Site

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 24 May 95 21:25:20 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.801365120.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

I too have a Web site for APRS info, mine is still under construction, so I had not announced it yet, but since someone else has, I will too..

Obviously, mine is going to be more aimed at MacAPRS, but it will have lots of stuff about both versions.
Anyone that has connected to my PERSONAL home page would have seen a pointer to it already, since it has been there for a couple months now.

<http://www-ns.rutgers.edu/~ksproul/MacAPRS.html>

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

480. RE: [APRSSIG:1404] Re: Magellan Accessories

From: Tim Smith <TSMITH@fibusa.com>
Date: Wed, 24 May 95 23:10:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <2FC41A33@ipnovell.fibusa.com>
Rendered body type: text/plain

>>I have used my Meridian for about 4 months now with great success.
>> I finally did give up and buy the factory cable
>>I bought the accessory KIT.

I have a Magellan too but the more I hear about the Garmins the more I'm convinced that the Magellans are overpriced and much less flexible than the Meridians, XL's and Trailblazers. I'm in Tampa on business for a couple of days and happened to notice an E&B Discount Marine next to the Courtyard I was staying at...I had the opportunity to check out several different units. The Garmin 40 and 45's are much smaller than the Magellan units, accessories are much less expensive and versatile. (The DC power and NMEA cable is only \$27 over-the-counter). One thing I have always complained about the Magellans is acquisition time...my Trailblazer sometimes takes 2-5 minutes to acquire...even in open sky. The clerk was very nice and let me do some side-by-side testing in the parking lot. The Garmins in all cases acquired in less than 10 seconds as compared to the 30-90 second acquisition on the Magellans. In a cold start, initialized situation the Garmin only took 3 minutes to the Magellans 8 minutes.

Based on this little shopping excursion my Magellan is going up for sale

when I get back to Massachusetts Thursday....I think Garmin is the better choice. Here's what I found in general:

Garmin:

GPS40 \$249 (Internal antenna only)
GPS45 \$299 (Detachable antenna, external connection, 10 hour batt. life), 250 waypoint
GPS75 \$499 A cadillac
Floating storage case \$17
GA-28 Remote antenna \$150
Fixed mount bracket \$30
Power/Data Cable \$28

Magellan:

Meridian \$299 Detachable antenna, (5 hour batt life), 100 waypoint
Meridian XL \$349 (same as above but with course plot)
Nav5000DLX \$699 (new for 1995)
Bracket/cable combo \$80
data/power cable alone \$47
external antenna \$180

Apelco:

GPS15 \$599 Only tracks 5 birds, E&B dude called it junk (same for the Hummingbirds)

The guys at E&B here in Tampa say they sell the Garmins over all the others combined by 10 to 1. The differential receivers that work with the Garmins, Magellans, Eagles, and Apelcos sell for only \$489 and will remove the SA offset all together. The guys at E&B was really helpful...he said you can also expect to see prices drop 20-25% at most boat shows...there you can really pick up deals on closeouts or just plain good deals in general. E&B also sells instructions tapes for each brand of GPS. They also sell a neat little universal mounting bracket with suction cups for sticking it to the windshield, or a tilt back for desktop or dashtop mounting and a lip for hanging it over a small edge (like a cup holder)...this nifty little thing sells for only \$15. (Looks like a good mounting solution for HT's too!)

Am I missing something with the Garmins? Anybody want to buy a brand new trailblazer with nmea/power cable?

73,

Tim N1BTQ
Temporary in Tampa....headed back to MA 5/25
tsmith@fibusa.com
Data/power cable alone \$45

481. new user question

From: Swilsonac6@aol.com
Date: Thu, 25 May 1995 01:11:51 -0400
To: aprssig@tapr.org
Message-ID: <950525011147_11705389@aol.com>
Rendered body type: text/plain

Thanks for the help to "new user" on setting up the unproto path for a duel port KAM. I sent off the query during a very frustrating 3:00am session after not being able to set my HF path for gate, wide without changing my VHF path to the same, which resulted in a warning about linking from VHF to HF even when I was only transmitting on HF. On the fifth re-reading of the aprs documentation, I discovered very clear instructions in the HF.txt. Thanks again and sorry for the QRM. Steve AC6DR

482. Re: [APRSSIG:1438] Re: Magellan Accessories

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Thu, 25 May 1995 00:36:36 -0500
To: aprssig@tapr.org
Message-ID: <9505250536.AA01468@omnifest.uwm.edu>
Rendered body type: text/plain

Can you PLEASE give me the address and phone number for E&B? Where can I get a catalog or brochure?

Thanks in advance.

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.#EN63FF.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

483. Digital Communications Conference

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 25 May 1995 00:58:13 -0500
To: aprssig@tapr.org
Message-ID: <v01510101abe8cfa03466@[199.1.11.172]>
Rendered body type: text/plain

1995 ARRL Digital Communications Conference
September 8-10th, 1995
Arlington, Texas (minutes from DFW airport)

On Friday Sept 8 , Keith Sproul, WU2Z, will hold a workshop on APRS packet-location software. Keith is the Chair of the TAPR APRS Special Interest Group, developer of the Macintosh version of APRS, and a leader in the area of APRS technology. This is a unique opportunity to gain insight into this fast growing new digital aspect of amateur operations that combines computers, packet radio, and GPS (Global Positioning Satellites).

I will be looking forward to this conference.

I hope we can find a time and place to hold a birds of a feather meeting. I will be happy to compile a list of the APRSSIG members attending the conference. E-Mail (kc5ejk@onramp.net)

Bob KC5EJK Dallas

484. Post of Sailplane Track

From: parker@rincon.com (Mike Parker)
Date: Wed, 24 May 1995 23:41:03 -0700
To: aprssig@tapr.org
Message-ID: <199505250641.XAA18898@mailhost.primenet.com>
Rendered body type: text/plain

In response to several requests, I have posted the track of sailplane 71 taken last Sunday in the aprssig upload area. The file name is soar5_95.hst I'm new to this, so let me know if there are any problems accessing the post.

485. Creating Maps with Track History

From: RonN9QGS@aol.com
Date: Thu, 25 May 1995 07:49:41 -0400
To: APRSSIG@tapr.org
Message-ID: <950525074940_11777144@aol.com>
Rendered body type: text/plain

I was wondering after I get my Mobile set up how do I need to go about creating roads by just driving them, I heard it was very simple, but have no clue what is involved, do you need it hooked to a TNC or can I do it over the air to another station and log the data that way (even if I use simplex) so I can send updates very often...)?

Ron

486. Magellan Meridian pinouts

From: Dick Mead <mead@skat.usc.edu>
Date: Thu, 25 May 95 9:49:21 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.801420561.mead@hamal.usc.edu>
Rendered body type: text/plain

These are the pin assignments for my Meridian. I consider the top pin, when looking at the back, with the unit rightside-up, to be pin 1. The connector on mine is a vertical slot with 6 pins at the lower left edge on the back. Mine is circa 1993, yours may differ.

Pin 1 == +6.0 VDC
2 == N/C
3 == TX Data + (I use the DCE mode, so this goes to RS-232 pin 3)
4 == N/C
5 == TX Data - (goes to RS-232 pin 7)

6 == DC ground

I used IC socket pins with small shrink-wrap when I made my cable. I only used the data pins then, however. I have since gotten the commercial cable.

On all the PC's I tried, the data flowed fine. On some Macs, a bias resistor was required between pins 2 and 3 (referring to a 25-pin RS-232) so the data lead could swing negative enough for the Mac to see data.

Dick WB6NGC

487. Re: [APRSSIG:1444] Magellan Meridian pinouts

From: hysell@kodak.com (John D. Hysell)
Date: Thu, 25 May 95 13:08:43 EDT
To: aprssig@tapr.org
Message-ID: <9505251708.AA02877@runner.itc.Kodak.COM>
Rendered body type: text/plain

Thanks very much, Dick. I will put this info to work this weekend, as my trailblazer arrived yesterday (perfect timing!). I was a bit surprised at how long the trailblazer takes to acquire the satellites, and how easily it loses their signals. I may take a look at the Garmin line before my ability to return the trailblazer expires... I have heard that the Garmin 45 is more sensitive.

73 and thanks
de KF2XC
John

488. Re: [APRSSIG:1410] APRS & PK-12

From: philkeys@olympus.net (Phil Keys)
Date: Thu, 25 May 1995 11:22:33 -0800
To: aprssig@tapr.org
Message-ID: <v01510101abea7e45414c@[198.133.237.32]>
Rendered body type: text/plain

Hello Sam

I saw your post about APRS. I'm about to get started in APRS here, maybe we can keep in touch. My first try will be MacAPRS on my Mac.

I'm involved in Jefferson County ARES/RACES and Search and Rescue.

I recently attended a class in Port Angeles presented by two Pierce County fellows on urban rescue. Very interesting and informative. If there is ever an earthquake in Port Townsend, we are going to need it.

73
Phil Keys
KJ7ET

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

489. Re: [APRSSIG:1444] Magellan Meridian pinouts

From: Bob Lorenzini <wd6dod@wd6dod.ampr.org>
Date: Thu, 25 May 1995 13:04:29 -47900
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9505251220.A120-0100000@wd6dod.ampr.org>
Rendered body type: text/plain

On Thu, 25 May 1995, Dick Mead wrote:

>
> These are the pin assignments for my Meridian. I consider the top
> pin, when looking at the back, with the unit rightside-up, to be
> pin 1. The connector on mine is a vertical slot with 6 pins at the
> lower left edge on the back. Mine is circa 1993, yours may differ.
>
> Pin 1 == +6.0 VDC
> 2 == N/C
> 3 == TX Data + (I use the DCE mode, so this goes to RS-232 pin 3)
> 4 == N/C
> 5 == TX Data - (goes to RS-232 pin 7)
> 6 == DC ground
>
> I used IC socket pins with small shrink-wrap when I made my cable. I only

> used the data pins then, however. I have since gotten the commercial cable.

I also did something similar. I used socket pins from a db connector, put shrink tube on the pins and placed them in I believe a molex plastic housing and carefully potted it with epoxy and shaped it to fit the GPS. I also found that the regulated voltage in adjusts the contrast so if you use a 5V 3 terminal reg you will have to bias it about 5.75 if my memory serves me correctly. I finally returned the meridian for a NAV 1200 which better suits my marine requirements.

Bob - wd6dod
bob1@citpac.gps.caltech.edu

490. RE: [APRSSIG:1426] Re: GPS set-up

From: "John W. (Bill) Hays, W00MV" <billh@netins.net>
Date: Thu, 25 May 1995 15:42:52 CST
To: aprssig@tapr.org
Message-ID: <00990E3E.A8FC29AA.43@netins.net>
Rendered body type: text/plain

TNX Gerry!
73
Bill

491. Re: [APRSSIG:1338] Re: MFJ Data Radio Avail.

From: JKANDEL@umiami.ir.miami.edu
Date: Thu, 25 May 1995 17:24:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HQXF6X6M36A5WEM3@umiami.ir.miami.edu>
Rendered body type: text/plain

Gwyn,
Good one.
Joel KI4T

492. Re: [APRSSIG:1373] Re: Hookup Help

From: JKANDEL@umiami.ir.miami.edu
Date: Thu, 25 May 1995 17:41:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HQXFQ7C8U0A5WEM3@umiami.ir.miami.edu>
Rendered body type: text/plain

Keith,
Have you had the opportunity to poke around a SONY IPS-760 (PYXIS) GPS unit?
If so, do you have any idea what sort of output it has?
Joel, KI4T
jkandel@gate.com

493. pk 900

From: theojkat@omni.voicenet.com (Ted Katz)
Date: Thu, 25 May 1995 19:46:05 -0400
To: aprssig@tapr.org
Message-ID: <9505252351.AA26955@voicenet.com>
Rendered body type: text/plain

I need help,, I was running aprs68a on a 486/66.
Now running the same rev or 69 , I get the following problem.

APRS will not int the TNC. In fact it will not talk to it??? (intermiten)

I must re-boot. (the system locks when leaving APRS) @ SAVING BACKUP.BK.

Switching to windows AEA PK program all is OK? When I try to restart APRS it hanges again.

Using procomm I can talk to the TNC ... but again when aprs is started the tnc hangs.

I left the TNC connect for 12 hours in the windows mode and copied all traffic on the aprs freq.

I have also tried an other TNC PK232 MBX.
??
MY Break Out Box shows no control line problems.

494. Help with Mapfix and CD-Rom

From: wnoille@fly.HiWAAY.net
Date: Thu, 25 May 95 18:50:14 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950525190013.wnoille@wnoille.HiWAAY.net>
Rendered body type: text/plain

Hi, i need some help. I just received my USGS 1:100,000 CD and extracted the files i was after. Then following the documentation by Ken Swaggart W7KKE i used CONV100.BAS. All that went well. Then i went to the MAPFIX.BAS program to attempt to import the files. Well first question is how can i import these files without first having a map to import them into. Second question when doing the ALT-U it asked me to enter the following ENTER PATH AND S?? TO USGS FILE. Well i don't know what the S?? stands for, in my case the path is D:\MAPS this is the directory i have everything in including the extracted CD files. Could it be that the S?? means scale i don't really know right now. I have tryid several ways but MAPFIX just sits there not doing anything. Sure would like to start making some maps Hi.

-----<<< Bill >>>-----

495. Re: [APRSSIG:1451] pk 900

From: Rod Proctor <rproctor@u.washington.edu>
Date: Thu, 25 May 1995 18:18:07 -0700 (PDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.ULT.3.91a.950525181551.29611B-100000@akbar.u.washington.edu>
Rendered body type: text/plain

Make sure PK-900/PK-232 is in COMMAND mode not HOST mode when you exit Pakratt. There is an option called "Host mode on exit" This should be turned off.
Rod, KI7ZI

On Thu, 25 May 1995, Ted Katz wrote:

> I need help,, I was runnining aprs68a on a 486/66.
> Now running the same rev or 69 , I get the following problem.
>
> APRS will not int the TNC. In fact it will not talk to it??? (intermiten)
>
> I must re-boot. (the system locks when leaving APRS) @ SAVING BACKUP.BK.
>
>
> Switching to windows AEA PK program all is OK? When I try to restart APRS it
> hanges again.
>
> Using procomm I can talk to the TNC ... but again when aprs is started the
> tnc hangs.
>
> I left the TNC connect for 12 hours in the windows mode and copied all
> traffic on the aprs freq.
>
> I have also tried an other TNC PK232 MBX.
> ???
> MY Break Out Box shows no control line problems.
>
>
>
>
>
>

496. Re: [APRSSIG:1364] MFJ crystals

From: "Roderick, Ren" <rroderick@intp.intp.com>
Date: Thu, 25 May 95 18:33:22
To: aprssig@tapr.org
Message-ID: <9504258014.AA801452002@intp.intp.com>
Rendered body type: text/plain

OK. I bought one at Dayton, only paid \$95 for it on Sunday.

Here is the Crystal data from page 7 of version 1A of the manual:

-----Start of page 7-----

ORDERING CRYSTALS:

You may order crystals for other channels factory-direct. Crystal

specifications are:

Receiver Crystal:

Operating Freq - 10.7 MHz	
XTAL Freq. = -----	
3	My calculator says that is
	45.0300 MHz for 145.79
TYPE 3rd Overtone (44-MHz range)	Looks about right
TOLERANCE 0.003% Commercial Standard	=====
TEMPERATURE 26-Degree C (room temperature)	
LOAD Series	
CASE HC-25U or FM-2	

Transmitter Crystal:

Operating Freq.	
XTAL Freq. = -----	
8	My calculator says
	18.22375 MHz for 145.79
TYPE: Fundamental Mode (18-MHz range)	OK
TOLERANCE: 0.003% Commercial Standard	=====
TEMPERATURE: 26-Degree C (room temperature)	
LOAD: 32 pF, Parallel	
CASE: HC-25U or FM-2	

Crystals for the MFJ-8621 may be ordered directly from:

JAN Crystals
PO Box 06017, 2341 Crystal Drive
Fort Myers, FL. 33906-6017
Telephone (800) 526-9825, FAX (813) 936-3750

When ordering from JAN, simply tell the sales person that you wish to order a pair of crystals for the MFJ-8621 Data Radio and give the *operating frequency* in MHZ. JAN has complete MFJ-8621 crystal specification on file in their ordering system and no additional information is required. Alternatively, you may purchase crystals from:

International Crystal Manufacturing Co., Inc. (ICM)
PO Box 26330, 701 W. Sheridan
Oklahoma City, OK 73123-0330
Telephone: (405) 236-3741, FAX (405) 235-1904

For receiver crystals, order 471270-CRYSTAL FREQ (not the operating freq.)
For transmitter crystals, order 434275-CRYSTAL FREQ (not the operating freq.)
JAN and ICM both welcome telephone orders and accept MasterCard or VISA.

-----End of page 7-----

PLEASE calculate your own crystal frequencies. I just used the Calculator in WINDOWS to do this (complete with all of its inaccuracies!).

I haven't yet ordered crystals, so I can't personally vouch for the accuracy of the information printed in the MFJ manual.

Good Luck!

73 de Ren WA7QFR
rroderick@intp.com
renr@eskimo.com
renr@stimpy.wa7qfr.ampr.org

Reply Separator

Subject: [APRSSIG:1364] MFJ crystals
Author: aprssig@tapr.org
Originator: aprssig@tapr.org at Internet-Mail
Date: 5/22/95 11:01 AM

As we've all been discussing the MFJ and its crystals, howabout the first person who gets one putting the specs for ordering crystals here on the mail list? That way, we can go about the business of ordering the crystals at the same time we order the "wrong" units! [grin]

~ KWQ/2 1.2a ~ "640K ought to be enough for anybody." - Bill Gates, 1981

497. Meridian NMEA output needed

From: RonN9QGS@aol.com
Date: Thu, 25 May 1995 21:38:47 -0400
To: APRSSIG@tapr.org
Message-ID: <950525213844_12996555@aol.com>
Rendered body type: text/plain

Okay as I look at the back of the Magellan Meridian/Trailblazer, there is 6 pins, which 2 are the ones you use for the KPC-3?
NMEA+ and NMEA-
Thanks

498. Re: [APRSSIG:1446] Re: APRS & PK-12

From: SDRoe@aol.com
Date: Thu, 25 May 1995 21:45:11 -0400
To: aprssig@tapr.org
Message-ID: <950525214506_12512768@aol.com>
Rendered body type: text/plain

Hello Jeff & Thanks for the Message.

Yes, I would very much like to keep in touch. I think all of Western Washington should have a better way of working together between the different counties. Like you say, during a real disaster we will have to and we should be practicing that now.

Anyway, we plan on putting APRS on at least one repeater site. (APRS Frequency not know yet, may have to coordinate with WWARA) and would like to put up an ATV repeater also. Hopefully we can outfit the ESAR kids and 4 X 4's with all of this stuff. We already have about 25 Garmin GPS. Some are Garmin 75's and some are Garmin 45's.

If you can hit it I am usually on 145.370 (PL 136.5) as this is our primary emergency repeater. You might also catch me on 146.640 (PL 103.5). If you can't hit either of these let me know some you can reach and I will give them a try. I live on the South Hill of Puyallup and have pretty good coverage from here.

Here are a few other ways to contact me if you would like:

Sam Roe (KB7QQQ)
14611-132nd Ave E
Puyallup, Wa. 98374
(206) 845-1832 Home Phone
(206) 280-81288 Pager
KB7QQQ@WA7NTF.#WWA.WA.USA.NOAM

73's
Hope to here from you soon

499. Re: [APRSSIG:1452] Help with Mapfix and CD-Rom

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 25 May 1995 21:18:55 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505260218.VAA25317@solar.cs.tamu.edu>
Rendered body type: text/plain

wnolle@fly.HiWAAY.net sez:
>

> Hi, i need some help. I just received my USGS 1:100.000 CD
> and extracted the files i was after. Then following the
> documentation by Ken Swaggart W7KKE i used CONV100.BAS.
> All that went well. Then i went to the MAPFIX.BAS program
> to attempt to import the files. Well first question is how can i
> import these files without first having a map to import them into.

Enter it into a new (and therefore blank) map. Use the NORTHWEST control point in the first part of the 100k USGS file (it's in the header within the first 20 lines) to determine the mapfix point-of-origin. Then do an ALT-G, and after it's entered a layer, save it to a file. Then, do it again, and save it to ANOTHER file. etc.

> Second question when doing the ALT-U it asked me to enter the following
> ENTER PATH AND S?? TO USGS FILE.
> Well i don't know what the S?? stands for, in my case the path is
> D:\MAPS this is the directory i have everything in including the
> extracted CD files. Could it be that the S?? means scale i don't really
> know right now. I have tryid several ways but MAPFIX just sits there

> not doing anything. Sure would like to start making some maps Hi.

You'd have made your life a lot easier extracting the 100k files to another directory. Makes it easier to keep track of. Since I've had to blow away all my CD files (and don't feel like going up to the library to check more out, aren't the filenames referenced to something S-ish somewhere in the file name? It's looking for a pointer, and builds a name from the info you give it.

You also want to go grab conv100c and mapfix68. They work much better than the others...

73, gerry

500. APRS Registration

From: SDRoe@aol.com
Date: Fri, 26 May 1995 02:27:42 -0400
To: aprssig@tapr.org
Message-ID: <950526022741_13134449@aol.com>
Rendered body type: text/plain

Hello Bob,

I couldn't find an E-Mail address anywhere in the APRS files so I hope you get this. Just put \$33.00 in the mail to register APRS 69 and a GPS. IF you could lease E-Mail the Registration # to me at SDRoe@aol.com. I would very much like to demo this at the Washington State Search & Rescue Conference we are sponsoring from June 2nd thru the 4th.

Hope this doesn't inconvenience anyone but as you can see I don't have a lot of time if I am going this up and running next weekend.

Thanks and 73
Sam Roe (KB7QQQ)

501. Re: [APRSSIG:1451] pk 900

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Fri, 26 May 1995 07:25:49 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526072420.7233A-100000@pinegov>
Rendered body type: text/plain

On Thu, 25 May 1995, Ted Katz wrote:

> I need help., I was running aprs68a on a 486/66.
> Now running the same rev or 69 , I get the following problem.
>
> APRS will not int the TNC. In fact it will not talk to it??? (intermiten)
>
> I must re-boot. (the system locks when leaving APRS) @ SAVING BACKUP.BK.
>
>
> Switching to windows AEA PK program all is OK? When I try to restart APRS it
> hanges again.
>
> Using procomm I can talk to the TNC ... but again when aprs is started the
> tnc hangs.
>
> I left the TNC connect for 12 hours in the windows mode and copied all
> traffic on the aprs freq.
>
> I have also tried an other TNC PK232 MBX.
> ??
> MY Break Out Box shows no control line problems.
>
>
>
>
>
>

The first thing to check is the INIT file in the \SYSTEM directory.
Version 69 has a new INIT file. If you made any changes to this file
when you originally installed APRS, you must make these changes again.

Good Luck.

de Kevin KD4UYR
Seminole, Florida

502. USGS CD Rom Questions

From: RonN9QGS@aol.com
Date: Fri, 26 May 1995 07:29:16 -0400
To: APRSSIG@tapr.org
Message-ID: <950526072914_13174981@aol.com>
Rendered body type: text/plain

I was told this disk is available for just over \$32? There are 2 versions, which version would I want for APRS applications, Is this disk good for Mac also, cause I may be playing with a Mac in the future and don't want to buy 2 disks. Can you view the data off the disk with their viewer? I am assuming this is a media type topographic map (quad) for the whole United states or maybe half of the united states, correct? Who do I write to and what is shipping?

503. Meridian Pin out

From: RonN9QGS@aol.com
Date: Fri, 26 May 1995 07:30:37 -0400
To: APRSSIG@tapr.org
Message-ID: <950526073035_13175179@aol.com>
Rendered body type: text/plain

Thank you for responding to the pinout, Now I just have to get some connectors and I can have it temp. setup until I get my free data cable in the mail, I was so shocked to get a coupon with the unit for teh data power cable and bracket, just what I wanted to order.

504. APRS road lines dim

From: RonN9QGS@aol.com
Date: Fri, 26 May 1995 07:40:04 -0400
To: APRSSIG@tapr.org
Message-ID: <950526073916_13176929@aol.com>
Rendered body type: text/plain

I was wondering, I don't know if I am the only one experiencing this problem, but I just edited a whole area of Chicago, and the maps lines in Red (Major Roads) is very dim if they run N and S, and the rest of them running East and West are nice and noticable, I find that the gray also is very different then the E and West. What can correct this so the North South roads show just as well?

Ron

505. heeello, testing

From: Vesa Myllykangas <vesa.myllykangas@fin1701.icl.icl.elisa.fi>
Date: Fri, 26 May 95 14:34:36 300
To: aprssig@tapr.org
Message-ID: <9505261238.AA19288@icl.fi>
Rendered body type: text/plain

test message

de Vesa OH6MJM

506. Re: [APRSSIG:1461] Meridian Pin out

From: rwf@mindspring.com (rwf)
Date: Fri, 26 May 1995 08:48:31 -0500
To: aprssig@tapr.org
Message-ID: <199505261245.IAA11567@dylan.mindspring.com>
Rendered body type: text/plain

Ron Said:

>Thank you for responding to the pinout, Now I just have to get some
>connectors and I can have it temp. setup until I get my free data cable in
>the mail, I was so shocked to get a coupon with the unit for teh data power
>cable and bracket, just what I wanted to order.

Guess they are responding to the market pressures.

507. another test

From: Myllykangas Vesa <Vesa.Myllykangas@FIN1701.ICL.ICL.elisa.fi> (Tel +358-0-5696384)
Date: Fri, 26 May 1995 15:51:00 +0300
To: aprssig <aprssig@tapr.ORG> (Receipt Notification Requested) (Non Receipt Notification Requested)
Message-ID: <G7002129A0190000010A00010CE70166*@MHS>
Rendered body type: text/plain

Hi all !

How about this ? Pse reply if this came through !

73 de Vesa OH6MJM

508. Re: [APRSSIG:1465] another test

From: S.Miller@rus.uni-stuttgart.de (Shannon Miller)
Date: Fri, 26 May 1995 15:17:49 +0200 (MET DST)
To: aprssig@tapr.org
Message-ID: <9505261317.AA17355@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

Tel writes:

>
> Hi all !
>
> How about this ? Pse reply if this came through !
>
>
> 73 de Vesa OH6MJM

It did. No more testing please!

--Shannon

509. APRS for Skywarn,Races,Ares

From: wnolle@fly.HiWAAY.net
Date: Fri, 26 May 95 08:30:26 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950526083957.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

Our plans have been to mainly use APRS for heavy weather in conjunction with the local Red Cross and the ham community. Well after nearly two years we have finally got the system in motion and several weather stations have been placed. We finally installed a Digi on top of one of the local mountains and figured we would be in great shape for the next severe weather condition. Well folks guess again. After we installed the digi and started seeing other digi's we also started seeing a lot of HF stations from all over the country and Canada!. At any given time i had 4 screens full (47 stations showing)on my map. After several days of this i decided to do some testing if this would hamper the idea of using APRS for this type of function. I started sending messages at different times with or without the HF traffic present!. I can tell you right now forget using APRS for Skywarn,Races or Ares unless you have a dedicated frequency just for an operation like that. We have 145.790 as the coordinated frequency in this area, but looking at this right now i would say this frequency will never fly for this purpose. I asked several HF APRS users if VHF users can also beacon to HF, Well the answer i got rather made me want to turn off my computer,TNC and radio and forget the whole thing. One person told me that at Bob's request not to beacon VHF station onto HF because it would clutter up the HF map to much. Well friends that's what is happening on VHF. I don't understand this anyway. Why would an HF station beacon onto VHF anyway when they can communicate much better just on the HF band?. I am not trying to knock APRS or Bob or any of it's users, i have been using APRS from it's inception but as things are don't waste your or the other peoples money attempting to use APRS for community service on 145.790Mhz. We had a demo at the Birmingham hamfest and there where several poeple there from the NWS and they sounded very optomistic about a community using a system like APRS. Well this was during a time of day when no HF stations were present. We again had planned to have a BIG demo at the local Huntsville,AL hamfest in August, well as it stands right now i would totally disagree with attempting such a demo for it would be a flop if there was a band condition allowing HF station to show on the VHF frequency. We have regular meetings once a month and our first topic of course will be this question (Should we abandone this idea).

-----<< Bill >>-----

510. Re: [APRSSIG:1307] ASCII characters on startup

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 10:48:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526104541.26887A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 18 May 1995, Don Larsen wrote:

> I have had a problem with the last couple of versions that I have
> downloaded. It seems that every time that I boot the program and the
> program initializes the tnc, all I get from the tnc are ASCII characters.

APR REPLY: Many TNC's are having problems with the command PAR 0 which I put in the InitTAPR.TNC file. This was needed to set up the MFJ TNC's to the right parity. Now it seems that the KAM does not like PAR 0 but prefers PAR 4. Maybe your TNC does not like PAR 0 either? Use a text editor to change the file in APRS\SYSTEM\InitTAPR.TNC.

511. Re: [APRSSIG:1310] Magellan Trailblazer question

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 10:53:52 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526105313.26887D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 18 May 1995 ChicagoWx@aol.com wrote:

> When I hook the GPS into the KPC-3, can I still access full control over the
> display unit so I can use the features of the GPS as I would normally without
> the NMEA cable hooked up? Just wanted to make sure cause I want to mount the
> GPS near the drivers cabin and run cables under the seat to radios. I would

APR REPLY: Yes. GPS works normally while outputting NMEA data.

512. Re: [APRSSIG:1467] APRS for Skywarn,Races,Ares

From: Kent Larson <klarson@access.digex.net>
Date: Fri, 26 May 1995 11:04:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526110116.16184A-100000@access2.digex.net>
Rendered body type: text/plain

Bill,

Maybe a request to Bob to provide an HF filter that would ignore the GATED packets would be a practical approach.

Kent

On Fri, 26 May 1995 wnolle@fly.hiwaay.net wrote:

> Our plans have been to mainly use APRS for heavy weather in conjunction
> with the local Red Cross and the ham community. Well after nearly two
> years we have finally got the system in motion and several weather
> stations have been placed. We finally installed a Digi on top of one of
> the local mountains and figured we would be in great shape for the next
> severe weather condition. Well folks guess again. After we installed the
> digi and started seeing other digi's we also started seeing a lot of HF
> stations from all over the country and Canada!. At any given time i had
> 4 screens full (47 stations showing)on my map. After several
> days of this i decided to do some testing if this would hamper the idea
> of using APRS for this type of function. I started sending messages at
> different times with or without the HF traffic present!. I can tell you
> right now forget using APRS for Skywarn,Races or Ares unless you have a
> dedicated frequency just for an operation like that. We have 145.790 as
> the coordinated frequency in this area, but looking at this right now
> i would say this frequency will never fly for this purpose. I asked
> several HF APRS users if VHF users can also beacon to HF, Well the answer
> i got rather made me want to turn off my computer,TNC and radio and forget
> the whole thing. One person told me that at Bob's request not to beacon
> VHF station onto HF because it would clutter up the HF map to much. Well
> friends that's what is happening on VHF. I don't understand this anyway.
> Why would an HF station beacon onto VHF anyway when they can communicate
> much better just on the HF band?. I am not trying to knock APRS or Bob
> or any of it's users, i have been using APRS from it's inception but
> as things are don't waste your or the other peoples money attempting to
> use APRS for community service on 145.790Mhz. We had a demo at the
> Birmingham hamfest and there where several poeple there from the NWS and
> they sounded very optomistic about a community using a system like APRS.
> Well this was during a time of day when no HF stations were present. We
> again had planned to have a BIG demo at the local Huntsville,AL hamfest
> in August, well as it stands right now i would totally disagree with
> attempting such a demo for it would be a flop if there was a band condition
> allowing HF station to show on the VHF frequency. We have regular meetings
> once a month and our first topic of course will be this question

> (Should we abandone this idea).
>
> -----<< Bill >>-----
>
>
>

513. Re: [APRSSIG:1319] Meridian Research

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 11:09:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526110912.26887F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

The pin out for the Meridian (trailblazer) is in my GPS.txt file
(somewhere hi hi)

514. Re: [APRSSIG:1321] Re: Washington Puget Sound map

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 11:15:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526111455.26887H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Max number of points reamins at 2999. No plans to increase them...
Will begin working on a compression scheme tho, to make map files half as
big and therefore load twice as fast....

515. Re: [APRSSIG:1467] APRS for Skywarn,Races,Ares

From: rwf@mindspring.com (rwf)
Date: Fri, 26 May 1995 11:30:39 -0500
To: aprssig@tapr.org
Message-ID: <199505261527.LAA10247@dylan.mindspring.com>
Rendered body type: text/plain

blah blah blah about aprs HF snipped

>(Should we abandone this idea).
>
>-----<< Bill >>-----
>
>
>

Bill- You already got a response from someone telling you how to stop
seeing the HF stations if you wanted. Maybe your mail server crapped out
(again) and you missed it.

I usually find it very enlightening just to sit back and listen, rather than
to just impulsively say what I think..

BTW- I have sent you several msgs about yours (and ours) APRF ops but you
have never replied!

Ralph Fowler
N4NEQ
Marietta, GA

516. Re: [APRSSIG:1328] APRS in Europe

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 11:32:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526112510.26887K-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 19 May 1995, Hermann Schumacher wrote:

> I wonder if there are any other Europeans on this list. We (a couple of EE
> students and myself) have been playing around with APRS for a while now -
>
> A communications company will probably provide us with a number of GPS
> receivers in July, and I hope that will give APRS activity a boost.

APR REPLY: PA0RYS in Uitgeest Netherlands just sent me a paper Map of
Europe and the Netherlands in detail. But the N map has no LAT/LONG
references, and I hesatate to begin the European map because it is not a
mercator projection. If you guys in Europe have made some maps already,
then I need them so that I can complement your efforts and not waste time
duplicating them.

I notice that most european maps (2 that I have seen) do NOT use the color GREEN for the fastest autobasins? But our INTERSTATES are coded GREEN in APRS. If I continue to make the fastest roads green will that confuse europeans?

Oh, contact PA0RYS in the Netherlands via his friend:
smink.t@applelink.apple.com. I am not sure of the decimal in the address, that was sent to me in all uppercase in a typewritten letter by PA0RYS who may not have the address letter-perfect.?

517. Re: [APRSSIG:1344] VERSION 6.9

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 11:55:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526115307.268870-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 20 May 1995, BARRY BRYANT wrote:

> I have just downloaded the new version 6.9, from my computer and
> copy it to a floppy. just unzip it on my laptop and try to start the
> program. It went thru the beginning and after entering all the details it
> is suppose to start with the USA MAP. BUT I RECEIVED THIS MESSAGE:
>
> can not run without maplist.usa
>
> please let me know how to fix the problem.

APR REPLY: Be sure you have MAPLIST.USA in your APRS directory. Best to start version 6.9 from scratch APRS69/new to be sure that your old CFG file is not pointing to the old MAPLIST.APR

518. Re: [APRSSIG:1346] RE: MFJ DA

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 12:01:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526115631.26887P@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sat, 20 May 1995 jeff.brenton@espi.com wrote:

> Ralph Fowler commented, "It is strange to be forced to spend another
> 20% or so of the original cost of the radio to recrystal just so we can
> throw away the ones that we don't want (but were forced to buy)."
>
> I agree, but suspect MFJ would only lower the price about \$10 if they
> didn't include crystals... Partly because they STILL have to put
> crystals in it sometime to test it, so it would cost them to take them

APR REPLY: Write or call MFJ. I encouraged them to start stocking 145.79 and they (the boss) agreed that they would, if the demand was high enough. SO THEY WILL DO IT IF ENOUGH OF US ASK THEM TO! I assume that once they get the production bugs out of the radio, they will settle down and figure out that APRS trackers may be 50% of their sells of these radios??? So BUY your 145.79 XTAL from them so that they SEE THE DEMAND... OR SEND THEM A LETTER.
p.s You could try to sell your 145.01 xtals in San Francisco area (APRS FREQ there) but since they all come with .01, nobody needs them there! hi hi

519. Re: [APRSSIG:1366] Disturbing Answer

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 12:39:20 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526122258.26887T-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 22 May 1995 wnoille@fly.HiWAAY.net wrote:

> While running our local APRS there was a station WA4KBD which
> is running a HF gate, I asked him if there was any objection to
> us beaconing our position through his gate to HF. I was rather
> upset with his answer in that he told me that Bob Bruninga made
> a statement that it would clutter up the HF map too much....

APR REPLY: Its NOT the map clutter that is the concern, ITS THE CHANNEL CAPACITY. Mathematically you will soon see that routinely GATEing VHF users to HF will kill the APRS HF network. I see about 40 users on HF. That keeps the 300 baud HF channel pretty busy...

Now if you add to that, 50 users in Wash-Balto, 80 in Calif, 40 in AZ, 50 in Florida, 50 in Ohio, etc, etc, all beaconing 1200 baud via their VHF gateways onto the 300 baud HF channel, nothing would get through AT ALL. Also with all of these potential VHF-to-HF gateways all over the place, there is NO WAY TO CONTROL it or "turn the function OFF" in case of emergency traffic or other special needs.

The reverse, gating HF into VHF nets is NOT much of a problem, however. The most you will see is the additional 40 HF users added to your existing VHF net. If you dont want to clutter your local map, simply ask the local HF gateway to turn OFF or put his call in your BUD list (OFF). The important point is that you OR your local net DOES have control over this added load.

NEW IDEA! I do agree that sometimes one does NOT personally want to clutter his own map with GATEwayed HF stuff. I will add a feature in 6.9+++ whatever, that will allow a user to IGNORE incoming HF gateway stuff. Thanks for the feedback... I believe the MAC already has this.

520. Re: [APRSSIG:1368] New user question

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 12:43:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526124133.26887U@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 22 May 1995 Swilsonac6@aol.com wrote:

> I am a "new user" of APRS 6.8. using a KAM +. I have only a HF station.
> When I try to change my unproto path from "none" to "gate, wide", I
> get a warning message about using gateways to link from VHF to HF.

APR REPLY: Tell APRS that you are using HF by hitting the CONTROLS-HF command (C key then the H key), then it should NOT give you the warning.

521. Maps for Eldorado Co?

From: dlarsen@spider.lloyd.com (Don Larsen)
Date: Fri, 26 May 95 09:58 PDT
To: aprssig@tapr.org
Message-ID: <m0sF2i0-0010VOC@spider.lloyd.com>
Rendered body type: text/plain

Hi All,

I am wondering if any one konws if there are any new maps for the foothills of Northern Calif. I am particularly interested in El Dorado County. If not I wonder if any one has had any luck in converting the 100K maps that can be found on internet. I keep getting stuck with them in that there are no delimiters in the data and there for the program looks to big for most of the map conversion programs. Thanks for the help.

Don Larsen, N4JOP@KM6PX.#NOCAL.CA.USA.NA

dlarsen@spider.lloyd.com

P.O. Box 941

Camino, CA 95709

522. Re: DF Zooming Bug in v69

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 13:03:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526125609.26887X@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 22 May 1995 wnolle@fly.HiWAAY.net wrote:

> Bob, you need to know the following information what
> i believe to be a major bug in release 69. Bob i believe you
> have made some changes as to the DF bearing line. Well when i
> [zoom into 0.125 mile range while a DF bearing is on the screen,
> I get a crash to DOS]

APR REPLY: Excellent feedback! Recently, due to other feedback indicating that my DF line was too short on zooming in, I increased its relative length (during zooming)... And now of course, it must be too long and blows up. Oh well, that shows the fun of making minor tweaks... You fix one thing, and break another!

For now, just dont zoom in so far until I get a chance to fix that....

523. Re: [APRSSIG:1410] APRS & PK-12

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 15:22:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526151726.29570C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain
More on the PK-12:

Using BBSMSGs will sort of solve the problems, but ONLY if you then modify INITTAPR.TNC to look like INITAEA.TNC. And then also tell APRS that you DO NOT use an AEA. The problem is that BBSMSGs ON makes the stuff coming out of the PK-12 to look like a standard TNC, but it still needs to see the unique AEA commands coming IN during initialization.

Please pull some more hair out, and try to find a way to make the PK-12 work with BBSMSGs OFF. Trying to tell people to turn BBSMSGs ON and then to tell APRS that it is NOT an AEA but then putting all the AEA commands into the file named InitTAPR.TNC will just totally confuse everyone, hi hi..

Thanks...

524. Re: [APRSSIG:1473] Re: APRS for Skywarn,Races,Ares

From: wno1le@fly.HiWAAy.net (William Nolle)
Date: Fri, 26 May 1995 13:42:38 -0500
To: aprssig@tapr.org
Message-ID: <9505261844.AA15385@fly.HiWAAy.net>
Rendered body type: text/plain

Yes that may be true, but simple HF stations not showing on the map is not the answer because they simple are still there send much much traffic!.
Blah,Blah,Blah.

525. Re: [APRSSIG:1467] APRS for S...

From: W2H0B@aol.com
Date: Fri, 26 May 1995 14:51:35 -0400
To: aprssig@tapr.org
Message-ID: <950526145116_13557067@aol.com>
Rendered body type: text/plain

Bill Nolle

If what you are being told about APRS wants to make you turn off your radio, WHY DON'T YOU. I, for one, am tiring of hearing your unfounded and ungracious complaints.

1. Either you are being fed incorrect information or you are misinterpreting what you are being fed.
2. I suspect you are not as familiar with the program as you think you are.
3. Gateway'ing has nothing to do with map/object density.
4. Read the docs and then ASK about your perceived problems instead of complaining about what usually turns out to be non-problems.

I'm having fun with this and I wish you wouldn't come across with such rudeness. 73 de Boyd AR

526. Registration number request

From: "Aitor Arrieta G." <aitor@mail.internet.com.mx>
Date: Fri, 26 May 95 11:03:13 CST
To: aprssig@tapr.org
Message-ID: <52954.aitor@mail.internet.com.mx>
Rendered body type: text/plain

Hi Bob.

My name is Aitor Arrieta (XE1YAW) and i live in Mexico City. Past Tuesday i send to you the registration form and the money for the APRS Shareware (\$24.00 dls) and the GPS registration (\$9). The total was \$33.00. I already have the software version 6.8B. XE1KK buy one to you at Dayton Hamvention and give me a copy. So the only thing that i need know are the two registration numbers. I really appreciatte i you can send me these two numbers by this way.

Also i have a question to you. Yesterday i try to make one test with the software. The configuration is a 486dx2 66mhz, and a dsp2232 from aea, with a FT736r radio. This is my satellite rig. I put another tnc (a little kantronics) with a walkie talkie and a terminal. I program the beacon of the kan tnc with the following message !1968.00N/09933.00y HOLA XE1YAW.

In the line 25 of the APRS screen i recieve No>p1 XE1YAW*>BEACON:....
I read in your manual that No> means that the software don't find the >to field. But i don't know why. Then i send with the aprs a POSIT packet i recieve in the Kantronics TNC, the i just change the Latitud and longitude fields and send back to the aprs software in unproto converse mode with the APRS destination address with the same result. I know that i am doing something wrong but i don't know what. Could you help me please.
Thank You in Advance
Best Regards
Aitor

527. APRS FOR Skywarn, etc

From: jeff.brenton@espi.com
Date: Fri, 26 May 95 13:58:26 -0500
To: aprssig@tapr.org
Message-ID: <9505261358.0JMPN00@espi.com>
Rendered body type: text/plain

Bill Nolle wrote about the "pollution" of the local APRS net on '79 with a lot of HF traffic; have you tried putting "GATE" in the SUPLIST of the digipeater, so that it won't digipeat anything from the gateways?

* UniQWK v3.3a*

528. Re: What about unwanted users?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 15:08:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526145603.28710H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 26 May 1995, Larry Keeran wrote:

>> APR WROTE: Write or call MFJ. I encouraged them to start stocking
>> 145.79 and they (the boss) agreed that they would, if the demand was high
>> enough. SO THEY WILL DO IT IF ENOUGH OF US ASK THEM TO! ...
>
> My concerns:
>
> Too many appliance operators will use the 145.79 as their packet frequency.
> Yes, it is nice (factory 145.79 xtals) for us APRS members and emergency
> service purposes but the projected affect nationwide of it becoming a
> general packet frequency...>

APR REPLY: I AGREE! We do NOT want MFJ to have .79 as the default, but only as a lower priced STANDARD option. Be sure you folks make all your cards and letters indicate that.....

HUMMH.... but the problem will still be there wont it???? Once MFJ makes 145.01 and 145.79 XTAL options, then HALF of the appliance operators and ego-BBS's and DXclusters will show up on .79! Yuk... Maybe the extra \$24 will be worth it. OR, maybe we could talk TAPR or someone with DEEP pockets to BULK purchase the XTALS and thereby get the quantity discount but wihtout encouraging idiots to use .79...

But not me. See Gywns comments on how much it takes to stuff envelopes! Even it the xtals were free, I would probably want \$24 just to handle the mail....., hi hi. Any one else got any ideas?

529. Re: [APRSSIG:1452] Help with Mapfix and CD-Rom

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 14:39:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526142859.28710F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 25 May 1995 wnolle@fly.HiWAAY.net wrote:

> Following the documentation by Ken Swaggart W7KKE i used CONV100.BAS.
> All that went well. Then i went to the MAPFIX.BAS program
> to attempt to import the files. Well first question is how can i
> import these files without first having a map to import them into.

APR REPLY: I always use somwthing like USA.map or something else closer to my area. Once you do the alt-U, the map you initally have on the screen just to get your bearings, is ignored.

> Second question when doing the ALT-U it asked me to enter the following

> ENTER PATH AND S?? TO USGS FILE.
> Well i don't know what the S?? stands for, in my case the path is
> D:\MAPS this is the directory i have everything in ...

APR REPLY: The S?? prompt is reminding you to include all of the filename including the PATH up to the last two characters in the filename. For example for a file named ABCxyzRD.GRF you would respond to the prompt with D:\MAPS\ABCxyz and then MAPFIX would add the RD.GRF on the end. The reason for the S?? is because the original 2,000,000 XTRACT program ALWAYS named files in a format Sxx_RD.GRF. I was just making it less to type. Now I suppose it is time to change that prompt to ask you to enter the complete file name since with CONV100 it can be anything...

Thanks for the reminder to change that...

530. Re: [APRSSIG:1393] Magellan Accessories

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 13:19:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526131801.26887Y-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 23 May 1995 RonN9QGS@aol.com wrote:

> I just about gave up trying to build my own cable for my Meridian, I cannot
> locate anything close to the connector used for the NMEA output, checked at

APR REPLY: Take a hammer. Smash a 7 or 9 pin tube socket. Use two of the pins and put heat-shrink over them. Slide them on the two pins on the back of the GPS that will give you NEMA data.

531. Re: [APRSSIG:1434] Re: GPS set-up

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 26 May 1995 14:05:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526140334.28710C@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 24 May 1995, Larry Griffin AB5GE wrote:

> Wow! All along I've been including a checksum after my NMEA messages!
> After re-examination of the manual I see that the checksum is OPTIONAL.
> Guess it pays to read the fine print!
> Thanks Gerry! That made my day. (That, plus the fact that my Internet

APR QUERY: Hummh... does this mean that newer (or older) Motorolas do not need the check sum? I wrote MOTOROLA.bas cuz I was told they DID require the checksum.... Gerry, wehn you get a chance, fill us in....

532. Re: [APRSSIG:614] APRS - Delorme Rockwell GPS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 26 May 95 16:38:15 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.801520695.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

I was going back thru my mail and found your message, I don't know if I responded or not, so I am going to 'again',

Yes, I have written code for the Rockwell GPS, it is not straight forward, but it is not to difficult either, espically if you know 'C', there are 'C' libraries available for it.. I wrote the Mac library, and I also have the PC library..

These libraries are available, and I could give them to you, but Bob is not going to implement it into his code. If you were into doing something like the 'BASIC STAMP' computer, you could easily write code to take Rockwell in and output NMEA.. I have already done this within MacAPRS..

If you have any other questions, just ask..

Keith

Keith Sproul
Student Housing Network Coordinator
Rutgers University Computing Services
<http://www-ns.rutgers.edu/~ksproul/>

Ham Radio: WU2Z
ksproul@noc.rutgers.edu
908 445-3695 Work
908 821-4828 Home

533. Re: [APRSSIG:1488] Re: Magellan Accessories

From: Jay Jeffries <a028171t@bcfreenet.seflin.lib.fl.us>
Date: Fri, 26 May 1995 16:52:42 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9505261608.A3647-0100000@bcfreenet>
Rendered body type: text/plain

I like this elegant solution. It reminds me of when I was in the submarine service, the Navy told use that we would always have the right tools for the job. In reality we had to get a larger Crescent hammer. Always,
Jay

Jay Jeffries
a028171t@bcfreenet.seflin.lib.fl.us

On Fri, 26 May 1995, Robert Bruninga wrote:

>
> On Tue, 23 May 1995 RonN9QGS@aol.com wrote:
>
> > I just about gave up trying to build my own cable for my Meridian, I cannot
> > locate anything close to the connector used for the NMEA output, checked at
>
> APR REPLY: Take a hammer. Smash a 7 or 9 pin tube socket. Use two of
> the pins and put heat-shrink over them. Slide them on the two pins on
> the back of the GPS that will give you NEMA data.
>
>

534. Re: [APRSSIG:1470] Re: APRS for Skywarn,Races,Ares

From: Richard Amirault <amirault@max.tiac.net>
Date: Fri, 26 May 1995 17:43:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.NEB.3.91.950526173515.2549A-100000@max.tiac.net>
Rendered body type: text/plain

On Fri, 26 May 1995, Kent Larson wrote:

>
> Maybe a request to Bob to provide an HF filter that would ignore the
> GATEd packets would be a practical approach.
>
A filter would not stop the frequency from being used to transmit those HF packets on VHF. It would only stop you from seeing them from within APRS.
>
> On Fri, 26 May 1995 wnoille@fly.hiwaay.net wrote:
>
(snip)
> > Why would an HF station beacon onto VHF anyway when they can communicate
> > much better just on the HF band?.
(snip)
> > attempting such a demo for it would be a flop if there was a band condition
> > allowing HF station to show on the VHF frequency.

HF stations don't beacon on to VHF, and there are no band conditions that allow HF to show on VHF frequencies. The only way HF shows up on VHF is thru a GATE station. One who has both HF and VHF and RE-TRANSMITS the HF beacons onto VHF.

Maybe you should talk to the local GATE stations in your area.

73 Richard N1JDU in Boston

NOTICE: Easter Massachusetts is moving APRS from 145.77 to 145.79 as of 6/1/95

amirault@tiac.net

535. Re: [APRSSIG:1486] Re: What about unwanted users?

From: rwf@mindspring.com (Ralph Fowler, N4NEQ)
Date: Fri, 26 May 1995 18:30:38 -0500
To: aprssig@tapr.org
Message-ID: <199505262225.SAA29862@dylan.mindspring.com>
Rendered body type: text/plain

>
>On Fri, 26 May 1995, Larry Keeran wrote:

>
>>> APR WROTE: Write or call MFJ. I encouraged them to start stocking
>>> 145.79 and they (the boss) agreed that they would, if the demand was high
>>> enough. SO THEY WILL DO IT IF ENOUGH OF US ASK THEM TO! ...
>>
>> My concerns:
>>
>> Too many appliance operators will use the 145.79 as their packet frequency.
>> Yes, it is nice (factory 145.79 xtals) for us APRS members and emergency
>> service purposes but the projected affect nationwide of it becoming a
>> general packet frequency...>
>
>APR REPLY: I AGREE! We do NOT want MFJ to have .79 as the default, but
>only as a lower priced STANDARD option. Be sure you folks make all your
>cards and letters indicate that.....
>
>HUMMH... but the problem will still be there wont it???? Once MFJ makes
>145.01 and 145.79 XTAL options, then HALF of the appliance operators and
>ego-BBS's and DXclusters will show up on .79! Yuk... Maybe the extra
>\$24 will be worth it. OR, maybe we could talk TAPR or someone with
>DEEP pockets to BULK purchase the XTALS and thereby get the quantity
>discount but wihtout encouraging idiots to use .79...
>
>But not me. See Gywns comments on how much it takes to stuff envelopes!
>Even it the xtals were free, I would probably want \$24 just to handle the
>mail....., hi hi. Any one else got any ideas?
>

Crystal certificates look better and better (or NO std crystals)- but I like
Bob's idea best

536. Re: [APRSSIG:1489] Re: GPS set-up

From: rfw@mindspring.com (Ralph Fowler, N4NEQ)
Date: Fri, 26 May 1995 18:34:04 -0500
To: aprssig@tapr.org
Message-ID: <199505262228.SAA00448@dylan.mindspring.com>
Rendered body type: text/plain

>APR QUERY: Hummh... does this mean that newer (or older) Motorolas do
>not need the check sum? I wrote MOTOROLA.bas cuz I was told they DID
>require the checksum.... Gerry, wehn you get a chance, fill us in....
>
>

Bob- Please don't mess with Motorola.bas!!! It does a good job as is. It
works on Version 2.1 and 6.0 Motorolas, I have one of each. The bug with
the input buffer just lets us know that the GPS is outputting data. If I
want to see that data, I use Procomm anyway.

537. MFJ crystals

From: George.Henry@f668.n115.z1.fidonet.org (George Henry)
Date: 26 May 95 16:35:27 -0600
To: aprssig@tapr.org
Message-ID: <554_9505261730@chigate.fidonet.org>
Rendered body type: text/plain

f-10.7

3

for RX crystals? Looks like a standard scanner
crystal to me..... hello, \$4.98 at Radio Shack!!!

73 de KA3HSW

538. Re: [APRSSIG:1467] APRS for Skywarn,Races,Ares

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Fri, 26 May 1995 20:06:28 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950526195604.8974A-100000@pinegov>
Rendered body type: text/plain

On Fri, 26 May 1995 wnolle@fly.HiWAAY.net wrote:

> Our plans have been to mainly use APRS for heavy weather in conjunction
> with the local Red Cross and the ham community. Well after nearly two
> years we have finally got the system in motion and several weather
> stations have been placed. We finally installed a Digi on top of one of
> the local mountains and figured we would be in great shape for the next
> severe weather condition. Well folks guess again. After we installed the
> digi and started seeing other digi's we also started seeing a lot of HF
> stations from all over the country and Canada!. At any given time i had
> 4 screens full (47 stations showing)on my map. After several
> days of this i decided to do some testing if this would hamper the idea
> of using APRS for this type of function. I started sending messages at
> different times with or without the HF traffic present!. I can tell you
> right now forget using APRS for Skywarn,Races or Ares unless you have a
> dedicated frequency just for an operation like that. We have 145.790 as
> the coordinated frequency in this area, but looking at this right now
> i would say this frequency will never fly for this purpose. I asked
> several HF APRS users if VHF users can also beacon to HF, Well the answer
> i got rather made me want to turn off my computer,TNC and radio and forget
> the whole thing. One person told me that at Bob's request not to beacon
> VHF station onto HF because it would clutter up the HF map to much. Well
> friends that's what is happening on VHF. I don't understand this anyway.
> Why would an HF station beacon onto VHF anyway when they can communicate
> much better just on the HF band?. I am not trying to knock APRS or Bob
> or any of it's users, i have been using APRS from it's inception but
> as things are don't waste your or the other peoples money attempting to
> use APRS for community service on 145.790Mhz. We had a demo at the
> Birmingham hamfest and there where several poeple there from the NWS and
> they sounded very optomistic about a community using a system like APRS.
> Well this was during a time of day when no HF stations were present. We
> again had planned to have a BIG demo at the local Huntsville,AL hamfest
> in August, well as it stands right now i would totally disagree with
> attempting such a demo for it would be a flop if there was a band condition
> allowing HF station to show on the VHF frequency. We have regular meetings
> once a month and our first topic of course will be this question
> (Should we abandone this idea).

>
> ---====<< Bill >>====--
>

>
>
>
>
Whoa, Bill, slow down.....take a deep breath, here are a couple of facts
which should help....

#1. HF stations can only appear on VHF station maps if there is a KAM
GATEway operating within VHF range....in an actual emergency, ask the
control operator to discontinue HF relays during the emergency period.

#2. The HF to VHF relay system exists primarily to allow mobiles to use
VHF transmissions to be relayed throughout the HF nationwide system.
You, however, have an amateur radio license... if you are General Class
or above, you have the privledge granted to you to set up your own HF
station, no one can tell you that you can't.

#3. But, yes, the control operator of the HF Gate can tell you not to
digi through him, (and he can prevent it with the BudList if he wants
to), but nothing in the system prevents you from temporarily using the HF
Gate to communicate.

#4. In an actual emergency, the HF GATEway provides an alternate method
to pass traffic out of the local area, and, in fact, enhances communications.

#5. You can also prevent the reception of HF to VHF beacons by changing
the name of your wide area digi from the GENERIC WIDE to some other
term. Typical HF Beacons are sent GATE,WIDE or GATE,WIDE,WIDE...they
will only digi through the generic ALIAS....

Just a few suggestions....many of us are very successfully using APRS for
Skywarn and ARES applications.....I myself run the GATE here and RACES
owns the WIDE.....

Good Luck, if you need any more suggestions...let me know

de Kevin Heyboer KD4UYR
Asst Emergency Coordinator
Pinellas County A.R.E.S.
Skywarn Director
Pinellas Skywarn

...etc etc

539. Crystals for MFJ-8621

From: Dave Creek <dcreek@pixi.com>
Date: Fri, 26 May 1995 15:07:19 -1000 (HST)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.91.950526150021.2471A-100000@dip004.pixi.com>
Rendered body type: text/plain

Reference APRSSIG:1493

I called ICM on OK City and checked the price of the crystal set referenced in APRSSIG:1454. The crystal pair is \$23.90 + shipping, but they have a \$35.00 minimum. I tried JAN crystals, but they take fridays off.

Dave Creek, NH6BA
Ewa Beach, HI

540. cool gps stuff

From: jgarrett@world.std.com (John Garrett)
Date: Fri, 26 May 1995 22:15:30 -0400
To: aprssig@tapr.org
Message-ID: <2jenlmpA4-aQ065yn@World.std.com>
Rendered body type: text/plain

I have uploaded to ftp.tapr.org [/tapr/SIG/aprssig/upload] an Xray view of the Garmin gps45 antenna, which I received as email from N1PHP.

Also, there are some interesting files regarding DGPS and a generic DOS Garmin up/download freeware program located at ftp.ronin.com in the /navigation directory.

Anybody finding any patch antenna specs (Steve, you listening?) out there? We have access to decent test equipment to do final tune-up.

Have a dandy weekend.
73
John
WN9T

541. Ver 6.7/6.8 Lockup

From: JohnL4598@aol.com
Date: Fri, 26 May 1995 22:47:44 -0400
To: aprssig@tapr.org
Message-ID: <950526224743_13703651@aol.com>
Rendered body type: text/plain

Hi,
This may have been answered before, but has anyone had the problem of APRS locking up after its been on awhile. N9SLD has a U II and his quits xmitting once and a while, and mine (v 6.8E) quits entirely, even won't accept k/b input. We both have LOG on. Haven't tried it off. Thot I'd see if anyone else has that problem.

Thanks Barry
n9vjq
n9vjq@aol.com

542. Ver 6.7/6.8 Lockup

From: N9VJQ@aol.com
Date: Fri, 26 May 1995 23:01:00 -0400
To: aprssig@tapr.org
Message-ID: <950526230058_14191736@aol.com>
Rendered body type: text/plain

Hi,
This may have been answered before, but has anyone had the problem of APRS locking up after its been on awhile. N9SLD has a U II and his quits xmitting once and a while, and mine (v 6.8E) quits entirely, even won't accept k/b input. We both have LOG on. Haven't tried it off. Thot I'd see if anyone else has that problem.

Thanks Barry
n9vjq
n9vjq@aol.com

543. Secret Garmin Goodies

From: Tim Smith <TSMITH@fibusa.com>
Date: Fri, 26 May 95 23:45:00 PDT
To: APRS Sig <aprssig@tapr.org>

Message-ID: <2FC6C361@ipnovell.fibusa.com>
Rendered body type: text/plain

Hi all:

I picked this up from sci.geo.satellite-nav:

try this: Turn you GPS off, hold the <ENTER> button while you turn on the GPS again. I'll then get a window of moving rectangles. Press <ENTER> again and you'll find something interesting. The displayed screen show the keys which will be marked if you press it, but it also show:

SIGNAL	2387
DRIFT	-21.462
FREQ	16368351
TEMP	21
BATTERY	506
TIME	23:33:57

Yes, you GPS really seems to be able to messure the temperature. I put my receiver outside and it show 12 after 15 minutes. In the room it shows around 22. Seems to be all in Celsius.

Anybody know how to get the temperature without entering the test-mode? Any chance to get it via the Garmin protocoll?

You could turn off the GPS which seems to be the only way to exit the test-mode.

Another funny feature: Switch to the map screen and turn off the GPS. If you release the button before it counts to zero the GPS won't shutdown, but the world still turnes on the screen as long as you don't use <PAGE> or <QUIT> to change the screen.

73,

Tim N1BTQ@KC1UA.MA
tsmith@fibusa.com
Mattapoissett, MA

544. Re: [APRSSIG:1489] Re: GPS set-up

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 26 May 1995 23:32:25 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505270432.XAA08643@solar.cs.tamu.edu>
Rendered body type: text/plain

Robert Bruninga sez:

>
> APR QUERY: Hummh... does this mean that newer (or older) Motorolas do
> not need the check sum? I wrote MOTOROLA.bas cuz I was told they DID
> require the checksum.... Gerry, wehn you get a chance, fill us in....

The Motorola documentation specifically says (and so does the NMEA documentation!) that the checksum is OPTIONAL. So, it doesn't need to be there. It is provided for data integrity.

TTFn, gerry

545. Re: [APRSSIG:1496] Re: APRS for Skywarn,Races,Ares

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 26 May 1995 23:54:38 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505270454.XAA08799@solar.cs.tamu.edu>
Rendered body type: text/plain

I'm sorry, but a reality check is in order. While Bill' pretty shrill here, he makes some points.

But I'm ignoring those for a while.

Kevin Heyboer sez:

>
After quoting EVERYTHING Bill said (Note: Bad net practice, but pretty common here. It's been driving me nuts for a while, though!

> Whoa, Bill, slow down.....take a deep breath, here are a couple of facts
> which should help....

Good advice.

- > #1. HF stations can only appear on VHF station maps if there is a KAM
- > GATEway operating within VHF range....in an actual emergency, ask the
- > control operator to discontinue HF relays during the emergency period.
- >
- > #2. The HF to VHF relay system exists primarily to allow mobiles to use
- > VHF transmissions to be relayed throughout the HF nationwide system.
- > You, however, have an amateur radio license... if you are General Class
- > or above, you have the privledge granted to you to set up your own HF
- > station, no one can tell you that you can't.

If the local area cannot cooperate on activities, the system will falter.

- > #3. But, yes, the control operator of the HF Gate can tell you not to
- > digi through him, (and he can prevent it with the BudList if he wants
- > to), but nothing in the system prevents you from temporarily using the HF
- > Gate to communicate.

Except that the HF nets, at least in my area, are smooth gonna miss the areas of the state I'm interested in. Not digi'ing through the GATE is probably good. You're not interested in getting Skywarn info out to the world, but informing your local net.

- > #4. In an actual emergency, the HF GATEway provides an alternate method
- > to pass traffic out of the local area, and, in fact, enhances communications.

Great theory. Bad practice. Period. You're entitled to your opinion, but the confusion on HF, especially without a coordinated effort "elsewhere" means you're giving the world the Skywarn info, which may be interesting, but is not doing you much good.

- > #5. You can also prevent the reception of HF to VHF beacons by changing
- > the name of your wide area digi from the GENERIC WIDE to some other
- > term. Typical HF Beacons are sent GATE,WIDE or GATE,WIDE,WIDE...they
- > will only digi through the generic ALIAS....

Again, the bandwidth is the issue. The more junk digi'ing through the area, the less bandwidth available for the Skywarn net.

- > Just a few suggestions....many of us are very successfully using APRS for
- > Skywarn and ARES applications.....I myself run the GATE here and RACES
- > owns the WIDE.....

Great. As the unofficial pessimist for this group, with a few years of nets and emergency activities behind me, I look skeptically at "great, new" ideas. My personal recommendations include a separate frequency for APRS activities, isolated to the local area and sending, especially, the locations of the spotters. I operate under the concept that the spotters are to be busy spotting and should not need to report their movements when it can be done automatically. Further, the spotters shouldn't have to pound the keyboard (standalone trackers instead) since they should be spotting, lest the funnel descend upon them while they're trying to relocate the cloud on the net. And FURTHER, I think the digital net should be separate from the voice net. Say, on UHF and not widely published. It, like the standard RACES operations, should be operated as a directed net without a lot of extraneous stations intervening.

I'm sorry, but Bill raised valid points and most of this group spent their time attacking his style.

Gerry

546. '95 DCC Proceedings Deadline

From: Greg Jones <gjones@tenet.edu>
Date: Fri, 26 May 1995 23:59:41 -0500 (CDT)
To: tapr-bb@tapr.org (TAPR-BB mailing), bbssig@tapr.org (BBS SIG mailing),
netsig@tapr.org (NETSIG mailing), aprssig@tapr.org (APRS SIG),
dsp-93@tapr.org (DSP-93 Build)
Message-ID: <199505270459.XAA24090@Alice-Thurman.tenet.edu>
Rendered body type: text/plain

1995 ARRL Digital Communications Conference
Proceedings Deadline Information

Anyone interested in digital communications is invited to submit a paper for publication in the 1995 Conference Proceedings. Presentation at the Conference is not required for publication. If you know of someone who is

doing great things with digital communications, be sure to personally tell them about this! Papers are due by July 21, 1995, and should be submitted to Maty Weinberg, ARRL, 225 Main Street, Newington, CT 06111 or via the Internet to mweinberg@arrl.org. Please contact Maty for detailed format requirements.

Deadline: July 21, 1995 (Friday)

Start writing those papers now!

This is your opportunity to let others know what you have been doing.

547. Re: [APRSSIG:1498] cool gps stuff

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 27 May 1995 00:00:00 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505270500.AAA08842@solar.cs.tamu.edu>
Rendered body type: text/plain

In looking to get ideas for "Cows In Space" antennas I got a couple of antenna xrays on the Garmin GPS55 AVD antenna. It's a quadrifilar helix with a matching array at the base. After looking at it for a while, I contacted M/A Com and got info on their passive (the VP OnCore I'm using has an LNA preamp onboard and uses a passive) and active lines. For \$36 (passive, small quantity) and \$52 (active) it was hard to justify the effort of building and tuning something up.

Gerry

548. MFJ DATA RADIO

From: jeff.brenton@espi.com
Date: Sat, 27 May 95 00:40:14 -0500
To: aprssig@tapr.org
Message-ID: <9505270040.00XXD00@espi.com>
Rendered body type: text/plain

Bob "I'm so sunburned" Bruninga commented on my comments about MFJ stocking 145.79 crystals... They do, and will ship right away, but they don't (it seems) plan to ship radios with them installed, except for custom orders. I've put in an order for 2 so far, to be shipped with .79 installed; how soon I get them is the question!

□ KWQ/2 1.2a □

549. Re: [APRSSIG:1481] Re: APRS & PK-12

From: SDRoe@aol.com
Date: Sat, 27 May 1995 04:52:33 -0400
To: aprssig@tapr.org
Message-ID: <950527045229_14284333@aol.com>
Rendered body type: text/plain

Maybe the BBSMSGs on command is what is making my TNC reset every once in awhile. Ken from AEA is sending me a new ROM chip for the PK-12 that he thought would fix the problem but I just we will still have to go back to the drawing board.

Thanks for the info...

73

Sam Roe KB7QQQ

550. Re: [APRSSIG:1492] Re: APRS for Skywarn,Races,Ares

From: Kent Larson <klaron@access.digex.net>
Date: Sat, 27 May 1995 05:51:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950527054629.15128A-100000@access2.digex.net>
Rendered body type: text/plain

On Fri, 26 May 1995, Richard Amirault wrote:

> On Fri, 26 May 1995, Kent Larson wrote:
> >
> > Maybe a request to Bob to provide an HF filter that would ignore the
> > GATED packets would be a practical approach.
> >
> A filter would not stop the frequency from being used to transmit those
> HF packets on VHF. It would only stop you from seeing them from within APRS.

I thought his complaint was the map was too crowded. I deleted the

original message so I can't check. If the problem is a crowded frequency then eliminating the gateway is about the only solution. My mixup I guess.

73, Kent

551. Re: [APRSSIG:1474] Re: APRS in Europe

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)
Date: Sat, 27 May 95 12:32:37 MET DST
To: aprssig@tapr.org
Message-ID: <9505271032.AA09040@sunrise.e-technik.uni-ulm.de>
Rendered body type: text/plain

Hello Bob,
yes, I have a better map for Europe and Germany which I can upload. Where do you want it, on internet?
Best regards,
Hermann

--
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de
Dept. of Electron Devices and Circuits |
University of Ulm, | office: +49 731 502-6152
D-89069 Ulm, Germany | FAX: +49 731 502-6155

Help fight leukemia - we're closing in on a killer!

552. Re: [APRSSIG:1503] Re: APRS for Skywarn,Races,Ares

From: Kevin Heyboer <kheyboer@pinegov.co.pineallas.fl.us>
Date: Sat, 27 May 1995 07:27:27 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950527072133.9711B-100000@pinegov>
Rendered body type: text/plain

Re: Bill's first message and Gerald's reply....see I don't always repeat the thread....

Gerald, you do make a good point I missed about selecting your own frequency for special events/emergency events....If APRS is so popular or so cluttered in your area on the "standard" frequencies that it is unusable for an emergency event....preselect another unused packet or experimental simplex frequency from the band plan and use it.

Here in the Tampa Bay area, prior to APRS, all emergency packet activity was on the primary BBS channel in Tampa....That was a mess but was necessary because the permanent digipeaters were already in place...

When APRS came along, the permanent digis were moved to 5.79....but perhaps we are fortunate, the vast majority of APRS users here are ARES/RACES affiliated...those that aren't support our use of the system during weather events and appreciate the ability to monitor the activity....

PS: APRS is used as a visual reference/backup for Skywarn here...it is not the primary frequency....Primary traffic is handled in the typical directed voice net fashion with the support of the local hams and repeater associations....

73 de Kevin KD4UYR

553. Re: [APRSSIG:1506] MFJ DATA RADIO

From: rwf@mindspring.com (Ralph Fowler, N4NEQ)
Date: Sat, 27 May 1995 07:35:27 -0500
To: aprssig@tapr.org
Message-ID: <199505271130.HAA14410@dylan.mindspring.com>
Rendered body type: text/plain

>
>Bob "I'm so sunburned" Bruninga commented on my comments about MFJ
>stocking 145.79 crystals... They do, and will ship right away,

So the question still remains- is the radio 25.00 or so MORE with the "useful 145.79" (to some) xtals then, or do they let us have a credit for the "useless 145.01" (to many folks) .

I think they should substitute the xtals gratis. The radio will probably not need serious tuning to move from .01 to .79 .

Ralph Fowler, N4NEQ Atlanta, GA USA
rwf@mindspring.com
<http://www.mindspring.com/~rwf> for ATV and Ham info

554. Re: Disturbing Answer

From: AA8JK@aol.com
Date: Sat, 27 May 1995 08:10:41 -0400
To: aprssig@tapr.org
Message-ID: <950527081035_13843057@aol.com>
Rendered body type: text/plain

In a message dated 95-05-22 13:39:23 EDT, you write:

>In a message dated 95-05-22 01:36:39 EDT, KE4EER wrote:
>
>>While runing our local APRS there was a station WA4KBD which
>>is running a HF gate, I asked him of there was any objection to
>>us beaoning our position through his gate to HF. I was rather
>>upset with his answer in that he told me that Bob Bruninga made
>>a statement that it would clutter up the HF map to much. Well
>>first i would like to find out if in fact this statement was
>>actually made.
>
>Check HF.TXT
>
>> Because if this is the case then it's only fair
>>that this works both ways. I started my computer this morning
>>and had 3 screens full of APRS users, this makes about 48. Of
>>course most of those where HF stations, Now we never complained
>>about the HF stations cluttering up our map. What good is it to
>>us VHF users to see the HF stations interfearing with our
>>operation if it's just to show us that they are there?.
>
>Set your TNC so you do not see via "GATE"
>
>At 1200 baud, it would take a large amount of 300 baud HF
>traffic to give you trouble on VHF.
>
>> I can already see the problem trying to sell
>> Skywarn on this idea wich
>>by the way is what we are trying to do (Use APRS for heavy weather
>>conditions like all the tornados we just had here in North Alabama
>>and Tennessee). I can't realy believe this statement was made.
>
>Why can't APRS Skywarn and APRS HF nets
>work in your area? They work everywhere else.
>
>I would welcome WX reports from stations on HF.
>I would find these reports from outside my area a
>great resource, as a VHF APRS SKYWARN net
>has it's limits.
>
>
>> If so i for one am going to give up APRS even though i have been
>>working hard to get it organized here, and we are finally making
>>headway. I have been using APRS since it's inception and have
>>several stations setup of wich one is a WX station and another is
>>a wide area digi that carry's my call.
>
>If you have been a user of APRS since the start, you
>have seen many changes in the program. What changes
>have you made? APRS, packet and ham radio in general
>are made up of many different ideas and opinions. Have
>you put yourself in the other guy's shoes? What if his idea
>of an APRS net in your area is to keep up-to-date with his
>friend who is in a RV going across the USA. Another user
>that has different ideas other than your's may feel YOU are
>the problem! How many packets do your two stations put
>out in an hour?
>
>
>> I don't mind telling you
>>that this realy has me upset. To have Wide area HF digi's springing
>>up in our area that are useless to us is just not going to cut it.
>
>

```
>>-----<< Bill KE4EER >>>-----
>
>Most folks would not flame a new user just because
>he is following the ideas found in the doc files of APRS.
>What guide did you use when you started in APRS?
>
>Many of the people on this APRS SIG have gone
>through the same problems you have gone through,
>or will face in the future of your area's APRS network.
>As ham's, our whole hobby is built on communication.
>Why don't you set up an APRS user group in your area.
>If there was an outlet for problems and future plans, there
>could be some order in your area. Many people in your area
>may not have any idea what type of APRS station is needed
>in your area.
>
>Without some help and education from APRS elmers, many
>new APRS'ers give up on APRS. What can YOU do to better
>educate the APRS'ers in your area? How many club meetings
>have you done an APRS demo? Have you done demo's for
>clubs, other than your own? Did you make it to Dayton for the APRS
>forums, TAPR dinner or the APRS EYEBALL so you could be a
>better, more educated user?
>
>We on the APRS SIG would like to be a help with APRS users.
>More and more, I see people on the SIG with problems, that
>in most part, are local communication related problems. Bill, I
>feel you just need to work on getting an APRS group together
>in your area. There are very few hams that can build an APRS
>network without the help of others.
>
>With a positive role model in your area, you can work towards
>an APRS network that fits the needs of all users.
>
>
>73,
>
>
>Steve Caesar AA8JK/VK4SID
>Tri-State APRS Working Group
>
>AA8JK@AOL.COM
>

As someone said they did not get this the first time, I thought it would be
nice to post it one more time.
```

555. Re: [APRSSIG:1510] Re: APRS for Skywarn,Races,Ares

```
From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Sat, 27 May 1995 09:38:22 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199505271438.JAA11130@solar.cs.tamu.edu>
Rendered body type: text/plain

Kevin Heyboer sez:
>
>
> PS: APRS is used as a visual reference/backup for Skywarn here...it is
> not the primary frequency....Primary traffic is handled in the typical
> directed voice net fashion with the support of the local hams and
> repeater associations....

I see the real utility in letting the remote/mobile spotters SPOT, and not
have to figure out a range and bearing or grid square to tell NCS. NCS or an
assistant can add storm symbols for those guys based on the voice reports.
I'm concerned that there's going to be an influx of APRS-Skywarn applications
where we send folks out to the boondocks and tell 'em to make the DF entries,
send reports digitally, etc. I consider that less than optimal. I'm glad I
was wrong here.

73, gerry
--
Gerry Creager N5JXS * SAREX Co-Investigator
gergy@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile
*****
```

556. Total Message

From: wnoille@hiwaay.net
Date: Sat, 27 May 95 11:04:41 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950527112955.wnoille@wnoille.HiWAAY.net>
Rendered body type: text/plain

I wanted to set the record straight, first of all i want to thank those that send me messages to help to solve the problem. Then of course i received several messages from users that did not read the whole message. In fact some of those messages were just nasty. Those people did not read my message. I have no problem with the HF users showing on our VHF maps, but rather all the TRAFFIC THAT COMES WITH IT.

Then there were those telling me to move to another frequency, well friends i have worked hard and have taken much time to coordinate 145.790 in this area. In fact i have the only coordinated digi in this area (Others are saying the heck with coordinating an APRS digi). So friends why should i move??.

And yes we do have regular APRS meetings once a month, but of course not everyone can attend these for the simple reason of distance. But i am starting to write an APRS Newsletter with the hope that we can work together in that form. I am retired and dedicate a lot of time to making APRS work in this area to let it all go to waste due to one person GATEing all that HF traffic to VHF.

Then there were those that told me i must not know how to run APRS. Well i have never been too much interested in seeing HF users on the map, therefore i have never been interested in how gates or crossband digipeating works.

In any case i again want to thank those that are actually helping to solve this problem for us.

P.S: It may very well have already been solved. the user creating all this must be reading the APRSSIG also because i have not seen all the HF traffic in the last couple of days Hi.

-----<< Bill >>-----

557. More maps on the Internet?

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sat, 27 May 1995 14:15:20 -0400 (EDT)
To: aprssig@tapr.org
Cc: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.950527140835.1327F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

FORWARDED MESSAGE

From: DKAPLAN@netins.net (David Kaplan)

Bob, I deleted the messages I sent to you but the Internet Address is:
<http://sun1.cr.usgs.gov/>
They have all the 1:2,000,000 and 1:100,000 maps of state boundaries, transportation, hydro features etc...FREE for the downloading in both the STD and Option format. I don't know enough about the map making process but from what I have read in the documentation---THIS IS WHAT PEOPLE ARE BUYING FROM THE USGS AND IT THERE FOR FREE!

APR COMMENT: For mapmakers, remember to get the GRAPHIC format if you are getting 1:2,000,000 data and to get OPTIONAL format if you are going to attempt to use 1:100,000 data.. Also, be sure it is delimited.

WOULD SOMEONE WHO WORKS WITH MAPFIX and CONV100 routinely using maps downloaded off the internet, Please consider writing a INETmaps.txt file and send it to me. We need a standard gouge sheet to tell folks how to do it.

558. (no subject)

From: techman@ace.com (Techman)
Date: Sat, 27 May 95 15:49:32 EST
To: aprssig@tapr.org
Message-ID: <9505271549.0.UUL1.3#25274@ace.com>
Rendered body type: text/plain

SUBSCRIBE

559. Garmin 45, Great Buy

From: RonN9QGS@aol.com
Date: Mon, 29 May 1995 22:51:31 -0400
To: APRSSIG@tapr.org

Message-ID: <950529225129_16782661@aol.com>
Rendered body type: text/plain

Hi Everyone!

I am sending back my meridian, and today picked up a Garmin 45, Talk about nice, I love the Garmin, for many reason! Gives your positions down to tenth of seconds, (Meridian doesn't), The speed over ground is quicker update then the Meridian, More information on the screen, easier to see what direction your going with the moving compass reading, versus the Meridian half compass, more waypoints, more everything, tells your battery power. Satellite information, signal strength and where there located relative to where you are. Just so much, I think the only disadvantages the Meridian may have is Altitude data and SOG over 90 kts. I found the Garmin, easy to wire up vs the Meridian for some reason, less involved. BUT THIS DOES BRING ME TO MY NEXT QUESTION>

What are the NMEA sentences about, I know I can decode these:

GPGLL
GPRMB
GPRMC
GPRTE
GPWPL
GPBWC
GPXTE
GPRSV
GRGSV

I was wondering what some if these have (information wise?)

I know GLL is just latitude and longitude
anf VTG gives Heading in Madnetic and True, and Speed Nauticle and Kts. (I WISH Statuate)

I was wondering which of the above does APRS recongnize? Help eliminating some of the choices, I believe one does both Lat/Logit, Heading, and Speed?

I think that is best suited... DOES APRS show Speed and course in the Position screen? If so what is it, MPH, Kts, Kph?

Ron

Just need another TNC so I can see me on the APRS screen.
Coming in about a week!

560. E & B Marine

From: Tim Smith <TSMITH@fibusa.com>
Date: Sun, 28 May 95 22:08:00 PDT
To: APRS Sig <aprssig@tapr.org>
Message-ID: <2FC950A9@ipnovell.fibusa.com>
Rendered body type: text/plain

Sorry for the delay...E&B Marine is 1-800-BOATING. Call them up for a quote or catalog...probably best over-the-counter prices (with support) on the market I've seen. They also stock accessories for Garmin, Magellan and others.

73,

Tim N1BTQ
tsmith@fibusa.com
Mattapoissett, MA

561. New WX Symbols for APRS

From: Jeff Ward <jeff@huey.met.fsu.edu>
Date: Sun, 28 May 95 17:42:20 EDT
To: aprssig@tapr.org
Message-ID: <9505282142.AA27389@huey.met.fsu.edu>
Rendered body type: text/plain

Hello All:

I've asked Bob to consider adding weather symbols that are used by the National Weather Service. My list of symbols includes one for:

- hurricanes
- thunderstorms
- severe thunderstorms
- funnels or tornadoes
- rain
- snow
- drizzle
- rain shower (there is a distinction between rain and a rain shower)
- snow shower (ditto)
- ice pellets (sleet)
- fog

lightning visible (thunder not heard)
haze
smoke
Sand or dust raised by wind
blowing snow
freezing rain

Obviously we wouldn't ask Bob to include all 100 of the standard synoptic symbols so some of the above are generalizations. If I've left any important ones off or you can improve the list feel free to add your comments or suggestions.
Thanks,

Jeff, N4TRY
Asst. Section Manager for SKYWARN
Northern Florida ARES

562. more computer interface circuit

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 27 May 1995 21:21:10 -0500
To: aprssig@tapr.org
Message-ID: <v01510101abed8daf7cc4@[199.1.11.167]>
Rendered body type: text/plain

I used the Max-232 to make the Garmin output RS-232 and used a direct feed of the computers RS-232 into the Garmin for use with MacGPS and other programs that load data into the tables in the GPS.

A Mac233 or DS233 design will need less parts as charging pump in in the chip.

Data sheets available via Internet from Dallas Semiconductor.

(Note the MAX232 / MAX233 is inverting so run the signal through twice, thanks to Chad R. Larson for telling me that.)

I hope this can help someone.

BOB KC5EJK Dallas kc5ejk@onramp.net

563. computer interface circuit

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 27 May 1995 21:20:18 -0500
To: aprssig@tapr.org
Message-ID: <v01510100abed8c6f317e@[199.1.11.167]>
Rendered body type: text/plain

I have exchanging E-mail with Lorne Dudley about Garmin Computer interfaces and he posted this message in sci.geo.satellite-nav.
This is what he did.

I hope this can help someone.

BOB KC5EJK Dallas kc5ejk@onramp.net

----- Lorne Dudley posting -----

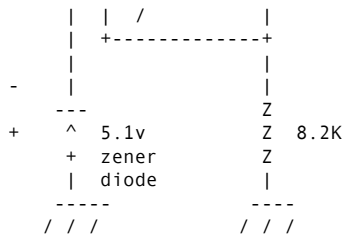
From: <DUDLEY2@QUCDN.QueensU.CA>
Newsgroups: sci.geo.satellite-nav
Subject: Garmin GPS50 / computer interface circuit
Date: Fri, 26 May 1995 09:05:21 EDT
Organization: Queen's University at Kingston
Message-ID: <95146.090521DUDLEY2@QUCDN.QueensU.CA>

Since asking for assistance a couple of weeks ago, I received many notes giving hints and suggestions. Among those providing assistance and support were Rane Curl, Reg Neale, Peter Bennett, Phil Sohn, Larry James, Bob Winingham, Tom Dawes-Gamble, Mike Walters, Randy Bowman.

I borrowed an oscilloscope and other electronic gadgetry and with the help of local computer techs set down to explore the problem.

The summary is that the GPS50 provides NMEA output, not RS232 or RS422. It's a current loop output device, and depends on a resistive load to provide RS232 and RS422 voltage swings. According to the computer techs here, there is wide variety in the design of COM ports and the impedance presented to current loop devices.

In a following post, I am publishing a computer interface which



Parts List

Qty

- 1 quad op amplifier, LM324N, Radio Shack 276-1711, \$2.99 CDN.
- 2 diode, 1N4007, or equivalent (not critical)
- 1 zener diode, 5.1v, 1N4733, Radio Shack 276-565, \$1.69 CDN.
- 5 resistor, 8.2K, 1/4 watt
- 3 resistor, 8.2K, 1/4 watt

End

564. Re: [APRSSIG:1501] Secret Garmin Goodies

From: JeffS5@aol.com
 Date: Sat, 27 May 1995 17:09:35 -0400
 To: aprssig@tapr.org
 Message-ID: <950527170933_14439781@aol.com>
 Rendered body type: text/plain

Careful folks!

I tried this on my -75 and got the boxes, etc with only 'Sig Amplitude' & 'TCXO Drift' on the display. Guess the rest is for the -45's.

Anyway . . . DO NOT press Clear & Pwr at the same time lest you chunk the entire Waypoint and Almanac databases in 1 swell-foop!

Well, 10-reloading!

Jeff-WA6EQU

565. Test

From: wno1le@hiwaay.net
 Date: Tue, 30 May 95 09:37:40 CDT
 To: aprssig@tapr.org
 Message-ID: <Chameleon.950530093800.wno1le@wno1le.HiWAAAY.net>
 Rendered body type: text/plain

Test message...

566. MFJ DATA RADIO XTALS

From: jeff.brenton@espi.com
 Date: Sun, 28 May 95 00:30:40 -0500
 To: aprssig@tapr.org
 Message-ID: <9505280030.00PUS03@espi.com>
 Rendered body type: text/plain

Ralph Fowler asked if MFJ was still charging \$25 extra for the 145.79 crystals, even when they weren't shipping the never-to-be used 145.01 crystals; the answer, apparently, is yes, according to R&L Electronics. The only advantage to special ordering the units pre-crystalled is that MFJ will install them at no *additional* charge *for labor*.

So, the radios will be \$107.95 + \$24.95 = \$132.90.

 □ KWQ/2 1.2a □

567. Request & Registration

From: "Aitor Arrieta G." <aitor@mail.internet.com.mx>
 Date: Tue, 30 May 95 08:28:40 CST
 To: aprssig@tapr.org
 Message-ID: <44511.aitor@mail.internet.com.mx>
 Rendered body type: text/plain

30-May-1995

Hi Bob.

My name is Aitor Arrieta (XE1YAW) and i live in Mexico City. Past Tuesday i send to you the registration form and the money for the APRS Shareware (\$24.00 dils) and the GPS registration (\$9). The total was \$33.00. I already have the software version 6.8B. XE1KK buy one to you at Dayton Hamvention and give me a copy. So the only thing that i need know are the two registration numbers. I really appreciatte i you can send me these two numbers by this way.

Also i have a question to you. Yesterday i try to make one test with the software. The configuration is a 486dx2 66mhz, and a dsp2232 from aea, with a FT736r radio. This is my satellite rig. I put another tnc (a little kantronics) with a walkie talkie and a terminal. I program the beacon of the kan tnc with the following message !1968.00N/09933.00y HOLA XE1YAW.

In the line 25 of the APRS screen i recieve No>p1 XE1YAW*>BEACON:....

I read in your manual that No> means that the software don't find the >to field. But i don't know why. Then i send with the aprs a POSIT packet i recieve in the Kantronics TNC, the i just change the Latitud and longitude fields and send back to the aprs software in unproto converse mode with the APRS destination address with the same result. I know that i am doing something wrong but i don't know what. Could you help me please.

Thank You in Advance

Best Regards

Aitor

568. XMIT Aborted message

From: wnolle@hiwaay.net
Date: Sun, 28 May 95 10:07:08 CDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950528101020.wnolle@wnolle.HiWAAY.net>
Rendered body type: text/plain

Just wondering if anyone else run accross this problem.

When i use the X-M and you enter it to close together of course you get the message XMT ABORTED (Wait 8 secs). Well last night that message was permanent untill i restarted APRS.

-----<<< Bill >>>-----

569. unsubscribe

From: HWax@aol.com
Date: Sat, 27 May 1995 19:25:10 -0400
To: aprssig@tapr.org
Message-ID: <950527192509_14487571@aol.com>
Rendered body type: text/plain

I have tried to unsubscribe to this sig but I must have the wrong address. I used listserv@tapr.org. I would appreciate the correct address and format.
Thanks, Howard

570. Mac Map Making?

From: Richard Boggs <rboggs@pacifier.com>
Date: Tue, 30 May 1995 09:08:18 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.950530090323.23079C-100000@pacifier.com>
Rendered body type: text/plain

I anyone making maps on/for the Mac?

What application are you using and what are you using for data source?
Is anyone using the USGS map data available via ftp? How are you using which variety of dataset?

I just "discovered" the Garmin GPS-45, MacAPRS, and the USGS ftp site... are there any "old hands" out there who can provide some advice for a beginner?

Rick

Rick Boggs	:	When men come to like a sea-life,
rboggs@pacifier.com	:	They are not fit to live on land.
Merchant Marine and Maritime Pages	:	
http://www.pacifier.com/~rboggs	:	Samuel Johnson

571. Re: [APRSSIG:1512] Re: Disturbing Answer

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Tue, 30 May 1995 11:38:12 -0500

```
>>With a positive role model in your area, you can work towards
>>an APRS network that fits the needs of all users.
>>
>>
>>73,
>>
>>
>>Steve Caesar    AA8JK/VK4SID
>>Tri-State APRS Working Group
>>
>>AA8JK@AOL.COM
```

```

////////////////////////////////////
Larry M. Keeran ISU IS - Data Processing Equip Tech      lmkeeran@ilstu.edu
EC McLean Co-Pres CIRC-CIPRUS,Inc-APRSM-APRS k9orp.ampr.org (44.72.126.97)
wireless path: k9orp via ILGRD1      k9orp@wb9uus.ampr.org (44.72.123.97)
////////////////////////////////////

```

From: W2HOB@aol.com
Date: Tue, 30 May 1995 12:38:59 -0400
To: aprssig@tapr.org
Message-ID: <950530123857_16888493@aol.com>
Rendered body type: text/plain

73 de Boyd AR

From: sproul@ap.org (Mark Sproul)
Date: Tue, 30 May 1995 13:03:57 -0400
To: aprssig@tapr.org
Cc: ksproul@hardees.rutgers.edu
Message-ID: <v02110102abf1000ab11a@[165.1.27.20]>
Rendered body type: text/plain

(reply to sproul@eos.ap.org)

Mark Sproul	Amateur Radio: KB2ICI
Software Engineer @ Assoc Press	AppleLink: Sproul.M
sproul@eos.ap.org	Work: 609-860-7120
North Brunswick, NJ	Fax: 609-860-7129
http://www.ns.rutgers.edu/~ksproul/KB2ICI.html	

574. Re: [APRSSIG:1444] Magellan Meridian pinouts

From: "Bill Houghton" <whoughton@igc.apc.org>
Date: Fri, 26 May 1995 11:37:37 +0000
To: aprssig@tapr.org
Message-ID: <199505301656.JAA05755@igc3.igc.apc.org>
Rendered body type: text/plain

The other day somebody was looking for the E&B phone number. I lost that message and don't know if any one else responded. Here it is:

1-800-BOATING

(Garmin GPS 45- 299, cable: \$28
Meridian XL 299

575. Re: [APRSSIG:1465] another test

From: johnbeal@aztec.asu.edu (JOHN L. BEAL)
Date: Mon, 29 May 1995 16:04:15 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <9505292304.AA20871@aztec.asu.edu>
Rendered body type: text/plain

>
>
> Hi all !
>
> How about this ? Pse reply if this came through !
>
>
> 73 de Vesa OH6MJM
>
>
I got it and I am sure everyone did.

--
John L. Beal Personal responsibility
Running Windows 3.1

576. Re: [APRSSIG:1451] pk 900

From: johnbeal@aztec.asu.edu (JOHN L. BEAL)
Date: Mon, 29 May 1995 16:00:48 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <9505292300.AA20232@aztec.asu.edu>
Rendered body type: text/plain

>
>I need help,, I was running aprs68a on a 486/66.
>Now running the same rev or 69 , I get the following problem.
>
>APRS will not int the TNC. In fact it will not talk to it??? (intermiten)
>
>I must re-boot. (the system locks when leaving APRS) @ SAVING BACKUP.BK.
>
>
>Switching to windows AEA PK program all is OK? When I try to restart APRS it
>hanges again.
>
>Using procomm I can talk to the TNC ... but again when aprs is started the
>tnc hangs.
I have had some of the same problems with several Windows programs. It seems to vary and if I try several on the same port I can get them to fail in many rather unpredictable orders. The same trouble does not happen running DOS. It seems to be the Windows port driver. That would explain why you can cure it by shutting down Windows. The problem is that the exit of one program does not properly exit the port driver or the driver software does not clear the port hardware, which is itself a controller chip. I "solved it" by finding a communications program that included, and loaded, one.

--
John L. Beal Personal responsibility
Running Windows 3.1

577. Newmaps

From: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 30 May 1995 13:54:01 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950530134815.4429I-100000@greatlakes.nadn.navy.mil>

Over the weekend I made a new set of HIWAIII maps, a second 32 mile map of the Puget Sound area, and a new map of ATLANTA. These are in the file called NEWMAPS.zip on the ARN BBS. Again, these maps are almost turn-key to make using the MAKEMAP.bas program BUT also remember that they are from the 2,000,000 CD ROM, so they look like and have accuracy comparable to a state-highway map under a magnifying glass.

578. Re: [APRSSIG:1519] New WX Symbols for APRS

```
>Hello All:
>       I've asked Bob to consider adding weather symbols that are used by
>the National Weather Service.  My list of symbols includes one for:
>...snip...
>Jeff, N4TRY
>Asst. Section Manager for SKYWARN
>Northern Florida ARES
```

//////////////////////////////////////
 Larry M. Keeran ISU IS - Data Processing Equip Tech lmkeeran@ilstu.edu
 EC McLean Co-Pres CIRC-CIPRUS,Inc-APRSM-APRS k9orp.ampr.org (44.72.126.97)
 wireless path: k9orp via ILGRD1 k9orp@wb9uus.ampr.org (44.72.123.97)
 //////////////////////////////////////

In a following post, I am publishing a computer interface which

To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.90.950530164838.523D-100000@marlin.gulf.net>
Rendered body type: text/plain

On Tue, 30 May 1995, Larry Keeran wrote:

>
> Jeff, I have had success adding my description, the detail part, to the
> object name that appears on the screen. That lets me use his symbols. I
> also put in the comments for that object "confirmed by spotter" "reported
> by public". Could this be a solution for you?
>

Hi Larry,

We've essentially been doing this already. Our ultimate goal is to set up APRS stations in the NWS offices and would like to keep things as consistent with what they're used to as possible. Also, the larger symbols tend to clutter up the maps a bit, and we're hoping the additional symbol set will help clear things up. I understand from Bob that all the symbols currently in use will remain and these will just be extras. Thanks for the suggestions.

Jeff, N4TRY
Asst. Section Manager for SKYWARN
Northern Florida ARES

583. Re: [APRSSIG:1535] Newmaps

From: debell@heartland.bradley.edu (Darrell Bell)
Date: Tue, 30 May 95 17:10:24 CDT
To: aprssig@tapr.org
Message-ID: <9505302210.AA17471@heartland.bradley.edu>
Rendered body type: text/plain

Bob Bruninga:

Received the V# requested. Per instructions on the shareware that I was provided it was my understanding that I would be sent a disk with the most up to date info on it. What I have is, so I am told, rather outdated. I understood that you would send most current on a disk for the additional \$9. Darrell in Peoria.

584. Band Planning for APRS

From: Bob Wilkins <rwilkins@ccnet.com>
Date: Tue, 30 May 1995 16:22:54 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9505301548.A2370-0100000@ccnet3>
Rendered body type: text/plain

The concept of band planning for differing packet uses has worked well here in northern california for several years. Our digital coordinators recognized the need to allocate specific frequencies for each type of digital activity. With usage allocation all your fears of folks putting their bbs systems on 79 are lessened.

Our bbs forwarding sysops will not forward traffic to a new bbs unless that bbs is on a bbs frequency and has a proper forwarding frequency.

NOW is the time to work with your digital coordinators to establish a nation-wide UHF frequency. The suggested 445.925 frequency is not suitable in most of the west. This is a repeater or link frequency in the expanded 440-450 repeater band. In our area this frequency is an input to three voice repeaters and is used as an auxiliary link frequency to four other repeaters. I suspect that other areas of the nation, especially the major metro areas will report similar coordinated voice activities on this frequency. The days of coordinating a nation-wide packet frequency from a barn in Newington are over. We must work with the regional band planners if we truly want to reach our goal.

I am willing to start the ball rolling by suggesting we look at 431 MHz. All the cheapie radios will work at 431 MHz. I beleive it is possible to establish a nation-wide APRS usage frequency in this band if we all are willing to participate in upcoming repeater and digital band planning meetings. This may take a year or two for all the groups to agree. Other special interest digital applications are on the horizon, we must all work together to facilitate this emerging technology. I find the discussion on whether to sell cheap 79 crystals totaly out of order.

Good regional band planning and reasonable coordination of wide digipeaters should be the real discussion on this list.

Fellows in the South East may want to participate in the band planning sessions mentioned in the following post to rec.radio.amateur.digital.misc

DIGITAL OPERATORS TO BE INVITED TO

SERA SUMMER BOARD MEETING

5/28/95

This message is about packet/digital communication, band-planning, frequency coordination, and the SouthEastern Repeater Association.

Representatives from the digital community in the 8 SERA states* will be invited to the SERA board meeting in Knoxville this July to discuss how SERA and the digital groups can better communicate and cooperate. This message is being sent from the North Carolina digital groups, Packet>East and CDCC (Carolina Digital Coordinating Council). Now some details:

As you may know, SERA revised its UHF band plan last year. The band plan covers the entire band, 420 - 450 MHz, and affects all modes using the band. There were significant changes made for digital operation. Channels have been set aside for both narrowband and wideband digital, some with 5 MHz offsets that can be used as repeaters or duplex link channels. This band plan offers digital operators a lot more than we've had under the old ARRL plan, and it offers structure and order for future growth, rather than the uncoordinated hodge-podge of frequency utilization we have now.

While this looks good, it didn't sit well with many of the node and BBS sysops here in North Carolina. We didn't like being handed a band plan we didn't help write, and we resented it being administered by "someone else" -- SERA. We did recognize that the plan had a lot to offer, and was something we needed. We also recognize that the band plan is just a start, and further coordination is needed to help systems work together under the plan.

I wrote to SERA on behalf of Packet>East, and was invited to attend the January '95 board meeting. There I learned that SERA does NOT want to administer a digital band plan, at least not beyond being the coordinating body for digital repeaters. And it does NOT want to take over the jobs of the existing digital groups.

But SERA does want to find a way to bring representation from digital operators onto the SERA board, and make its resources available to the digital community.

As a guest at the January meeting, I proposed this idea for the summer meeting: The SERA board meets Saturday afternoon and Sunday morning. I proposed that digital groups meet separately on Saturday, to discuss what the problems and needs are in the RF area of digital, how SERA can help solve those problems, and how we think we could be a part of SERA. On Sunday, we would meet with the SERA board to present our conclusions. (SERA will provide a meeting room for us on Saturday at no cost.)

The options for participation are pretty wide open. Again, SERA does NOT want to absorb or take over any existing digital groups. But one idea floated is to add to the board an assistant Director for digital in each SERA state. This would be a voting position to represent digital interests in spectrum management, and that person may handle digital frequency coordination. This is just a starting point, and questions like "who would elect this person" are undecided.

The next step is to invite participants to the meeting, to be held in July in Knoxville (the exact date isn't available yet). If you are interested, I would like to hear from you, ASAP. SERA President Dave Shiplett, AC4MU, and I will be sending invitations soon. I'd like to know a little about your involvement in packet/digital, and what groups exist in your state, but I think anyone with a serious interest in planning and coordinating the RF end of amateur VHF/UHF digital should be there.

You can reach me at these addresses:

Gary Pearce KN4AQ
4400 Bleeker Ct.
Raleigh, NC 27606

packet: KN4AQ @ N1GMV.#RTP.NC.US.NOAM

internet: kn4aq.gary@mms.raleigh.nc.us

telephone: 919-233-8306

PLEASE FORWARD THIS MESSAGE to anyone you know who might be interested!
As you know, packet bulletins can be easily lost in the shuffle, and it
would be really great if the interested people saw this message.

Thanks and 73,

Gary KN4AQ
Vice President,
Packet>East of NC

*SERA covers Kentucky, Mississippi, North and South Carolina, southern
Virginia, Tennessee, West Virginia and Georgia.

Bob Wilkins
Berkeley, California
94701-0710

work bwilkins@cave.org
home rwilkins@ccnet.com
play n6fri@n6eeg.#nocal.ca.usa.noam

585. The GPS Computer Interface

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 30 May 1995 21:04:54 -0500
To: aprssig@tapr.org
Message-ID: <v01510102abf17b79cf55@[199.1.11.180]>
Rendered body type: text/plain

Lorne Dudley <DUDLEY2@QUCDN.QueensU.CA> built the OP amp circuit
with the Radio shack parts. I built the RS-232 line driver and MAX232
layout. The line drivers needs +- 12 volts so i don't think they are
as useful as the MAX232 design which only needs 5 Volts.

I just have all the circuit all over my desk not on a board or in a
cable hood. Putting a MAC233 in a RS-232 data hood might be a popular
project for GPS users.

I cheated on the device I do use with my Garmin-45

..

I have an ICOM CT-17 communication interface (CI-V) Level Converter
that allows a computer RS-232 to control a ICOM rig. The unit uses
a MAC232 Chip. I just used the two extra set of pin not being used
on the MAC232 to change the Garmin output to normal +- level RS-232
for the computer. I did need to run loop through two of the buffers
as they invert the signal.

I placed a 1/4 amp fuse in side the unit and steal power for the GPS
from the CT-17 unit. I also added a power plug to go to the KPC-3
so all devices get power from one source.

The output Signal from the computer to the GPS was just a direct connection
and has worked fine. I did not need any buffer or level conversion.

I added 2 cables with different RS-232 female connectors from the
CT-17 . One for computer connection so that I have a GPS input for MacAPRS
and the other is for the KPC-3 TNC/GPS for stand alone remote use.

RS-232 pins 2 and 3 are swapped in one of the connectors. The RS-232
cables are for use one at a time not both together. This is NOT a HST
setup.

Always watch out for RS-232 pin 2 and 3. The pin with the negative 4
to negative 12 volts is usually the Transmit pin and 7 is always ground.

Bob KC5EJK Dallas -- kc5ejk@onramp.net --

586. Re: [APRSSIG:1520] more computer interface circuit

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Tue, 30 May 1995 22:32:28 -0500 (CDT)
To: aprssig@tapr.org

Message-ID: <199505310332.WAA10868@solar.cs.tamu.edu>
Rendered body type: text/plain

Robert Winingham sez:

>
> I used the Max-232 to make the Garmin output RS-232 and used a direct feed
> of the computers RS-232 into the Garmin for use with MacGPS and other programs
> that load data into the tables in the GPS.
>
> A Mac233 or DS233 design will need less parts as charging pump in in the chip.
>
> Data sheets available via Internet from Dallas Semiconductor.
>
> (Note the MAX232 / MAX233 is inverting so run the signal through twice, thanks
> to Chad R. Larson for telling me that.)

Cute, but not consistent with my results. Still, I'll look at this and confirm it. Even if you had to "run it thru twice" it still beats the socks off the 1488/1489 combo.

587. Re: The GPS Computer Interface

From: rwf@mindspring.com (Ralph Fowler, N4NEQ)
Date: Wed, 31 May 1995 00:18:28 -0500
To: aprssig@tapr.org
Message-ID: <199505310412.AAA03706@dylan.mindspring.com>
Rendered body type: text/plain

I was originally going to send this as Email to Lorne Dudley and Bob, KC5EJK, but after reading it I decided it was probably informative enough to place on the SIG. It details some lessons I learned in GPS interfacing.

Lorne and Bob-

I use IBM PC Clones of many varieties. When I first got a Garmin 45, I was told by Garmin that the levels were "not standard RS232", that "the official Garmin cable had a circuit in it to convert levels" and that I "should make a level converter". So last year, I did what you are suggesting.

After going to the trouble to make the MAX232 device (yes, it worked) I re-read Bobs docs about using the pullup resistor to accomplish a "level shift". So I tried that as a way to lower the parts count. In a later conversation with Garmin, the Tech there admitted this time that their \$150.00 PC cable was straight through and that the original data cable would work fine if connected straight to the computer. The little data/power cable now sold for \$28.00 was included with my 45. (Great deal, huh- I paid 469.00 bucks for it in September <g>)

I threw out all my circuits, tried the suggestion, and had no problems. As a matter of fact- I have had no problems with ANY computer and have even used the HSP adapter sold by PacCom. After reworking one small problem, even it worked. There have been NO level problems using the Garmin 45 and any of the PCs I've tried PC directly.

So my question is this: Is it that the MAC is not as "compatible" with the various voltage levels flavors of RS232 that are out there, and this circuit is really required, or are you doing as I did- going by what someone told you? I was really frustrated to see that I had wasted the time and energy cobbling up those circuits when it was not really needed.

Ralph , N4NEQ

Ralph Fowler, N4NEQ
rwf@mindspring.com
Web: <http://www.mindspring.com/~rwf>

Atlanta, GA USA
S.E.R.A. ATV Technical Advisor
for ATV and Ham info

588. HSP Adapter, GPS, and Laptop interfacing

From: rwf@mindspring.com (Ralph Fowler, N4NEQ)
Date: Wed, 31 May 1995 00:42:01 -0500
To: aprssig@tapr.org
Message-ID: <199505310436.AAA06869@dylan.mindspring.com>
Rendered body type: text/plain

I hope others on the SIG can benefit from this experience:

For the first 6 months after purchasing my GPS, I used it with APRS in the car, driving around in "James Bond Mode" plotting my tracks on APRS maps. I even plotted an entire 2.5 week trip to Florida and around the entire state! I had only one serial port on my laptop computer, so I kept procrastinating about connecting the TNC into the system. Just never got around to building the Hardware Serial Port Adapter.

Ran into Gwyn Reedy from PacComm at "Ham Radio 95" in Atlanta this year and decided to spring for the assembled HSP adapter that his Company manufactures. It didn't work with my Compaq 386-25 LTE laptop. Messed around with it for quite awhile before realizing the problem. The circuit as provided by PacCom relies on there being power available on pin 6 of the computer's 9 pin connector. It "borrows" this power to operate its switching transistors. Bob B. and I originally thought that it was too much voltage drop through a couple of diodes- but the problem was just : No Power.

I was using a DRSI TNC at the time, a DPK 1200 I think, and found that I just needed to reroute the power wire to pin 6 of the TNC instead of the laptop. After the change, the thing worked great!

At Dayton I picked up a KPC3 TNC. New problem. 25 pin connector wouldn't mate with 9 pin cable on PacComm HSP adapter. Changed plug to 25 pin. No workie!
Found that this TNC had no power on pin 6. Ended up adding a jumper in the TNC that allows you to feed 12 V into the TNC through the 25 pin connector. Just used this pin to "borrow" power from the TNC instead. It now works like a charm!

Lessons learned:

1. It would be nice if PacComm had an extra conductor going to the TNC in case power has to be obtained there. I had to tie wrap an extra conductor to the jacket of the TNC cable.
2. Not all TNC serial connectors (or PCs) can be relied upon to have anything standard other than transmit data, receive data, and ground.
3. Be prepared to change the plug on the HSP adapter cable unless you use a TNC with a 9 pin connector. (Why *does* Kantronics use that big 25 pin plug anyway? Takes up half the rear panel!)

Ralph Fowler, N4NEQ
rwf@mindspring.com
Web: <http://www.mindspring.com/~rwf>

Atlanta, GA USA
S.E.R.A. ATV Technical Advisor
for ATV and Ham info

589. Re: [APRSSIG:1542] Band Planning for APRS

From: kc6wya@bdt.com (Barry Winkler)
Date: Tue, 30 May 95 22:39 PDT
To: aprssig@tapr.org
Message-ID: <m0sGgUw-00042HC@bdt.bdt.com>
Rendered body type: text/plain

hello bob
good letter to aprs
some times it takes some one to show
how band planning works
good job
barry kc6wya@bdt.com

>The concept of band planning for differing packet uses has worked well
>here in northern california for several years. Our digital coordinators
>recognized the need to allocate specific frequencies for each type of
>digital activity. With usage allocation all your fears of folks putting
>their bbs systems on 79 are lessened.
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>three voice repeaters and is used as an auxiliary link frequency to four
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>
>

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> SERA SUMMER BOARD MEETING
>
>
>
>5/28/95
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From: jeff.brenton@espi.com
Date: Wed, 31 May 95 00:17:23 -0500
To: aprssig@tapr.org
Message-ID: <9505310017.00ENN08@espi.com>
Rendered body type: text/plain

Ron N9QGS typed about his recent purchase of a Garmin 45, and wanted to know if it could be set to statute miles. If the 45 is anything like the 55, one of the menu options is "UNITS", which will allow changing from Nautical/Knots/Feet to Statute/MPH/Feet to Kilometers/KPH/Meters.

□ KWQ/2 1.2i NR □

592. Lockups

From: Jack_Anderson@fforum.blkcat.com (Jack Anderson)
Date: Wed, 31 May 1995 00:36:00 -0400
To: "Aprssig@tapr.org"@blkcat.clark.net
Message-ID: <NOMSGID_1=3A109=2F239.0_950531_003600_d4d2f778@fidonet.org>
Rendered body type: text/plain

N> From: N9VJQ@aol.com
N>
N> Hi,
N> This may have been answered before, but has anyone had the problem of
N> locking up after its been on awhile. N9SLD has a U II and his quits
N> once and a while, and mine (v 6.8E) quits entirely, even won't
N> accept
N> input. We both have LOG on. Haven't tried it off. Thot I'd see if
N> else has that problem.
N>
N> Thanks Barry
N> n9vjq
N> n9vjq@aol.com

I had a similar problem with my U-II equipped 386-25. APRS would run for a few hours, or a day or so before crashing. A reboot was necessary to bring the machine out of its coma.

The fix: replaced 16450 UART equipped serial board with one that uses 16550 UARTS. APRS has not crashed since the upgrade.

My hunch is that the 16450 UARTS (with no FIFO) were unable to properly buffer data from the TNC or U-II while the PC was off doing other things, like writing the HST file to disk, etc. The 16550 UARTS have a small FIFO buffer that allows them to better handle the buffering demands of multitasking and other processing that occurs while the COM ports are active.

Jack

593. Re: [APRSSIG:1546] HSP Adapter, GPS, and Laptop interfacing

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Wed, 31 May 95 06:11:09 UTC
To: aprssig@tapr.org
Message-ID: <4435@paccomm.com>
Rendered body type: text/plain

re: Ralph Fowler -> APRS port switch didn't work - no power from PC pin 6.

A running production change in late April now has the PacComm APRS port switch powered from the TNC's DSR line in addition to the computer pin 6. We figured out the problem about the same time as Ralph did.

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org
+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

594. Garmin GPS90 info?

From: Bob Sayers <bsayers@implex.co.uk>
Date: Wed, 31 May 95 10:47:52 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.950531105303.bsayers@implex.epline.implex.co.uk>
Rendered body type: text/plain

I'm looking to purchase one of the new (in the UK) Garmin PK90 handhelds, for use both with APRS and without. I'm told by the dealer that the manufacturers power/data lead can be used for either data transfer OR external power, but not both at the same time. Can anyone confirm this, and whether postings on APRSSIG in the past about the Garmin 45 cable will also apply to the '90?

Anyone got any general observations about any features or aspects of the GPS90?

Name: Bob Sayers
Emergency Planning Unit, West Midlands Fire Service,
Lancaster Circus, Birmingham, UK
E-mail: bsayers@epline.implex.co.uk (Bob Sayers)
AX25:
'phone: 0121-380-7611 fax: 0121-359-5108
Date: 04/19/95
Time: 15:08:34

595. Re: [APRSSIG:1552] Garmin GPS90 info?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 31 May 1995 14:44:20 -0500
To: aprssig@tapr.org
Message-ID: <v01510101abf27470c4f2@[199.1.11.192]>
Rendered body type: text/plain

>I'm looking to purchase one of the new (in the UK) Garmin PK90 handhelds,
>for use both
>with APRS and without. I'm told by the dealer that the manufacturers
>power/data lead can
>be used for either data transfer OR external power, but not both at the
>same time. Can
>anyone confirm this, and whether postings on APRSSIG in the past about the
>Garmin 45
>cable will also apply to the '90?
>
>Anyone got any general observations about any features or aspects of the GPS90?
>

>Name: Bob Sayers
>Emergency Planning Unit, West Midlands Fire Service,
>Lancaster Circus, Birmingham, UK
>E-mail: bsayers@epline.implex.co.uk (Bob Sayers)
>AX25:
>'phone: 0121-380-7611 fax: 0121-359-5108
>Date: 04/19/95
>Time: 15:08:34
>
>-----

There are two cables for the Garmin-45

One: Comes with the Software and has a 9 pin (F) PC plug on the end
for data only - power leads not in PC plug

Two: A power/data cable with a fuse, that can do both at once.
The Garmin end is 4 pins the other end is just bare wires
1. Xmit
2. Rec
3. Ground -- common to data and power
4. + power (5 to 20 Volts for Garmin-45)

Bob

kc5ejk@onramp.net

596. Re: [APRSSIG:1553] Re: Garmin GPS90 info?

From: rwf@mindspring.com (Ralph Fowler, N4NEQ)
Date: Wed, 31 May 1995 22:13:50 -0500
To: aprssig@tapr.org
Message-ID: <199506010208.WAA21895@dylan.mindspring.com>
Rendered body type: text/plain

Interesting, Bob. There must be 3 cables. When I bought my 45 in September, 1994- (for 469.00) It came "free" with the mobile bracket and the data cable. Garmin plug on one end and bare leads on the other. No Fuse. Glad they got smart and added a fuse so folks wouldn't burn something out! :)

>>-----
>There are two cables for the Garmin-45
>
>One: Comes with the Software and has a 9 pin (F) PC plug on the end
> for data only - power leads not in PC plug
>
>Two: A power/data cable with a fuse, that can do both at once.
> The Garmin end is 4 pins the other end is just bare wires
> 1. Xmit
> 2. Rec
> 3. Ground -- common to data and power
> 4. + power (5 to 20 Volts for Garmin-45)
>
>Bob
>
>kc5ejk@onramp.net

Ralph Fowler, N4NEQ Atlanta, GA USA
rwf@mindspring.com S.E.R.A. ATV Technical Advisor
Web: <http://www.mindspring.com/~rwf> for ATV and Ham info

597. Re: [APRSSIG:1501] Secret Gar...

From: RonN9QGS@aol.com
Date: Wed, 31 May 1995 23:20:31 -0400
To: aprssig@tapr.org
Message-ID: <950531231430_83130224@aol.com>
Rendered body type: text/plain

Also I found with the Garmin, along with getting the Earth spinning in the Map display, use the arrows and you can speed it up and slow it down, change the direction. Fun!

July 1995

Original source file: aprssig.9507

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1995-07/TAPR-APRS_1995-07.txt

1. subscribe

From: KenMatth@aol.com
Date: Sat, 1 Jul 1995 01:17:28 -0400
To: aprssig@tapr.org
Message-ID: <950701011726_105991755@aol.com>
Rendered body type: text/plain

subscribe

2. USGS2MAPS Hints & fixes

From: N3MNT@aol.com
Date: Sat, 1 Jul 1995 09:08:33 -0400
To: aprssig@tapr.org
Message-ID: <950701090831_106083504@aol.com>
Rendered body type: text/plain

I found two show stopperd in the version of USGS2MAPS on ARN BBS. There is a corrupt line in the instruction print area with reference to menus. Just delete that line completely.

Also the program expects the merged .gra file to be in c:\aprs\makemaps. If not there you must create dir and put it there or change ine in program . To change line search for word c:\aprs\ and change to location of your files.

I put USGSMA.zip on ARN for those who can't ftp from this board. It is merged file for mid atlantic states and worked great for me.
Good luck.

3. Re: My setup?

From: rkramer@vaxxine.com (Ronald Kramer)
Date: Sat, 1 Jul 1995 10:56:50 -0400
To: aprssig@tapr.org
Message-ID: <9507011456.AA08103@alpha.vaxxine.com>
Rendered body type: text/plain

My Vote.... keep the sig open to all subjects that interface with APRS....

My current equipment

Home:
GPS - none
TNC - AEA original PK232
Radio - ICOM IC271H
Antenna - Diamond 500 base at 75' agl
Computer - either Pentium 60/win95 or 486sx33/wfwg3.11

Shop:
GPS - none
TNC - MFJ 1270C or whatever is on demo at time
Radio - ICOM 2AT
Antenna - Hustler G6 at 35' agl
Computer - whatever is on Demo

Mobile:
GPS - Garman 45 (just got it last week and fell in love with it)
TNC - KPC3 ver 6.0 eeprom (perfect tnc for mobile) had a tiny-2 originally here
Radio - ICOM IC28H
Antenna - Valor dual band thru the window mount
Computer - Samsung 286 laptop mono screen

cable system - GPS mode for capture use output from GPS to both tnc and laptop in parallel. Use Telix on computer to capture output from GPS for making detailed maps later at home.
APRS mode run GPS to TNC input output of tnc to Laptop. Can view all activity on freq. but no TX as I have not registered GPS part yet.

National CANADIAN and Western New York APRS Frequency is 144.390
WIDE area digi's locally are VE3YAP Georgetown, VE3YYZ Toronto,
W2ICZ-2 Buffalo NY, KE2VW-2 Colden NY

Happy Mobile Packeting

Regards, Ron ... 73 de Ron
Internet: rkramer@vaxxine.com (Ron Kramer)
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

4. Re: [APRSSIG:2018] Re: My setup?

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Sat, 1 Jul 1995 10:57:00 -0700
To: aprssig@tapr.org
Message-ID: <199507011757.KAA07424@ix7.ix.netcom.com>
Rendered body type: text/plain

Ryan, you wrote:

>
>Daniel Velez babbled this...
>
>> Try out an HP 100/200LX! The DOS version runs fine (although slow...)!
>>
>Can you give more info on the HP 100/200LX? Like price, size, where to get
>it, and why I would want one? :-)
>
>Eternally browsing... 73 de N0PBS
>
>---
>Ryan Tucker, aka HoopyCat
>rtucker@worf.netins.net
><http://www.netins.net/showcase/rtucker>
>
>Finger rtucker@worf.netins.net for PGP Public Key
>

The HP 100LX and 200LX are palmtop DOS machines with a serial port, PCMCIA (type II) slot, and Infra Red port. They come in two models: 1MB ram and 2MB ram. The 200 (which I have) comes with the following apps which operate in a graphic environment much like Windows: appt scheduler, phone book, word processor, Quicken, Lotus 123, an HP calculator program (many neat functions), cc: Mail, data comm program, LapLink, a file manager-like program, a couple games, and a few other pgms. The 200 1MB costs about \$460 on sale at Service Merchandise...but if you want good current info check out comp.sys.palmtops newsgroup. You'll find most of the postings geared toward the HP models. Also, rumor has it there's another HP model coming out soon...check out the newsgroup for the FAQ and other gouge.

Why would you want one? Let me tell you what we do with them:

- Great portable packet PC's! They run on two AA batts. Combined with a HT and KPC-3, they make a nice tiny packet setup using the built in comm program. We run APRS on them as well.

- The fact that they are DOS machines makes them handy. If it works on a PC it will likely work on the HP. As an example, we have a homebrew program we use to make maps for public service events that was compiled from QBasic. Connect the HP to a GPS and we record the data in a .RAW and .HST format. Great for making maps! Someone recently EMAILED me and mentioned running a SAT Tracking pgm on one...nice when watching for visual passes.

- The use of the built in apps is obvious. I have a nice 14.4 pocket modem which allows me to check on my mail on the road...

I'm not here to sell you one...but I can only say that it's a nice tool that I use for hobby and work.

73 de Dan

--

dvelez@ix.netcom.com or N4WZR@WD4MIZ.VA
A0000GA! A0000GA! DIVE! DIVE! DIVE!

5. Re: [APRSSIG:1743] Help with mouse for APRS

From: DJStark@aol.com
Date: Sat, 1 Jul 1995 19:43:03 -0400
To: aprssig@tapr.org
Message-ID: <950701194302_23653761@aol.com>
Rendered body type: text/plain

Hi Bob and All On The SIG,

Just wanted to add my vote to those wishing the PS/2 Mouse Port was supported, and while I'm at it wishing for appropriate video modes for Windows operation (in a Window). But I can't say enough good about the dedication and effort Bob and many others put in keeping a great program always evolving. And I understand that because time is limited improvements have to wait their turn. So, my vote is in...

A word about local operations in San Angelo, Texas: We have four or five local stations monitoring or at least beaconing positions. The sparse population allows us to operate on 145.01 without complaints, and some stations digi through Midland (110 mi WNW) and even Lubbock (170 mi NNW).

One station is usually set up as an HF Gate, and another is running his Ultimeter II on AUTOWX. We have two ops that sometimes appear as APRS mobile, using Garmin 45 and Motorola GPSSs. 73s, Dan

Dan Stark - N5ZYC 8105 Sentinel Circle, San Angelo, TX 76904-7941
(915) 942-8793 (phone/fax/voice mail) Internet: djstark@aol.com
Packet: N5ZYC@AA5KG.#WTX.TX.USA.NOAM
APRS: /3122.21N/10029.29W
Work: 17 LS/LGR, 355 Ft Lancaster Ave, Goodfellow AFB, TX 76908
(915) 654-5959 DSN: 477-5959 Fax (915) 654-3910

6. subscribe

From: cts@direct.ca (Fred Kehler)
Date: Sat, 1 Jul 1995 17:13:26 -0900
To: aprssig@tapr.org
Message-ID: <199507020006.RAA01301@linux.clrtech.com>
Rendered body type: text/plain

subscribe

fred ve7ipb

7. Interfacing to ROSS LCA200 Loran

From: Sean Smithers <seans@hq.jcic.org>
Date: Sat, 1 Jul 1995 20:13:20 -47900
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9507012050.A25095-0100000@hq.jcic.org>
Rendered body type: text/plain

Hello All;

I have a ROSS LCA200 Loran here and was wondering if anyone would know about interfacing it to rs-232 for APRS use. I specifically would like to know pinouts, signal levels or at the very least the manufacturers telephone number so I can get a service manual. Thank you for responses.

=====

Sean Smithers
Internet: seans@magick.net
CompuServe: 70132,136
Packet: N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM

8. Re: [APRSSIG:2023] Re: (Fwd) Colorado maps needed / wanted

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 2 Jul 1995 09:20:26 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507021420.JAA28212@solar.cs.tamu.edu>
Rendered body type: text/plain

Sadowski,P CPT USAF CRQS/RQEN sez:

>
>
> I saw this posting and it caused me to think twice.. as it was my
> understanding that the USCG DGPS beacons were the only thing
> the GBR-21 rcvr was good for... and that you need to be within a
> couple hundred miles of the beacon for it to be accurate... that
> if you weren't seeing the same satellites that the reference station
> saw... then the beacon info is not very useful.... The result of all
> this is that only folks in coastal areas (maybe the great lakes too?)
> actually can make use of the USCG beacons... that everyone
> else will have to ferret out commercial beacons in their area...
>
> I raise the flag on this only because of the Colorado location
> mentioned in the message... and the availability of USCG beacon
> data there....

I'd refer the interested to the following reference:

<http://www.navcen.uscg.mil>

You'll find a whole world of info there about the LF beacons and the DGPS plan. And, Al, they're coming soon to a harbor near you!

> BTW, I'd be real interested in seeing a data engine, DSP sound card,
> or other DSP implementation to demod the USCG (or other common
> standard) DGPS beacon..... anyone hear of such?

An interesting thought. And probably do-able, but I don't even have the time now to look into it. Any takers?

> Also... I'd be curious about the improved accuracy that I might get
> if I did my own local "post processing" adjustments to local xmted APRS
> data - - having a GPS at home - not moving I could subtract out the SA
> "wandering" from GPS derived APRS xmsns.... I realize this has it's
> problems... and it may even require the same GPS rcvr for both the
> mobile and fixed stations.... just wondering if that would improve
> the data... It's my understanding that the USCG beacons actually
> sends individual corrections for each satellite.... not this method...

Wander by the local University library and grab the Spring, 1986 Journal of Navigation (the US one; there is a British journal with a similar name). Look for the report by Special Committee 104 on DGPS recommendations. That'd give you definitive answers.

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

9. APRS WX/U-II Help

From: N9VJQ@aol.com
Date: Sun, 2 Jul 1995 11:12:56 -0400
To: aprssig@tapr.org
Message-ID: <950702111255_106552001@aol.com>
Rendered body type: text/plain

I need some assistance with my setup. I thot I read everything in the docs and this list about it but I can't seem to solve my problem. Here it is:

I have a GRIDPAD Model 1910 (8088) w/ 1 serial port
KPC-3 w/ Ver. 6.0 Firmware
AZDEN PCS-6000
U-II w/ Raingauge
Paccomm HSP switch

My intention was to make a mobile WX APRS/U-II reporting station using the Gridpad, KPC-3, U-II, etc.

When the U-II is plugged into COM 1 and the TNC is to COM 2 of my 386, everything works fine. The TNC puts out WX info supplied by the U-II. I just can't use my mouse. Oh, well!

But when I plug in the HSP switch to the GRIDPAD, and try to hook the U-II to it, here's what happens:

1. If I try to tell the program at startup that I have the TNC and WX on the same port, it tells me I've got a COM port conflict, and ignores me.

2. If I go thru the startup as TNC only and then try to go to activate the HSP option at the Alt-S-Gps-Hsp command, it seems to dump me into GSP, ask for my GPS validation #, then gives me a HSP Timeout prompt in the upper rt corner. And N-command gives me N9VJQ New:er MPH ____.

I was under the assumption that the HSP switch allowed use of two devices on 1 COM port.

It also works the same on the 386.

What am I doing wrong?

Thanx
N9VJQ Barry Leonard

10. Re: [APRSSIG:2009] Map Size

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 2 Jul 1995 12:53:06 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950702124804.981C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 30 Jun 1995, Barbara Fehner wrote:

> What is the size of a 32 mile map? Is it 32 X 32 or 64 X 64? I
> looked through all the documentation but could not find anything on this.

APR REPLY: All APRS ranges are from the center of the screen in Nautical miles (comes from my NAVY RADAR background). This makes a "32" mile map be about 64 miles tall by maybe 85 or so miles wide. Notice that the MAPS-PLOTS-RANGE command draws a range circle in STATUTE miles and in very recent version, you can change the display to read in KILOMETERS. Also in this recent improvement, the MAPS-PLOTS-RANGE command now shows the range and bearing to the cursor in GREAT-CIRCLE coordinates.

11. Re: [APRSSIG:2010] Re: Out Of Memory with MAPFIX12

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 2 Jul 1995 12:59:11 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950702125359.981D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 30 Jun 1995, Barbara Fehner wrote:

> Mapfix12.bas stops with an "out of memory " error when I try to run
> it with QBasic.

Remove a few of the unneeded PRINT statements (such as those for Digitizer) in Mapfix12 and the program should run fine. I had the same trouble. 73 Dan

This did the trick. The program runs fine now. Thanks to all for their help.

APR COMMENT: I guess the thing is just too big. I have been disturbing the EXE version in the upgrade files (not enough room in the distro copy). So look for compiled copies of both MAPFIX12.EXE and MAKEMAP1.exe. I assume that the EXE versions do not cause people the memory problem??? Use the F2 convert command with caution, however, until version MAPFIX13 comes out. If you must use it, do the conversion, immediately save the new map (under a new name) then reload it, and if all looks well, proceed.

12. Re: [APRSSIG:2013] HST file post

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 2 Jul 1995 13:12:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950702130758.981F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 30 Jun 1995, Edward W Rogers wrote:

> >Ive uploaded a .hst file called USCGA01.hst to the APRS TAPR FTP site
> today. Its an edited version (removed some local stations) of the file saved
> during an on water beta test of APRS for my US Coast Guard Aux. unit.
> >
> >The event was a Joint exercise with a USN Reserve Convoy Control Unit in
> which 7 Aux Vessels performed the role as if they were large sea going
> ships. As you can see by replaying the file we remained in close contact off
> Chicago.
> >
> >Toward end of event you will see N9LCI-6 simulate (at 15K) an Expanding
> Square Grid Search Pattern from a Datum point. if you zoom down to 1 mile
> range at center of pattern and put up range rings note how well APRS saves a
> SAR (search and rescue) track history.
> >
> >If anyone else on sig is involved in either CAP,USCGAUX or SAR type
> evolutions and wants to exchange ideas lets talk.
> >Ed
> >N9LCI
> >Aboard the S/V vessel SAOIRSE

APR REPLY: If anyone knows the inside track and can figure out how to get APRS accepted as a legal format permitted on the new channel 70 marine band digital channel, it would sure open up a lot of possibilities for SAR in the boating world. I think strong demos like

the above to the right CG personnel might make the trick. The CG can just say "OK" if they wanted too, (i think).

13. Re: [APRSSIG:2014] (Fwd) Colorado maps needed / wanted

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 2 Jul 1995 13:21:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950702131431.981G-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 30 Jun 1995, Art Smith wrote:

> Just downloaded 7, not registered yet. The Colorado maps I
> downloaded as part of APRS7.zip are useless for Colorado, no detail.
>
> Art Smith - KB1TX (303)270-3757
> als@ceis.hsc.colorado.edu or SmithAL@IX.netcom.com

APR REPLY: For the last several versions, and for the foreseeable future, I am trying to eliminate most 64 mile and smaller maps from the standard APRSxx.zip DISTRO. The removed maps are being moved to the REGIONAL MAP files such as E, SE, C, and Wmapsxx.zip. This process will make the DISTRO file smaller, and the regional map files larger.

Each time that I remove a 64 mile map from the USA distro, I bring in its interstates and its major RED roads into the next higher 256 mile map. You will notice that the ARLAMSAL.map is now VERY full of roads. I have also done this to OH-MI-WV.map and am now doing IAILINMO.map.

FOR THIS REASON, make sure EVERYONE that is new to APRS understands that they MUST also get their REGIONAL or LOCAL map distributions, or they are missing all their local maps.

14. Re: [APRSSIG:2033] APRS WX/U-II Help

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 2 Jul 1995 13:46:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950702134505.981L-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Sun, 2 Jul 1995 N9VJQ@aol.com wrote:

> My intention was to make a mobile WX APRS/U-II reporting station using the
> Gridpad, KPC-3, U-II, etc.
>
> When the U-II is plugged into COM 1 and the TNC is to COM 2 of my 386,
> everything works fine. The TNC puts out WX info supplied by the U-II. I
> just can't use my mouse. Oh, well!
>
> But when I plug in the HSP switch to the GRIDPAD, and try to hook the U-II to
> it, here's what happens:

APR: It aint gonna work. The HSP only works cuz teh software is looking for both TNC and GPS data on the same port. The U-II data is just asccii characters, and it is not easy to tell which is domming from which. So, for now HSP is only for GPS unit sharing...

15. Mapfix

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Sun, 2 Jul 1995 11:49:34 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.950702114129.9413A-100000@draco.bison.mb.ca>
Rendered body type: text/plain

Hi'ya All!

I finally picked up 7b yesterday but when I went to use Mapfix12 it crashed before it even got started! After seeing the first screen which shows the changes each upgrade, it crashes back to QBasic with an "Out of Memory" error and lands the cursor on the last DIM statement. Now, I did save the previous messages on deleting PRINT statements, but that has not helped. I have been using Mapfix68e with no problems (other than running out of memory if I load a map with lots of points). I am running a 386 with 2M of RAM.

If someone has a cure, great. Otherwise, I'll just go back to 68e and try to find ways to reprogram the thing more efficiently! :-)

Michael
--
Michael Markmann VE4MJM |
ve4mjm@draco.bison.mb.ca (Internet) |
ve4mjm@ve4umr.ampr.org (Internet) | ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25) | Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...

16. Re: [APRSSIG:2028] Re: My setup?

From: JKANDEL@umiami.ir.miami.edu
Date: Sun, 02 Jul 1995 19:06:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HSELTFQEV6AAVPKE@umiami.ir.miami.edu>
Rendered body type: text/plain

The new HP is the 1000CX.
Joel, KI4T
jkandel@gate.com

17. ILMAPS01.ZIP

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 2 Jul 1995 19:08:37 -0400 (EDT)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9507021937.A9767-a100000@acme>
Rendered body type: text/plain

I have collected (and made a few) about 24 different maps of
Illinois and surrounding areas, written up a maplist.il for those maps,
and uploaded them all in a file call ILMAPS01.ZIP to both my BBS and
ARN BBS.

If someone would be kind enough to upload them to TAPR.ORG
for others to gain access via internet, it would be appreciated.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Packet address: KB8JX0@W8CQK.#CMH.OH.USA
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 137th most knowledgable person about A.P.R.S.

18. TNC for sale

From: callldrin@sierra.net (Chuck Alldrin)
Date: Sun, 2 Jul 1995 17:17:08 -0700
To: aprssig@tapr.org
Message-ID: <199507030017.AA27216@diamond.sierra.net>
Rendered body type: text/plain

I have a PacComm Tiny-2 MK-2 TNC for sale.

It is less than 6 months old. Has the new ROM, works directly off of GPS/LORAN.

This unit is surplus to my needs at this time.

Have all manuals and docs for the TNC.

Price \$100.00 or best offer. Also have PacComm HSP cable for \$20.00

Chuck Alldrin KN6JS Chico, CA

(916) 899-1835

Email callldrin@sierra.net

73 and have a :-) day

19. Re: [APRSSIG:1972] RE: Garmin45 ver ??

From: quarry@q.continuum.net (Chip Griffin)
Date: Sun, 2 Jul 1995 23:02:45 -0400
To: aprssig@tapr.org
Message-ID: <v01510103ac1d0c97d2b3@[199.0.52.57]>
Rendered body type: text/plain

>>From: W2ic@aol.com
>>
>>New user of aprssig...!! anyone know the latested ver of software for the
>>Garmin45 ??...Thanks ..The OM...
>>
>On a Garmin GPS-45 purchased last week from West Marine here in Dallas, the
>software version is 2.40. They had at least one other unit at 2.37.

Does anyone know if you can get the software upgraded?

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

```
-----+-----
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)
griffge@mp.nu.com      | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com         |
```

20. WX report format not flex

From: jeff.brenton@espi.com
Date: Sun, 02 Jul 95 23:03:10 -0500
To: aprssig@tapr.org
Message-ID: <9507022303.0WDV106@espi.com>
Rendered body type: text/plain

Bob, I made the change to put the /R and /P fields immediately following the /T field, but I found that your weather report parser is more "fixed format" than that; I had moved the /B barometric field out of the middle, and put it first... I now display "998" for the temperature!

So, despite having specifiers in front of variables which should be enough to allow for flexibility, I now know that the following MUST be in this order for APRS to work:

/cse/spd/T000/R000

I also have /P and /B fields I'm broadcasting - where can I put those on the line, so that APRS won't burp?

21. 1995 ARRL DCC (Papers Deadline)

From: Greg Jones <gjones@tenet.edu>
Date: Mon, 3 Jul 1995 03:48:03 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing), bbssig@tapr.org (BBS SIG mailing),
hfsig@tapr.org (HF SIG mailing), netsig@tapr.org (NETSIG mailing),
amsat-bb@amsat.org (AMSAT BB Mail Group), tapr-tnc@tapr.org
Message-ID: <199507030848.DAA31049@Leslie-Francis.tenet.edu>
Rendered body type: text/plain

1995 ARRL Digital Communications Conference
September 8-10th, 1995
Arlington, Texas (minutes from DFW airport)

***** PAPERS DEADLINE July 21st, 1995 *****

Anyone interested in digital communications is invited to submit a paper for publication in the Conference Proceedings. Presentation at the Conference is not required for publication. If you know of someone who is doing great things with digital communications, be sure to personally tell them about this! Papers are due by July 21, 1995, and should be submitted to Maty Weinberg, ARRL, 225 Main Street, Newington, CT 06111 or via the Internet to mweinberg@arrl.org. Please contact Maty for detailed format requirements.

Full text is available on the Internet:
FTP: ftp.tapr.org WWW: http://www.tapr.org/tapr E-Mail: tapr@tapr.org

The ARRL Digital Communications Conference is an international forum for radio amateurs in digital communications, networking, and related technologies to meet, publish their work, and present new ideas and techniques for discussion. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. The Digital Communications Conference is not just for the digital elite, but for digitally-orientated amateurs of all levels of experience.

The 1995 Digital Communications Conference will be held on September 8-10th, 1995 in Arlington, Texas. Arlington is just minutes away from the Dallas/Ft. Worth International Airport, which is located in the middle of the country, and airfares have never been cheaper for this

conveniently-located conference.

In addition to the presentation of papers on Saturday, two workshops will be held during the conference. On Friday, Keith Sproul, WU2Z, will hold a workshop on APRS packet-location software. Keith is the Chair of the TAPR APRS Special Interest Group, developer of the Macintosh version of APRS, and a leader in the area of APRS technology. This is a unique opportunity to gain insight into this fast growing new digital aspect of amateur operations that combines computers, packet radio, and GPS (Global Positioning Satellites). On Sunday, Dewayne Hendricks, WD8DZP, will conduct a workshop focusing on a survey of Personal Communications Systems and their applications and use in the Amateur Radio Service. Dewayne is an expert in the area of commercial wireless systems; his company WarpSpeed Imagineering, focuses on wireless Internet. This workshop presents an opportunity to learn how Personal Communications Technology (handheld and small business wireless systems) can be used in the amateur service.

Full information on the conference and hotel information can be obtained by contacting Tucson Amateur Packet Radio, 8987-309 E. Tanque Verde Road, Tucson, AZ 85749-9399. Phone: (817) 383-0000. Fax: (817) 566-2544. Internet: TAPR@TAPR.ORG <http://www.tapr.org/tapr>

Sincerely,

Greg Jones, WD5IVD - President, Tucson Amateur Packet Radio
Dave Wolf, W05H - President, Texas Packet Radio Society

22. Ross LCA-200 Loran

From: wileyj@mail.conservation.state.m@more.net
Date: Mon, 03 Jul 95 09:49:38
To: aprssig@tapr.org
Message-ID: <9507031505.AA0060@wileyj.mocons.gov>
Rendered body type: text/plain

I messed up and deleted the message posted here regarding the Ross Loran. I have a manual for that unit and would be willing to copy and send it to the person who needed it. Would the person who need this copy please email me your mailing address to jwiley@mail.more.net

Thanks. Jim Wiley N0ILB

23. Re: [APRSSIG:2031] Interfacing to ROSS LCA200 Loran

From: wileyj@mail.conservation.state.m@more.net
Date: Mon, 03 Jul 95 11:45:35
To: aprssig@tapr.org, seans@hq.jcic.org
Message-ID: <9507031648.AA0065@wileyj.mocons.gov>
Rendered body type: text/plain

Hello Sean,

I have the manual for a Ross 200 Loran. If you will send me a mailing address, I will copy my manual (or at least the pertinent parts) and send you a copy.

Jim - N0ILB - jwiley@mail.more.net

24. Re: [APRSSIG:2037] Re: (Fwd) Colorado maps needed / wanted

From: "Art Smith" <ALS@CEIS.HSC.Colorado.edu>
Date: Mon, 3 Jul 1995 11:04:59 MST-0700
To: aprssig@tapr.org
Message-ID: <MAILQUEUE-101.950703110459.352@CEIS.HSC.Colorado.edu>
Rendered body type: text/plain

Bob:

Apparently there never have been any detailed road maps of Colorado in PC format. There are Mac maps, but no PC.

The few persons playing with APRS here in Denver area on PC's have confirmed that they also have found no detailed PC maps.

I have not figured out how to get the I-25 corridor from Ft. Collins to the north to Pueblo to the south from the regional maps you refer to. I guess Denver falls off the edges of all the maps! Or, something went wrong when I tried to download "Central" maps. The CODENVER.MAP appears to be, and is reported to be by the other users, the only PC map available, and is the one I remarked on as unuseable.

Our Edge Of Space Science (E0SS) balloon trackers use the MAC maps,

and they are fine. Good road detail down to the local street level. We have a launch coming up the end of the month so maybe I'll get more info then.

FYI the Denver Public Works Department is "testing" a APRS type system to keep track of their trucks. Unfortunately the real estate plot maps of downtown Denver appear to have errors of closure from years ago. DPW seems to have a system running that gives them the correction for GIS that allows them to find these 15 foot errors. US West also has location problems with their valts in the streets, drawings vs. GPS!

The new surveying techniques using GPS have definately shown up the errors on a lot of the old surveys!

At least for now, APRS for tracking vehicles or people at events is on hold until we can find some maps! I'll poke around on the internet to see if I can find anything. The TIGER location is always busy, but maybe at midnight I'll get something that can be converted into something that APRS can use.

Art Smith - KB1TX
Facilities Engineer, Engineering Services
University Hospital, Denver, Colorado, USA
Voice - (303)270-3757 / FAX - (303)270-4710
als@ceis.hsc.colorado.edu or SmithAL@IX.netcom.com

25. KPC3 LTRACK BUFFER ??

From: W2ic@aol.com
Date: Mon, 3 Jul 1995 13:24:20 -0400
To: APRSSIG@tapr.org
Message-ID: <950703132418_24471327@aol.com>
Rendered body type: text/plain

Looking for info on method to make maps from data stored in the Ltrack buffers, also method to clear these buffers using remote sysop cmd ??..THANKS The OM..

26. Re: [APRSSIG:2049] KPC3 LTRACK BUFFER ??

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 3 Jul 1995 16:04:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950703155902.4303B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 3 Jul 1995 W2ic@aol.com wrote:

>

> Looking for info on method to make maps from data stored in the Ltrack
> buffers, also method to clear these buffers using remote sysop cmd ??..THANKS

RUN Copy the data into a DOS text file. Then run GPStoHST.bas to convert NMEA data to the APRS track history format. Then simply call up that track history file within the MAPFIX.bas program using the alt-G command. Then draw new roads over the pink plotted circles of the track history.

I believe the GPStoHST.bas is looking for GGA data, you may need to modify the parsing in it if you are using RMC. DOES ANYONE WANT TO FIXUP THIS PROGRAM TO BE MORE UNIVERSAL, AND USER FREINDLY???

27. FIX TOO MUCH JUNK ON SIG

From: DDOBBINS@aol.com
Date: Mon, 3 Jul 1995 17:10:54 -0400
To: aprssig@tapr.org
Message-ID: <950703171027_107248993@aol.com>
Rendered body type: text/plain

I'm about to UNSUBSCRIBE from my favorite SIG. Here's why:

- There are alot of message responses to specific inquiries being answered to the whole SIG, vice just the person who made the inquiry. Results: Lots and lots of responses that I have to IGNORE, which takes 3-4 mins a day flagging them one by one.

I don't want to leave, but know many of you are experiencing the same dilemma. I'll bet those who have UNSUBSCRIBED, if queried, would tell you the same reason.

Recommendation: Let's not flood the SIG with too many responses. Direct your

response back to the originator of the message, vice the whole SIG. This is going to take the effort of all, but it's an easy effort. Please help. Otherwise, it's been nice knowing you, but I just don't have the time to spend on the SIG everyday, especially when it's time IGNORING messages. Too bad, I really enjoyed the comments on APRS in the sailplanes, and other interesting uses.

Aloha, Dave, WH6YC, in Hawaii. APRS on 145.05, digi thru AH6CP-1.

28. Re: [APRSSIG:2051] FIX TOO MUCH JUNK ON SIG

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 3 Jul 1995 18:36:10 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507032336.SAA12861@solar.cs.tamu.edu>
Rendered body type: text/plain

What you're asking for is NOT something wasily done. A large percentage of the users of the "sig" (it's actually a listserver, but the BBS folken are unable to comprehend that) fail with great regularity to include their e-mail addresses. Further, TAPR has elected, improperly in my estimation, to modify the headers in the listserv parameters, so that a valid Reply to: RFC822 (and subsequent modifications) header is either discarded or changed to direct all replies back to the group. That makes it a real pain to track down some of these folks, who may not have a real internet address, anyway.

You haven't got a proper name in your header. this has the serendipitous outcome of allowing me to find your e-mail address. Actually, I'd prefer this error to the header rewrite fubar.

And, really, to some extent I must agree with you. There are a number of folks who reply with info that is either untimely, or incorrect. Or repetitious. I've been known to send "old" info, but I tend to see >150 messages on a good day, and frequently more than that.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

29. Re: [APRSSIG:2051] FIX TOO MUCH JUNK ON SIG

From: W2H0B@aol.com
Date: Mon, 3 Jul 1995 21:31:38 -0400
To: aprssig@tapr.org
Message-ID: <950703213137_107387190@aol.com>
Rendered body type: text/plain

This is not a flame and please don't flame me, but...

APRS is such a multi-faceted program, there are going to be topics that pass through the SIG that are not of interest to everyone, but I vote that answers to inquiries NOT be posted back to the originator-only. Those responses are of interest to everyone experiencing "that" particular anomaly with the program and a "general" answer via the SIG helps alleviate the same questions from multiple users.

It may be that any ONE person might not be happy with ALL the stuff, please don't take it out on any of the rest of us just because that person doesn't have the time to handle certain messages passing through the SIG. This is all good stuff. I think there are message parsing programs that can expediently eliminate unwanted messages.

I, for one, am interested in learning more about RDF'ing, but haven't yet dug into it. I'm heavy into MAPS, GPS and WX, but I still want to see what all the other hoopla is about! I agree that personal replies should go directly to the originator, but I enjoy seeing the other generic stuff.
^^^^^^^^

I reply to this message in the kindest of terms... I mean to offend no one... no yelling... only MH0! I had to say it... Thanks for listening. 73

Boyd w2hob@aol.com

30. [APRSSIG:2051] FIX TOO MUCH J

From: jeff.brenton@espi.com
Date: Mon, 03 Jul 95 20:48:39 -0500
To: aprssig@tapr.org
Message-ID: <9507032048.0T8H816@espi.com>
Rendered body type: text/plain

I disagree - the equivalent of making "private" replies to questions INCREASES the number of repeats of the question - "No one ever answered so-and-so when he/she asked this". Plus, there are a LOT of people who subscribe to lists, as well as join forums/roundtables/whatever on various services, who NEVER post messages. They still want answers to their questions, though, and get them by reading messages directed to others who had the "nerve" to post their questions.

I administer a forum on CompuServe, and the ratio of "lurkers" (who rarely or never post messages) to "active participants" (two or more message per month) is in excess of 100 to 1; TRULY active members (10 or more messages/month) are 1 or 2 in a THOUSAND. But, forums are VERY valuable; in many, I get sticky questions answered simply by reading the already-posted messages.

True, a mailing list doesn't have the persistence of a forum (messages last here as long as it takes to transmit them, vs. 2 to 60 days on other services), but reading the traffic can get most problems addressed within a week or so.

31. usgs2map.bas

From: moyers@ibm.net
Date: Tue, 04 Jul 95 01:04:00
To: aprssig@tapr.org
Message-ID: <9507040809.AA0023@slip37-136.il.us.ibm.net>
Rendered body type: text/plain

I am having trouble creating maps from the gra files download from Internet in the Southern Mississippi area. USGS2MAP starts creating the map political boundaries and then hangs asking for any key to be stuck to continue. After this the program exits back to qbasic. Any suggestions??

73 John Moyers N4QEA
moyers@ibm.net

32. Re: [APRSSIG:2051] FIX TOO MUCH JUNK ON SIG

From: John Maca <jmaca@phoenix.phoenix.net>
Date: Tue, 4 Jul 1995 00:43:25 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950704003107.16514C-100000@phoenix.phoenix.net>
Rendered body type: text/plain

I have to agree with Dave. The APRSSIG is taking up the majority of the mail I receive. I've come close on several occasions to unsubscribing. Many of the questions have been asked before and many of the responses are the same though from different people. Although this is good for newbies trying to learn, it adds up to a lot of mail I end up deleting without ever reading.

Dave's solution would keep people who might be interested in the reply (say for help on mapfix or something) from getting useful info. I think a better alternative is to migrate to a newsgroup. Maybe rec.radio.aprs or something. That way responses would be grouped under a particular topic.

Comments?

John Maca
AB5SS
jmaca@phoenix.net

On Mon, 3 Jul 1995 DDOBBINS@aol.com wrote:

> I'm about to UNSUBSCRIBE from my favorite SIG. Here's why:
> - There are alot of message responses to specific inquiries being
> answered to the whole SIG, vice just the person who made the inquiry.
> Results: Lots and lots of responses that I have to IGNORE, which takes
> 3-4 mins a day flagging them one by one.
etc.....

33. Re: [APRSSIG:2056] Re: FIX TOO MUCH JUNK ON SIG

From: Andy Farnsworth <farnsaw@BELMONT.EDU>
Date: Tue, 04 Jul 1995 01:28:49 -0500
To: aprssig@tapr.org
Message-ID: <9507040128.AA49195@andy.belmont.edu>
Rendered body type: text/plain

> I have to agree with Dave. The APRSSIG is taking up the majority of
> the mail I receive. I've come close on several occasions to
> unsubscribing. Many of the questions have been asked before and many
> of the responses are the same though from different people. Although
> this is good for newbees trying to learn, it adds up to a lot of mail
> I end up deleting without ever reading.

I am new to APRS but am experienced in the world of the internet. A good solution to repeated questions is to create a FAQ (Frequently Asked Questions) Mailing and post it to the list about once a month. This allows most duplicate questions to be answered in one mailing. Also the FAQ can be mailed directly to the person without worries that anyone is missing something, while maintaining list cleanliness. When the FAQ comes out, regular subscribers can just delete the one message per month and not the hundred or so that rehash the same topic.

More as it happens...

34. Re: [APRSSIG:2057] Re: FIX TOO MUCH JUNK ON SIG

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Tue, 4 Jul 1995 07:20:01 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507041220.HAA17850@solar.cs.tamu.edu>
Rendered body type: text/plain

Andy Farnsworth sez:

>
> I am new to APRS but am experienced in the world of the internet. A good
> solution to repeated questions is to create a FAQ (Frequently Asked Questions)
> Mailing and post it to the list about once a month. This allows most
> duplicate questions to be answered in one mailing. Also the FAQ can be mailed
> directly to the person without worries that anyone is missing something, while
> maintaining list cleanliness. When the FAQ comes out, regular subscribers can
> just delete the one message per month and not the hundred or so that rehash
> the same topic.
>
> More as it happens...

I'd be willing to write a descriptor of Differential GPS for a FAQ...

73, gerry

35. Re: [APRSSIG:2054] FIX TOO MUCH J

From: N9VJQ@aol.com
Date: Tue, 4 Jul 1995 08:58:49 -0400
To: aprssig@tapr.org
Message-ID: <950704085846_107602442@aol.com>
Rendered body type: text/plain

In a message dated 95-07-03 23:12:21 EDT, you write:

>I disagree - the equivalent of making "private" replies to questions
>INCREASES
>the number of repeats of the question - "No one ever answered so-and-so when
>he/she asked this". Plus, there are a LOT of people who subscribe to lists,
>as
>well as join forums/roundtables/whatever on various services, who NEVER post
>messages. They still want answers to their questions, though, and get them
>by
>reading messages directed to others who had the "nerve" to post their
>questions.

My vote is leave it the way it is. AOL's FlashSessions let's me download the whole day's mail in less than a minute. I can read all the mail offline. I can delete what I don't want to keep.

And as I get further into APRS, I can go back to mail on past subjects that I have questions on.

And one of these days I may get a Mac...and that'll give me a whole new batch of mail to read. :-)

barry

36. Re: [APRSSIG:2051] FIX TOO MUCH JUNK ON SIG

From: dvelez@ix.netcom.com (Daniel Velez)
 Date: Tue, 4 Jul 1995 17:17:28 -0700
 To: aprssig@tapr.org
 Message-ID: <199507050017.RAA17233@ix3.ix.netcom.com>
 Rendered body type: text/plain

Aloha Dave...this is what being on a mailing list is all about. It's supposed to be like a "discussion" among those with a common interest. I learn ALOT from just "listening" and I suspect others do as well. So stick around...or if you want, wait for the Cliff Notes.

73 de Dan

--

 dvelez@ix.netcom.com or N4WZR@WD4MIZ.VA
 A0000GA! A0000GA! DIVE! DIVE! DIVE!

37. SUMMA Summasketch plus tablet

From: gphowell@soulcage.inmind.com (Geep Howell)
 Date: Tue, 04 Jul 95 20:49:54 EDT
 To: aprssig@tapr.org
 Message-ID: <199507050052.AAA05959@soulcage.inmind.com>
 Rendered body type: text/plain

Anybody had any luck with getting this digitizer to run with MAPFIIXER? I picked the one that I have up cheap at a hamfest but no docs -- do have utility programs but can't seem to get it to talk to the maps program. Any suggestions welcomed!

By the way, in regard to too much traffic on the list, I learn a lot by \reading replys, and it doesn't take long to download them from my server -- running OS2 and PMMail -- I could see people having problems if they had to stay connected and read each one. Anyway, the FAQ idea sounds like a good one, but I would just as soon see the format here remain unchanged. Thanks to all you knowledgeable folks who take the time to conjure up answers for those of us who don't know 'em! 73 all de Geep WA4RTS in Lynchburg VA

38. Power Height Gain

From: rwf@mindspring.com (rwf)
 Date: Wed, 5 Jul 1995 00:56:56 -0400
 To: aprssig@tapr.org
 Message-ID: <199507050456.AAA05180@dylan.mindspring.com>
 Rendered body type: text/plain

Bob- Some confusion is going on in our local area. Many users are posting PHG figures of 1280 ft. They seem to think that the H in PHG is for height above SEA LEVEL. Isn't it supposed to be height above average terrain? Pls clarify this.

Our height above Sea Level is approx 1000 ft. When they have a small hill and tower of, say, 200 ft or so, they should enter 200 ft or so- correct? NOT 1200 ft?

It would really help if you would write something to explain this better. If you post it here, I'll pass it along.

These guys have range circles that are gigantic. Even larger than the WIDE digi nearby!

Thanks- Ralph
 N4NEQ
 rwf@mindspring.com

39. Re: [APRSSIG:2051] FIX TOO MUCH JUNK ON SIG

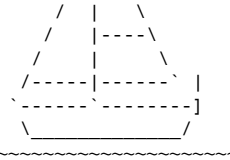
From: paul@paccomm.com
 Date: Wed, 05 Jul 95 08:12:54 UTC
 To: aprssig@tapr.org
 Message-ID: <6036@paccomm.com>
 Rendered body type: text/plain

That's versus please use your language correctly

~~~~~  
 Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980 .  
 Fax:+1 (813) 872-8696 /| \ \   
 Views expressed here are not necessarily those of PacComm / |--\

Don't surf the net, SAIL it!  
Captain of S/V "Spindrift", Dunedin, FL.  
Tall rig (58'), Winged Keel (4' 2"), full batten main

PacComm Packet Radio Systems  
4413 N. Hesperides St., Tampa, FL 33614-7618



---

## 40. alternate map lists

From: FredMuller@aol.com  
Date: Wed, 5 Jul 1995 11:11:22 -0400  
To: aprssig@tapr.org  
Message-ID: <950705111122\_108211464@aol.com>  
Rendered body type: text/plain

I have a question about bringing up alternate map lists. I have several files of Calif. local maps which I don't seem to be able to access by simply paging down to that scale. Any help would be appreciated. I have tried the map commands and alt map/ cal.maps w/o success.  
thanks Fred Muller- WA6LQL

---

## 41. Re: [APRSSIG:2062] Power Height Gain

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Wed, 5 Jul 1995 11:57:16 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950705114605.4053F-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Wed, 5 Jul 1995, rfw wrote:

> Bob- Some confusion is going on in our local area. Many users are posting  
> PHG figures of 1280 ft. They seem to think that the H in PHG is for height  
> above SEA LEVEL. Isn't it supposed to be height above average terrain? Pls  
> clarify this.

REPLY: Yes, it always amazes me how any HAM can think that Height above SEALEVEL means anything of value. It is HAAT which every VHF user should understand, and if he doesn't, then explain it to him, hi hi. Although saying "it's the height of your antenna tower" is closer, there are still idiots with 50 foot towers down in valleys that think their HAAT is 50 when in fact it is BELOW ZERO!

Good luck, hi hi. People with incorrect PHG are doing the net a disservice by confusing the laws of propagation, hi hi. Again, the PHG display is only a first order approximation assuming a relatively smooth earth. People that have obstructions and hills should further reduce their HAAT or offset the circle in the opposite direction to give the best possible match to known propagation. If you CANNOT hit other stations which intersect YOUR circle, then your CIRCLE is too big.

If their circle still does not match reality, then tell users to reduce the circle size (height) until it does.

---

## 42. Re: [APRSSIG:2065] Re: Power Height Gain

From: paul@paccomm.com  
Date: Wed, 05 Jul 95 13:03:43 UTC  
To: aprssig@tapr.org  
Message-ID: <6046@paccomm.com>  
Rendered body type: text/plain

About HAAT.

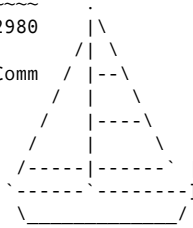
You'll probably find that most amateurs haven't been exposed to calculating HAAT (unlike some of us old repeater builders - yes, I'm guilty of building a couple of 'em, but it's a long time ago now [16 years ago and they're still running]). I believe there's still a piece on this in the ARRL Handbook. You might explain this some more in your doc files, Bob, or refer them to the ARRL reference..... It involves running out 8 lines and marking HASL at various distances and then subtracting the average from your HASL and hopefully getting a positive number!!!!

My HAAT is about 3' and so is my HASL! <(:-)

If you're wondering, the < on top of my smiley is my Trimble Navigation baseball hat - keeps the sun off my bald head when at sea!!! Also, it's neat on shore for impressing the "chicks"..... it has a nice elaborate woven design in it.

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980
Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm
Don't surf the net, SAIL it!
Captain of S/V "Spindrift", Dunedin, FL.
Tall rig (58'), Winged Keel (4' 2"), full batten main

PacComm Packet Radio Systems
4413 N. Hesperides St., Tampa, FL 33614-7618
~~~~~



---

### 43. Use KAM Host mode?

From: jeff.brenton@espi.com  
Date: Wed, 05 Jul 95 14:51:23 -0500  
To: aprssig@tapr.org  
Message-ID: <9507051451.0KVCf05@espi.com>  
Rendered body type: text/plain

Watching APRS's status line, I see a lot of times when it has no idea what the state of the TNC is, hence it sends commands to disconnect when it isn't connected, or come out of converse mode when it's already in command mode, etc.

I have to deal with this, because I'm trying to feed APRS from a dual-port TNC, where the TNC is actually under the control of another computer; I just translate APRS's requests into Kantronics Host Mode strings, and Host Mode replies are translated into something APRS wants to see.

My suggestion is, why not take advantage of Host Mode, when available? It's simple - the commands are the same, except for having a header that says, "This is a command", and data has a header that says, "This is data, it is to be directed to this port, and it is for this channel (or unproto)". All Kantronics TNCs with semi-modern ROMs support Host Mode; it's been out since at least 1988.

Here's the jist of Host Mode:

All data/command blocks start with a 4-byte header, beginning with a FEND character (\$C0 in TAPR parlance). Next is either a 'C' (command) or 'D' (data) byte. Third byte is either '1' or '2', for the port. Fourth byte is the stream to use on that port - '0' means send it UNPROTO. You then put in the same data/command string you'd normally send, with a trailing FEND (\$C0) byte added.

Coming from the TNC, the string is \$C0, a status byte ('C' means this is a result message from a command, 'D' is data from a connected stream, 'M' is "monitored" [unproto] data, and 'S' means a connect status change), the port it came from ('1' or '2'), and the stream ('A' through 'Z' or '0') that it came from), then the same string that is sent in non-host mode, followed (again) by a \$C0 byte.

In my program, the switch from using "regular" mode to "Host Mode" involved just adding the header and trailer to the existing data being transmitted. I don't know if Bob or Keith want to "customize" their programs to Kantronic's Host Mode this intimately, although I would suspect that the AEA Host Mode is similar - only the lead-in and trailer strings would be different.....

---

\* UniQWK v3.3a\*

---

### 44. Re: [APRSSIG:2064] alternate map lists

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Wed, 5 Jul 1995 16:25:32 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950705162432.6456A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Wed, 5 Jul 1995 FredMuller@aol.com wrote:

> I have a question about bringing up alternate map lists. I have several files  
> of Calif. local maps which I don't seem to be able to access by simply paging  
> down to that scale. Any help would be appreciated. I have tried the map  
> commands and alt map/ cal.maps w/o success.

The command to change MAPLISTS is the FILE-CHANGE command. Sorry, it is NOT in the MAPS menu... there was no room for it there.

---

### 45. BETA test of 7d

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Wed, 5 Jul 1995 19:04:18 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950705182423.6829E-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain



This is NOT a finished release, but since I put it together, I figured I would post it on TAPR for ftp. It will NOT be on ARN BBBS, since it is just a beta test. A DF user in Calif finally hooked everything up and discovered that enabling GPS HSP mode overrides the DF interface, making it impossible to use APRS as a fully automated DF/GPS mobile unit. APRS7d fixes that. So now you can have a GPS input to your automatic DF mobile station. (TNC and GPS HSP on one port, DF on the other).

Also included in 7d is an attempt to permit different messages to use DIFFERENT DIGI paths. I was all excited about this, until I got it running and found out the following BIG problem:

A TNC (or at least the one I was using for testing) does NOT add the UNPROTO path until the INSTANT of transmission. This means that I can set up an UNPROTO path that is unique for a message, but I have to KEEP THAT UNPROTO path unchanged until AFTER the message packet is finally sent. This is an INDETERMINANT time, since the channel maybe busy and who knows how long until the packet is finally trasnmitted. SO I cant just change the UNPROTO, send the message line to the TNC, and then changee the UNPROTO back again. Also, for similar reasons, changing the path for ACKS is almost impossible.

So here is the way I implemented it:

1) If you use the SEND command, and enter W3XYZ/XX for the callsign, then APRS will scan the OPS-DIGI-LIST for a path to XX. If there is a path labeled XX, then that path will be used for THAT message.

2) I had to slightly change the format for saving the OPS-DIGI paths. So you will have to re-enter them with a SPACE and the word VIA prior to the digi list. IE: XX VIA DIGI1,DIGI2,DIGI3, etc.

3) Due to the problem noted above, the new path to XX will remain in the TNC, until the next scheduled transmission of ANY other packet from your station. If less than 5 Seconds has elapsed, AND the new packet is supposed to go somewhere else, then you will be put into a 5 SECOND DEAD HOLD to give time for the previous packet to hopefully be sent. IF it takes more than 5 secs for the packet to get transmitted, then you will see it probably go to your main path instead of the intended one.

SUMMARY: I live in the middle of 12 digipeaters. I see stuff from both ends, but until now, could only TALK in one direction or the other. With this capability, I can have my UNPROTO path set to the north east, but still have an outgoing message to a guy in the opposite direction. Of course my ACKS only go the main way, but whenever I get an incomming message from someone, I change my main path to his direction to be sure he gets an ack. And for my new dual direction outgoing messages, the assumption is that the receiving station is probably already sending things my way, or I wouldnt see him on my map.

If you can understand an live within these constraints, then you might find the /XX ability useful. But if you have 4 outgoing messages in 4 different dierctions, I guarantee you, that the 4 x 5 second DEAD DELAYS will not be pleasant. So use this feature with intelligence and caution. If you have 4 messages going one way, and 4 the other way, be sure to send them in a row. That way, there is only ONE shift of UNPROTO between the first 4 and the last 4, rather than 8 shifts at 5 seconds each!

Ignore the ALTPATH option in the OPS-DIGI menu for now. It is going to give you an ALternate UNPROTO path for your beacons and posits. BUT it is not finished, and does nothing.

So, since my TNC and serial port got fried in the last thunderstorm, Im gonna let anyone that wants to play with this multiple message rougin option give it a try. Feedback is welcome...

Particularly if you can determine if your TNC stores the UNPROTO path at the time the UI frame ENTERS the TNC, or when it is TRANSMITTED. To test this, use any terminal program, open up your squelch so your TNC sees carrier detect and holds off transmission. Then enter an UNPROTO path, enter a UI packet, then enter a different UNPROTO path, then close the squelch so the pakect is transmitted and see which UNPROTO path is used. To make it easy to see, use WIDE,NORTH and WIDE,SOUTH as your two paths so that your WIDE always digipeats it so you can see it.

---

## 46. Re: [APRSSIG:2067] Use KAM Host mode?

From: Larry Griffin <largriff@onramp.net>  
Date: Wed, 5 Jul 1995 18:32:12 -0500  
To: aprssig@tapr.org  
Message-ID: <199507052332.SAA26254@ns.onramp.net>  
Rendered body type: text/plain

<----- Begin Included Message ----->

From: jeff.brenton@espi.com  
Subject: [APRSSIG:2067] Use KAM Host mode?  
<snip>

My suggestion is, why not take advantage of Host Mode, when available?  
<----- End Included Message ----->

Host mode would also make it easy for APRS to allow connected QSOs instead of unproto QSOs, WITHOUT LOSING ANY POSITS during the connection! Multi-connects are even easy with Host mode. We could use a specific function key to jump from QSO to QSO or back to the map.

Any comments Bob?

-----  
                  | Internet: largriff@onramp.net  
Larry Griffin | Internet: ab5ge@amsat.org  
                  | AX25: ab5ge@w5ero.#wtx.tx.usa.noam  
-----

---

## 47. ILmaps01.zip caution

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Wed, 5 Jul 1995 21:54:55 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950705205718.7200B-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

I just unzipped ILmaps01.zip that was posted on tapr.org and found that it contains duplicate copies of many of my standard dsitro maps. Be sure to unzip this file into a separate directory and compare maps before placing them in your APRS system.

To solve this problem, I have removed the duplicate maps and re-packaged the group as ILmaps02.zip. It will be in the proper configuration for unzipping with PKUNZIP -d.

This re-emphasizes the guidance in README\MAPS.TXT on how to properly organize and zip up a state distro so that it does not cause confusion and problems. Good luck.

---

## 48. Test message

From: wnolle@ro.com (William Nolle)  
Date: Wed, 05 Jul 1995 21:22:51  
To: aprssig@tapr.org  
Message-ID: <199507060227.VAA17723@sh1.ro.com>  
Rendered body type: text/plain

Well switched providers and hope i did this right Hi.

Bill KE4EER  
wnolle@ro.com

---

## 49. Re: [APRSSIG:2062] Power Height Gain

From: Richard Amirault <amirault@laraby.tiac.net>  
Date: Wed, 5 Jul 1995 22:23:15 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSF.3.91.950705222123.29149C-100000@laraby.tiac.net>  
Rendered body type: text/plain

> Bob- Some confusion is going on in our local area. Many users are posting  
> PHG figures of 1280 ft. They seem to think that the H in PHG is for height  
> above SEA LEVEL. Isn't it supposed to be height above average terrain? Pls  
> clarify this.  
>  
> Our height above Sea Level is approx 1000 ft. When they have a small hill  
> and tower of, say, 200 ft or so, they should enter 200 ft or so- correct?  
> NOT 1200 ft?  
>

Yes, that is correct. But I hope Bob will answer as there seems to be a few folks in my area with a similar confusion too.

Richard Amirault                      N1JDU                      Boston, Massachusetts USA

## 50. APRS Hawaii maps updated

From: DDOBBINS@aol.com  
 Date: Wed, 5 Jul 1995 22:36:18 -0400  
 To: aprssig@tapr.org  
 Message-ID: <950705223454\_108683697@aol.com>  
 Rendered body type: text/plain

The July 95 edition of the State of Hawaii APRS maps (Hawaii, HIOahu, HIMauai, HIBigIsl and HIKauai .maps), plus a revised maplist.hi will be posted on the ARNBBS, and hopefully here on the SIG, as HIMAPS07.ZIP. We've just about completed GPS track histories and map editing of the Oahu map, and while visiting the Big Island last month I drove the entire island and GPS error corrected that map during a really wonder two-day visit. Enjoy, and if you're going to visit the Aloha state, bring your laptop and join us on 145.05, digi through AH6CP-1. Mahalo (thanks), Dave, WH6YC.

## 51. Maps

From: quarry@q.continuum.net (Chip Griffin)  
 Date: Wed, 5 Jul 1995 22:51:02 -0400  
 To: aprssig@tapr.org  
 Message-ID: <v01520d00ac20ff31e785@[199.0.52.57]>  
 Rendered body type: text/plain

I know Keith was working on some maps. I noticed there hadn't been any new ones there for a little time. Does anyone have any good detailed maps of CT, especially the New London County (Southeastern corner) area? I don't want to be pushy, I know Keith and Bob have been working VERY hard on updates/upgrades to their respective programs ...

Chip Griffin - President of Thames River Apple Users Group  
 System Operator of The Quarry (203-889-6427)

-----+-----  
 quarry@q.continuum.net | N1MIE@nlokk.ct (packet)  
 griffge@mp.nu.com | Chip@1:320/301.0 or .1 (fido)  
 emmet2@aol.com |

## 52. APRS IN SEATTLE?

From: DDOBBINS@aol.com  
 Date: Thu, 6 Jul 1995 02:54:30 -0400  
 To: aprssig@tapr.org  
 Message-ID: <950706025428\_108842191@aol.com>  
 Rendered body type: text/plain

Aloha de Dave, WH6YC. I'll be in the Bremerton-Seattle area from 17-30 July and wondering what, if any, APRS activity there is in the Pacific northwest? Please include point of contact, frequency, and digi's used. Thanks. I'll be GPS mobile occasionally and may be available to assist in GPS track histories for error correcting local area maps. I have the wasoundn and wasound maps already. Thanks, Dave, WH6YC.

## 53. Re: [APRSSIG:2069] BETA test of 7d

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
 Date: Thu, 6 Jul 1995 06:56:19 -0500  
 To: aprssig@tapr.org  
 Message-ID: <9507061156\_AA10034@omnifest.uwm.edu>  
 Rendered body type: text/plain

WOW!!! 7d already - and to think I knew you when you were only 6.7!  
 (and that was April - right?)  
 73 de Dave, N9UNR

## 54. Re: [APRSSIG:2051] FIX TOO MUCH JUNK ON SIG

From: gwyn@paccomm.com (Gwyn Reedy, WIBEL)  
 Date: Thu, 06 Jul 95 08:28:42 UTC  
 To: aprssig@tapr.org  
 Message-ID: <6078@paccomm.com>  
 Rendered body type: text/plain

I rather enjoy the Q & A interchanges. The time spent deleting is made worthwhile is getting a better view of what is going on.

-----  
 Gwyn Reedy, WIBEL gwyn@paccomm.com WIBEL@amsat.org

+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

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## 55. Re: [APRSSIG:2076] APRS IN SEATTLE?

From: SDRoe@aol.com  
Date: Thu, 6 Jul 1995 11:52:18 -0400  
To: aprssig@tapr.org  
Message-ID: <950706115217\_109075749@aol.com>  
Rendered body type: text/plain

Hi Dave DE Sam KB7QQQ.

I live in Puyallup about 40 miles south of Seattle. We have a net started here but we have aonly been going for about a month and have lots of problems to work out. We are trying to develop GPS tracking for Search & Rescue in Pierce County (and hopefully all of Western Washington)

We are currently using 145.090 but may have to move this as more people come into the net. It is also a BBS freq. We have 5 or 6 regular operators in Pierce County and one in Kent and one in Bellevue. When I am mobile I use the call KB7QQQ-2 as it does not put up the car and take up so much space on the map.

The WASOUND maps are great but not very detailed. WE are working on improving these. Most evenings we can be found on 146.460 simplex and I also monitor the Pierce County Emergency Repeater 145.370 - (136.5).

Will be looking forward to you showing up on our maps.

73  
Sam Roe (KB7QQQ)  
SDRoe@aol.com  
4707.25N / 12215.07W

---

## 56. Re: [APRSSIG:2078] Re: FIX TOO MUCH JUNK ON SIG

From: debell@heartland.bradley.edu (Darrell Bell)  
Date: Thu, 6 Jul 95 10:57:17 CDT  
To: aprssig@tapr.org  
Message-ID: <9507061557.AA07456@heartland.bradley.edu>  
Rendered body type: text/plain

I do delete about 95% but do enjoy reading what I see. I find it is easy to quickly check out what is on, delete what I can't use and get on with it. I hope it remains the same. We all have a choice.... turn it off, delete it out and etc. for other choices.  
thanks, Darrell

---

## 57. DF SINGLE PORT MODE!

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 6 Jul 1995 14:24:55 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: tony\_flusche@compuware.com  
Message-ID: <Pine.SUN.3.91.950706140548.11947E-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Well, I finally have a person testing the DF interface (tony) so I did a little work on DF (and added a few features useful for mobiles in general too)

I added a DF single Port mode (DFSP)...! (not posted yet, cuz tony has a dual port and doesnt need it, so Ill keep testing until someone else is ready to go with the DF/GPS/HSP combination.

The only problem is that it will require modifying the N7LUE interface from 2400 to 4800 baud to match the GPS and TNC in HSP mode. I dont have a schematic of the N7LUE interface, so someone needs to figure that out... I guess it might work at 2400 if you have a GPS that can change to 2400 to match. (TNC also).

In the process, i added a INPUT-SAVE-my command so that when you do get a good fix, you press tha one command and it copies your posit (with DF info) into an OBJECT so that it stays PUT on the map while you keep going. This way, you can drive to three or more locations and retain all previous fixes on the map for triangulation (not realllly needed witha DF unit, but the command is in general a good addition for just marking posits while driving.... Also added F8 key to force an HSP update at anytime. Useful for getting a POSIT just before a DF fix....

This is exciting! But boy is it getting complex!  
The DFSP mode adds a DPDT push button switch to temporarily switch in the DF unit for a fix (about 5 seconds). It can be wired to a back-to-back pair of DB-9's so that an unmodified HSP switch can be used with or

without it. We need some beta testers...

Since we still dont seem to have any real full time Doppler DF'ers on here, if anyone knows of any rabid DFers that dont know about APRS, then let them know that the maps are a'waitin! Is there a DF SIG somewhere that could use a little APRS advertisement?

---

## 58. 7d BETA Problem

From: W2H0B@aol.com  
Date: Thu, 6 Jul 1995 21:20:50 -0400  
To: aprssig@tapr.org  
Message-ID: <950706211959\_26821183@aol.com>  
Rendered body type: text/plain

I have it running but haven't played with 7d a lot yet. One of my Southern NJ buddies reports he cannot save digi paths. I did not ask him about his procedure, but he CAN save digi paths in 7b... problem Bob?

73 de Boyd AR

---

## 59. KPC-3 L TRACK Buffer

From: RonN9QGS@aol.com  
Date: Thu, 6 Jul 1995 22:31:46 -0400  
To: aprssig@tapr.org  
Message-ID: <950706222626\_109513580@aol.com>  
Rendered body type: text/plain

Hi, I believe I am setting up the L Track command correctly by specifying my maildrop as N9QGS-1 and setting its size to 50K and the setting my Ltrack to the correct sentence and the size, i.e. 20K. But how do I retrieve this? I thought you connected to your mail drop and I did the command specified by the help menu , and it just gives me the last recorded sentence???! Isn't it suppose to list a whole bunch? Your help is appreciated, If it worked correctly I should have a whole trip I did on a balloon launch.

Ron

---

## 60. Re: [APRSSIG:2082] 7d BETA Problem

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 6 Jul 1995 23:03:34 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950706225835.15670A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Thu, 6 Jul 1995 W2H0B@aol.com wrote:

> One of my Southern NJ buddies reports he cannot save digi paths.

APR REPLY: 7d was a beta test as noted here on the sig for a DF interface problem only. It has NO documentation, the differences were only posted here. In that message it was noted that the FORMAT FOR THE DIGI PATHS WAS DIFFERENT. HE MUST SPECIFY THE PATH XX as FOLLOWS:

XX VIA DIGI1,DIGI2,etc

Vice the old way of XX,DIGI1,DIGI2,etc

---

## 61. SPACE APRS EXPERIMENT

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 6 Jul 1995 23:33:42 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950706230616.15670B-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

There may soon be an opportunity to test APRS as a ground station plotting tool during an upcoming space event. In this experiment, APRS stations will be permitted to transmit UI frames for digipeat via a space borne TNC digipeater. If this experiment is successful, it may be used to encourage the use of APRS type UI position reports from schools participating in the AMATEUR SATELLITE program. Reception and plotting of short single packet UI position reports could not only be a more efficient use of a space borne TNC, but could also improve the visualization of packet radio to students. For a more indepth discussion of this application, see the APRS\README\SPACE.txt file included in APRS.

NOTE!!! This opportunity will be LIMITED TO LISTED MEMBERS of the APRSSIG Special Interest GROUP ONLY. This restriction is necessary to have a known and measurable baseline of stations, and to also permit a

channel for INSTANT feedback and control of the experiment. This PRE-announcement is being made to encourage APRSSIG members to familiarize themselves with the techniques and operating procedures outlined in the SPACE.txt file.

Particularly, it is important to make your packets as short as possible. This is easily accomplished with the alt-SETUP-MODES-GRIDSq mode. In this mode your grid square is placed at the beginning of both your BEACON and POSIT. In APRS7b there is an additional SPACE mode which will sound an ALARM if your packet is successfully digipeated.

PLEASE TEST AND BECOME FAMILIAR WITH THE grid square and SPACE modes in your particular version and how to control your transmit rate. Once the test begins, our objective is to see a successful digipeat of our posits. Additional messages, objects and bulletins are NOT encouraged.

REPEAT: To make this test a measurable experiment we ask that you keep discussions of it within the SIG for now. Watch here for more news when it becomes available!

---

## 62. Re: [APRSSIG:2083] KPC-3 L TRACK Buffer

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Thu, 6 Jul 1995 22:55:31 -0500  
To: aprssig@tapr.org  
Cc: RonN9QGS@aol.com  
Message-ID: <v01520d02ac225f85d073@[199.1.11.183]>  
Rendered body type: text/plain

>Hi, I believe I am setting up the L Track command correctly by specifying my  
>maildrop as N9QGS-1 and setting its size to 50K and the setting my Ltrack to  
>the correct sentence and the size, i.e. 20K, But how do I retrieve this? I  
>thought you connected to your mail drop and I did the command specified by  
>the help menu , and it just gives me the last recorded sentence???!?! Isn't  
>it suppose to list a whole bunch? Your help is appreciated, If it worked  
>correctly I should have a whole trip I did on a balloon launch.

>Ron

=====

Setting the buffer storage inside the TNC to save the GPS data.  
Do only once before getting data, as I think this clears the

buffer.

LTRACK

LTRACK 5 LT1 LT2 LT3 LT4 or

LTRACK 5 LT2 for only saving the LT2 data which is \$GPRMC per  
my GPSHEAD setting.

With the standard 32K of memory 17 is the largest I could set this value.  
Note the data is stored in the buffer at the rate set by the BLT beacon  
command not the rate  
the GPS sends data to the TNC.

INTERFACE GPS when the TNC is next powered off/on it will stat  
in GPS mode.

INTFACE {TERMINAL | NEWUSER | BBS | KISS | HOST |  
GPS}

I also use the Software CD setting.

CD SOFTWARE

-----  
How to READ GPS track DATA from the TNC buffer:

login to the TNC BBS as callsign-1

LTRack n [string] DISPLAY LAST n MSGS IN TRACK BUFFER

LTRACK 50 Read 50 lines of data from the buffer

LTRACK 50 \$GPGGA Read 50 lines of \$GPGGA data from the buffer.

The data is dumped back in LIFO format (last in first out) that is it is  
backward of

what you are expecting for a trip log when you play back using APRS.

-----

The other settings you must do to the kpc-3:

Setting for which NEMA sentences you want to record or beacon  
You get to set up to 4. I use only two

GPSHEAD  
1 \$GPGGA

```
2 $GPRMC
3
4
```

The LT buffer filled with real GPS data

```
LT
1 $GPGGA,064301,3250.743,N,09645.669,W,1,05,2.6,236.7,M,-24.8,M,,*71
2 $GPRMC,064303,A,3250.742,N,09645.668,W,002.4,121.2,040695,,*06
3
4
```

The LT buffer when the GPS is not seeing any satellites.

```
LT
1 $GPGGA,100552,,,,,0,00,,,M,,,*65
2 $GPRMC,100551,V,,,,,,020695,,*39
3
4
```

Setting the beacon time for the GPS data

I use \$GPGGA two times a min and \$GPRMC once a min.

Note the offset so RELAY stations have time to respond

```
BLT
1 EVERY 00:00:30
2 EVERY 00:01:10
3 EVERY 00:00:00
4 EVERY 00:00:00
```

Setting for the output APRS format

```
LTP
1 APRSM VIA RELAY
2 APRSM VIA RELAY,WIDE
3 NONE
4 NONE
```

Hope that helps.

Bob kc5ejk@onramp.net or kc5ejk@amsat.org

---

### 63. (U)GASRMIN 45

From: Appleton <S=Appleton%G=K%I=P%TEXACO@mcimail.com>  
Date: Fri, 7 Jul 95 02:57 EST  
To: APRSSIG <aprssig@tapr.org>  
Message-ID: <92950707075729/0004365529D41X4@MCIMAIL.COM>  
Rendered body type: text/plain  
To: 95157013--P0

From: K.P. Appleton CPI Rumbai, Indonesia  
\_\_\_\_Phone -- CTN 8-46-42142 (Work); 8-46-43088 (Home)  
\_\_\_\_TEXNET 8-45-42142 (Work); 8-45-43088 (Home)  
Subject: (U)GASRMIN 45

How do you download the track data from the Garmin 45. The documentation is silent on this (I think). I had to use aprs to log positions and later used the history file with mapfix to create a map. It would be a lot more convenient if I could leave the laptop at home on sorties through the jungle!

Keith YB5AQG

>From Keith P. Appleton  
92221132--P0 or XKAPPL at X400 or EXPKPA at VMCP11  
Internet Address: SN=APPLETON%G=K%I=P%TEXACO@mcimail.com

---

### 64. Re: [APRSSIG:2083] KPC-3 L TRACK Buffer

From: Larry Griffin <largriff@onramp.net>  
Date: Fri, 7 Jul 1995 07:37:45 -0500  
To: aprssig@tapr.org  
Message-ID: <199507071237.HAA26247@ns.onramp.net>  
Rendered body type: text/plain

<---- Begin Included Message ---->

From: RonN9QGS@aol.com  
Subject: [APRSSIG:2083] KPC-3 L TRACK Buffer  
Hi, I believe I am setting up the L Track command correctly by specifying my maildrop as N9QGS-1 and setting its size to 50K and the setting my Ltrack to the correct sentence and the size, i.e. 20K, But how do I retrieve this? I thought you connected to your mail drop and I did the command specified by the help menu , and it just gives me the last recorded sentence????! Isn't it suppose to list a whole bunch? Your help is appreciated, If it worked

correctly I should have a whole trip I did on a balloon launch.  
<---- End Included Message ---->

The proper command is:

LTRack <n>

where <n> is the number of past posits to retrieve.

-----  
| Internet: largriff@onramp.net  
Larry Griffin | Internet: ab5ge@amsat.org  
| AX25: ab5ge@w5ero.#wtx.tx.usa.noam  
-----

---

## 65. Re: [APRSSIG:2087] (U)GASRMIN 45

From: rkramer@vaxxine.com (Ronald Kramer)  
Date: Fri, 7 Jul 1995 09:30:26 -0400  
To: aprssig@tapr.org  
Message-ID: <9507071330.AA26507@alpha.vaxxine.com>  
Rendered body type: text/plain

>Subject: (U)GASRMIN 45  
>  
>How do you download the track data from the Garmin 45. The documentation is  
>silent on this (I think). I had to use aprs to log positions and later used the  
>history file with mapfix to create a map. It would be a lot more convenient if  
>I could leave the laptop at home on sorties through the jungle!  
>  
>Keith YB5AQG  
>

Here is a file to make a history file from the Garman 45 plot output  
I forget how I got the file out but beleive it was with the  
program GARMAN and GARMANA will check next week when I return home  
this is a basic program that I adapted to work...  
I call it GAR45HST.BAS  
hope it helps you.  
[Attachment: GAR45HST.BAS; text/plain; 903 bytes]

---

## 66. Re: [APRSSIG:2084] Re: 7d BETA Problem

From: W2H0B@aol.com  
Date: Fri, 7 Jul 1995 11:18:44 -0400  
To: aprssig@tapr.org  
Message-ID: <950707111709\_109830350@aol.com>  
Rendered body type: text/plain

That's right about saving digi paths and I remember that now! I even printed  
it out and filed it in my loose-leaf binder... now if I could only remember  
to read the stuff I save!

Thanks Bob. I will pass this back to my friend.

73 de Boyd AR

---

## 67. Garmin GPS-45, A Phenomenom

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>  
Date: Fri, 7 Jul 1995 15:37:35 -0500 (CDT)  
To: aprssig@tapr.org  
Cc: CHEAD@exame2.dseg.ti.com  
Message-ID: <950707153735.20201d31@exame2.dseg.ti.com>  
Rendered body type: text/plain

Re: Garmin GPS-45, a phenomenom.

I've been driving around the city with a GPS-45 mounted in the car for a  
couple of weeks now, and have found a "dead" spot where the receiver  
consistently loses track of all of the satellites. This usually produces the  
error message: "Power down and re-init", but if I go through the "dead" spot  
quickly enough it might just say "Poor GPS coverage". This "dead" spot is in a  
completely open area with a very good view of the sky in all directions. There  
is a high voltage power line running through the spot and I've tried to blame  
the problem on it, but under the same power line a quarter to half mile away  
there is no problem. I guess it MIGHT be a noisy/dirty/leaking insulator or  
something on a particular pole, but I can't be sure. I think L-Band is  
somewhat high for insulator noise anyway, but I'm sure not an expert there.  
The spot seems to be maybe a couple of hundred yards long in the dimensions I  
can drive in. It is located on the south side of the TI expressway property in  
Dallas and laps into the IH635 freeway running just south of the TI property.





## 70. Help with KPC-3 setup

From: calldrin@sierra.net (Chuck Alldrin)  
Date: Fri, 7 Jul 1995 20:47:10 -0700  
To: aprssig@tapr.org  
Message-ID: <199507080347.AA15293@diamond.sierra.net>  
Rendered body type: text/plain

I just got a KPC-3 ver 6 TNC today. Can anyone out there that is running one please give me a list of the GPS setups. I'm not sure about all the info in the manuals.

Some of the question that I have are about the new commands. Do they take the place of the old ones or are they used together. i.e. unproto path, beacon times and beacon text are just a few of my concerns!

Any help will keep me from reinventing the "Wheel"

Will be using a PVT-6 and a HT with the KPC-3.

Thanks in advance.

Chuck Alldrin KN6JS Chico,CA

---

## 71. GARMIN GPS loses track

From: jeff.brenton@espi.com  
Date: Sat, 08 Jul 95 01:14:41 -0500  
To: aprssig@tapr.org  
Message-ID: <9507080114.01QY908@espi.com>  
Rendered body type: text/plain

Claude Head asks about a "dead spot" for his Garmin 45 near the TI plant in Dallas; the symptoms are consistant with a noisy area. Remember - the satellite signals are "spread spectrum", and the computer in the GPS is reconstructing it. The signals MAY be below the "noise level" of the background radiation, and still produce a "solid signal" after processing.

LORAN works the same way - as long as the signal-to-noise ratio is high, the signal level might be very low. My Apollo 604 will report SNRs of 150-220 out of 255 possible, with SigLvl reporting zero or 1.... or, it might have SNRs of zero, with signal levels in the 20-50 range, if I'm near power lines (many utilities send data across their long lines on a 100KHz carrier, which just happens to be the frequency used for LORAN).

---

## 72. Re: [APRSSIG:2095] GARMIN GPS loses track

From: Gerald J Creager <gergy@cs.tamu.edu>  
Date: Sat, 8 Jul 1995 08:29:50 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507081329.IAA15463@solar.cs.tamu.edu>  
Rendered body type: text/plain

jeff.brenton@espi.com sez:

>

>

> Claude Head asks about a "dead spot" for his Garmin 45 near the TI  
> plant in Dallas; the symptoms are consistant with a noisy area.  
> Remember - the satellite signals are "spread spectrum", and the  
> computer in the GPS is reconstructing it. The signals MAY be below the  
> "noise level" of the background radiation, and still produce a "solid  
> signal" after processing.

Jeff's completely correct, and I dropped the ball. By raising the noise floor, a spread spectrum signal has to have more signal to be decodable. In a random (gaussian) noise environment, the noise amplitude can be raised higher than in a non-gaussian or pink noise environment, like that generated around a power system. Further, you could be seeing an "antenna" effect, where a long stretch of power line is capturing and reradiating a variety of signals, all the way up to L band.

A final consideration, and one that cannot be discounted, is that the power lines are reflecting the signal, providing a multipath environment, and making the timing solutions indeterminant. At that point, the GPS will decide it's not happy.

On another topic... Did anyone notice some strange satellite performance Thrusday afternoon, about 1930-2300 utc? I was out with some high-\$ Trimble survey-grade gear, a Garmin GPS-55 and a Motorola VP OnCore, and they were all giving wierd solutions.

## 73. HF gate's again

From: wnolle@ro.com (William Nolle)  
 Date: Sat, 08 Jul 1995 04:43:42  
 To: aprssig@tapr.org  
 Message-ID: <199507081442.JAA22109@sh1.ro.com>  
 Rendered body type: text/plain

I know you guys probably hate to see this again Hi, but again this morning all i can see is HF gates all over the map. Now i entered a Gate,Wide to see what would happen and up pops a little window saying that "GATE was designed for HF Boats and Mobiles to relay their position back home on VHF". Sorry but out of the bunch i see on VHF NONE of them are running mobile or are in boats. Bob in order to prevent these unwanted gates on our maps (More so the messages and beacons) we need to have a version of APRS without them being able to do this, Why should we be forced to except all that traffic if we don't want it. We don't care to see or hear them if we can't communicate with them!. I know guys i again will get some flame for this, but remember All of our local users would rather have the HF gaters go away.

Bill (KE4EER)  
 wnolle@ro.com      For those that want to attack me again for my oppinion!...

## 74. mail\_archive

From: Greg Jones <gjones@tenet.edu>  
 Date: Sat, 8 Jul 1995 09:38:26 -0500 (CDT)  
 To: bbssig@tapr.org (BBS SIG mailing), netsig@tapr.org (NETSIG mailing),  
      hfsig@tapr.org (HF SIG mailing), aprssig@tapr.org (BBS SIG mailing)  
 Message-ID: <199507081438.JAA23566@Leslie-Francis.tenet.edu>  
 Rendered body type: text/plain

The mail archives for all the SIGs are now updated nightly.

They can be gotten by ftp in each SIG area under mail\_archive

ftp://ftp.tapr.org/tapr/SIG/

In addition, the mail\_archive files have been available from the TAPR listserv.

There are links to the SIGs in the TAPR web page.  
<http://www.tapr.org/tapr>

Cheers - Greg

## 75. Doppler interface 4800 baud

From: CMPK59D@prodigy.com (MR ROBERT D SWAIN)  
 Date: Sat, 08 Jul 1995 10:16:45 EDT  
 To: owner-fox-list@netcom.com, aprssig@tapr.org  
 Message-ID: <013.08420793.CMPK59D@prodigy.com>  
 Rendered body type: text/plain

-- [ From: Robert D. Swain \* EMC.Ver #2.10P ] --  
 Expanded recipient data:  
 cc: Jerry T. Swain                    \ PRODIGY:        (CMPK59A)

In response to the message posted by Bob Bruninga, WB4APR :

> The only problem is that it will require modifying the N7LUE interface from 2400 to >4800 baud to match the GPS and TNC in HSP mode. I dont have a schematic of the >N7LUE interface, so someone needs to figure that out... (WB4APR)

Here is the modification required to change the N7LUE Doppler Interface board to 4800 baud:

1) Locate U3 (8116). With power off, locate and cut the trace that connects pin 14 to ground. Replace it with a jumper that connects pin 14 to pin 13 (+5v). This changes a logic 0 to a logic 1 on pin 14.

2) Still on U3 (8116), locate and cut the trace that connects pin 15 to +5v. Replace it with a jumper to pin 16 (ground). This changes a logic 1 to a logic 0 on pin 15.

The above changes will allow the N7LUE interface board to send data to APRS at 4800 baud.

Version 2 of the interface will incorporate this change by allowing

jumper selection of baud rates.

Questions or comments to:  
Robert Swain N7LUE  
360 Phirne Rd  
Glen Burnie Md. 21061  
CMPK59D@prodigy.com  
fox-list@netcom.com

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## 76. (U)Beacon Positions

From: Appleton <S=Appleton%G=K%I=P%TEXACO@mcimail.com>  
Date: Sat, 8 Jul 95 10:23 EST  
To: APRSSIG <aprssig@tapr.org>  
Message-ID: <40950708152304/0004365529D41X4@MCIMAIL.COM>  
Rendered body type: text/plain  
To: 95157013--PO

From: K.P. Appleton CPI Rumbai, Indonesia  
\_\_\_\_Phone -- CTN 8-46-42142 (Work); 8-46-43088 (Home)  
\_\_\_\_TEXNET 8-45-42142 (Work); 8-45-43088 (Home)  
Subject: (U)Beacon Positions  
Bob, I have persuaded the local bbs stations in the area to put their locations in their beacons BUT not much success. The first problem was that they borrowed my Garmin-45 to get their positions and insisted in putting their locations in to 3 decimal places instead of 2. Got that cleared up but still no joy. I got it to work after I removed the colon in the TIME from one of them ( they start the beacon - which is to MAIL - with a date and a time e.g. 8-Jul 15:20 - they are using FBB) I guess the colon screws up APRS parsing - is that the problem?.....Keith YB5AQG

>From Keith P. Appleton  
92221132--PO or XKAPPL at X400 or EXPKPA at VMCP11  
Internet Address: SN=APPLETON%G=K%I=P%TEXACO@mcimail.com

---

## 77. Version 7.1 bug report

From: lbutler@awod.com (Larry Butler)  
Date: Sat, 8 Jul 1995 20:30:16 -0400  
To: aprssig@tapr.org  
Message-ID: <199507090030.UAA08429@sumter.awod.com>  
Rendered body type: text/plain

I have a problem with 7.1 that I never had before, even with 7.0d.

The CFG71.APR file isn't compatible with the KAM. And I don't think 7.1 is reading the data from the file correctly. My config file is at the bottom of this message (if I don't goof it). I put in, using  
O D S WW,GATE,WIDE,WIDE/APRS V WIDE,WIDE into the DIGIPATH and saved it to CFG71.APR which, for some reason, always has corrupted my root directory. It shows up in the file as I typed it. The file has been saved correctly. When 7.1 reads it out of the file, it shows up in the TAB status window properly...showing me the file is being read into the program correctly. BUT, if I press U the only thing I see is WIDE,WIDE on the U command's screen. If I type GATE,WIDE,WIDE/APRS V WIDE,WIDE into the U command, the program sends this properly to the KAM and the beacon line shows a proper path to both HF and VHF as usual. But somewhere between reading these lines from the CFG71.APR file and the string that is sent to the KAM, it never makes it. Bob??

I also have noticed that the E outgoing message kill command has been changed for the worse! If I had a BLN bulletin line or more onscreen while messaging to someone, BLNs were the LAST to be dumped with the E command. This was great as you could control normal conversations without disturbing BLN lines. NOW, the program dumps the lines in the ORDER THEY SHOW ON THE SCREEN without checking for the BLN status. Only the \*ACK\* lines get dumped first before any unacked text. If I have a BLN line above text that isn't making it to a destination, I can no longer dump the undeliverable lines without dumping the BLN lines first. I'd like to see that changed back OR...more preferably...I'd like to see bulletin entry on the bulletin screen DIRECTLY. This would eliminate mixing BLN lines with message traffic on the single screen. I would also hope doing this, in a different array perhaps, would keep the BLN lines from sucking up my 10 line limit on message traffic. If we ever do get into a bad situation where we are in actual emergency comms, this 10 line limit is gonna kill using APRS for any message traffic...especially if 5 of the 10 lines are taken up with a bulletin necessary for all stations to see. Bulletins need to be off the message screen....OR.... We could REALLY INCREASE TRAFFIC WITH TONS LESS LOAD ON THE CHANNEL if APRS actually connected, like regular packet, to the

station you had messages for. This will work with MCON ON. Connected packets, even through digi paths GATE,WIDE, are FAR less lengthy than these long, long beacons. APRS could see the same data, i.e. :KN4IM : followed by the data. APRS would parse the ':'s out of it and display it on a message window as it does now. How 'bout it, Bob? Input would still be the same as it is now, but APRS would initiate an HF or VHF actual connect to the destination. Then, it would do similar parsing to recover the call and do the display. The retries would go down 100%!

Enough horn blowing...that's my bug report and suggestion box...  
73, All, CU ON 30m APRS....Larry KN4IM/GATE/WIDE Charleston, SC.  
My email is lbutler@www.awod.com

Hope the file is here:  
[Attachment: CFG71.APR; text/plain; 538 bytes]

---

## 78. Subscription

From: lbutler@awod.com (Larry Butler)  
Date: Sat, 8 Jul 1995 20:45:24 -0400  
To: aprssig@tapr.org  
Message-ID: <199507090045.UAA08705@sumter.awod.com>  
Rendered body type: text/plain

Can someone subscribe me to receive all the pub mail in this sig?  
Thanks! Larry KN4IM/GATE/WIDE for Eastern SC.

---

## 79. O-D and Config bug

From: lbutler@awod.com (Larry Butler)  
Date: Sat, 8 Jul 1995 22:27:30 -0400  
To: aprssig@tapr.org  
Message-ID: <199507090227.WAA10368@sumter.awod.com>  
Rendered body type: text/plain

Bob, I found that my 7D does the same thing as 7.1. My 7B works fine in the path department. I can O D WW and transmit then O D NO and transmit and the path is correct on both HF and VHF.

The configuration loading into 7b also works fine but not in 7D.  
I hadn't noticed it until backpedaling to previous versions looking specifically for this bug.

Hope this helps!....

Er, ah, while we're at it...Can APRS be taught to look at the call in the position array and reject it if cmd: is part of the call?? That would eliminate it from putting extra cmd:KN4IM or some other call it sees when commands are sent to the tnc, as it does when O D is selected. Thanks!

73, Larry KN4IM

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## 80. Re: [APRSSIG:2087] (U)GASRMIN 45

From: rwf@mindspring.com (rwf)  
Date: Sat, 8 Jul 1995 22:48:28 -0400  
To: aprssig@tapr.org  
Message-ID: <199507090248.WAA04762@dylan.mindspring.com>  
Rendered body type: text/plain

>How do you download the track data from the Garmin 45. The documentation is  
>silent on this (I think). I had to use aprs to log positions and later used the  
>history file with mapfix to create a map. It would be a lot more convenient if  
>I could leave the laptop at home on sorties through the jungle!  
>

Someone told you how to use GPS2HST.BAS to convert the file, but I don't think anyone told you yet how to download the info from the Garmin. There is a newsgroup (sci.geo-satellite or something like that) that dwells on this type of stuff, but I'll tell you here because there may be others interested.

Garmin sells their nice little \$140.00 program to download/upload files to the Garmin. A guy on the newsgroup has written one as well. It is a DOS program and is called GARDOWN6 (It is sort of like APRS, the author is constantly improving it). Get it from my FTP site if you can FTP.

The address is ftp.mindspring.com/users/rwf/gpsstuff. I think that should work for you. If not let me know. There is also a link to the GPS stuff

from my web page: <http://www.mindspring.com/~rwf>

Let me know if you have any problem- sometimes I get confused on my own ftp address.

73

Ralph N4NEQ in Atlanta, GA

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

[rwf@mindspring.com](mailto:rwf@mindspring.com)

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

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## 81. Re: [APRSSIG:2097] HF gate's again

From: William Manley <[z002594b@bcfreenet.seflin.lib.fl.us](mailto:z002594b@bcfreenet.seflin.lib.fl.us)>  
Date: Sun, 9 Jul 1995 09:04:27 -0400 (EDT)  
To: [aprssid@tapr.org](mailto:aprssid@tapr.org)  
Cc: [aprssid@tapr.org](mailto:aprssid@tapr.org)  
Message-ID: <Pine.3.89.9507090816.A23523-0100000@bcfreenet>  
Rendered body type: text/plain

It seems to me that a local user would have selected a local map which would not paint the wider spread GATE data. That being the case, how can gated sigs be any annoyance?

As a local user, I find that GATE inputs provide some variety to an otherwise somewhat static display.

If Bob opts for the suggestion to eliminate GATE reception, I trust that he will make it an user option.

William Manley (KB4XE)  
[z002594b@bcfreenet.seflin.lib.fl.us](mailto:z002594b@bcfreenet.seflin.lib.fl.us)

On Sat, 8 Jul 1995, William Nolle wrote:

> Bob in order to prevent these unwanted gates on our  
> maps (More so the messages and beacons) we need to have a version of APRS without  
> them being able to do this, Why should we be forced to except all that traffic if we don't  
> want it. We don't care to see or hear them if we can't communicate with them!. I know guys  
> i again will get some flame

(you can count on that!)

> for this, but remember All of our local users would rather have the  
> HF gaters go away.  
> Bill (KE4EER)  
> [wnolle@ro.com](mailto:wnolle@ro.com)

---

## 82. Bug Report ver 7.1

From: Kevin Heyboer <[kheyboer@pinegov.co.pinellas.fl.us](mailto:kheyboer@pinegov.co.pinellas.fl.us)>  
Date: Sun, 9 Jul 1995 14:47:43 +0100 (EDT)  
To: "[aprssid@tapr.org](mailto:aprssid@tapr.org)" <[aprssid@tapr.org](mailto:aprssid@tapr.org)>  
Message-ID: <Pine.SUN.3.91.950709144019.9374A-1000000@pinegov>  
Rendered body type: text/plain

Bob, I just installed ver 7.1 and there are some strange things going on here.

I did make note of the change in digi path storage, and I see the comma after the space, ie DR, VIA WIDE,GATE/APRS VIA WIDE,WIDE, is VERY important, yet the saved paths still aren't working. I put in the two letter code I have chosen and a different path comes up than the one I intended.....

Secondly, the bulletin screen is cutting off the first few letters of each line, examples from my current screen are:

KN4HX-1>BLN1can do with fewer advertising messages via ham radio!

KR4US> BLN1 S 7b to 7.1 UPGRADE now on the CATHOUSE BBS

KU0G-1> BLN1 now posted on Jambalaya (816)628-5776!  
KU0G-1> BLN2king for stuff for APRS ENew for 715 issuance. Pse send notes

etc, etc...

My system uses a KAM all mode with vers 5.0 firmware and a 486 machine...no other connections.....any clues?

Keep up the good work....

Kevin Heyboer KD4UYR  
kheyboer@co.pinellas.fl.us

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### 83. DOPPLER DFing with APRS

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 9 Jul 1995 13:10:36 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: Homingin@aol.com  
Message-ID: <Pine.SUN.3.91.950709123241.26087B-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Well, I finally went GPS/APRS/DF mobile yesterday with no less than N7LUE as a navigator! (My wife was outtta town with the kids). The fox was 8 miles from starting point and we got there in 31 minutes with 12 miles traveled. ( a simple local monthly event) BUT it was my first DF hunt in 15 years, and we were just playing, but I was testing new features in APRS (now that one person reports that he has all the interfaces going and I now have a beta tester!) Anyway here is what was in 71 (with bugs) and what will be in APRS71a next week!

- 1) The GPS does very well in giving a heading while moving. I am adding an INPUT-HEADING command so that if you are stopped, then with 4 key strokes you can enter your heading from a compass (magnetic) and APRS will update your true heading. (for proper conversion of RELATIVE)
- 2) APRS DOES properly convert all DF bearings, Magnetic, or RELATIVE to TRUE.
- 3) The new INPUT-SAVE command that snapshots a FIX and places your current posit and DF bearing on the map as a permanent OBJECT for your own reference is a GREAT tool for the BEAM hunters. These saved FIXes can be used to triangulate in on the fox. The INPUT-UPLINK command is the same, but not only puts the FIX on your map, but EVERYONE else's! (Neither of these workd in 71 ARGH!! but is a trivial fix for 71a)
- 4) The DOPPLER operator knows FAR BETTER than ANY computer algoirthm when he is seeing garbage, and when he is seeing good data!!!! He looks out the window and sees buildings or an open field! No computer can match the knowledge of a skilled operator who can see his RF environment. So Joe Moel's suggestion to put a PUSH-BUTTON between the DF data and the COMPUTER is the ONLY way to go. That is the basis of the new APRS DF Single Port mode that lets you operate your TNC/GPS and DF on your one-and-only laptop serial port!

CAVEATS: For a competitive fully equipped doppler DF'er, I'll admit, APRS doesnt really help find the fox, unless there are circumstances where spot triangulation is needed. But BOY IS IT IMPRESSIVE when you replay your APRS track history with periodic DF bearings to show your brilliance and technique to everyone at the finish!

The BEAM DF'er will find APRS a perfect tool for spot triangulation. Using the INPUT-DF bearing command he only types 5 characters for each fix, and APRS with his GPS does all the mapwork. but he will still need a local map to find himself in the real world, and find a road to get from here to there. Again the TRACK HISTORY is an excellent tool for showing off ones brilliance or stupidity.

Even if you just leave APRS in the back seat, Dont forget to use the MAPFIX program and your track history when you get home to UPDATE your current map with all the new roads you traveled...

APRS is the only tool for OMNI-DFing

FOR FINDING A REAL JAMMER, or for any other GROUP HUNT, APRS IS THE ONLY WAY TO GO! With the operator push-button between the Doppler DF and the packet network, we have eliminated the introduction of garbage data, and everyone on the packet net can just read the map and GO!

Stay tuned.

---

#### 84. Re: [APRSSIG:2094] Help with KPC-3 setup

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 9 Jul 1995 13:28:27 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950709132227.26087E@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Fri, 7 Jul 1995, Chuck Alldrin wrote:

>  
> I just got a KPC-3 ver 6 TNC today. Can anyone out there that is running  
> one please give me a list of the GPS setups....

APR REPLY: I just included a first draft of a KPC3.txt in version 71 that was based on some other traffic about the KPC-3. I need a volunteer to become the OWNER and updater of that file to make it answer all the Frequently asked questions about the KPC3.

I also began a GARMN45.txt. We need someone who considers themselves an expert on their particular GPS and TNC to write one for each. I will include them in standard APRS distro, but I cant figure em all out myself. Please make them BRIEF but informative.

---

#### 85. Re: [APRSSIG:2097] HF gate's again

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 9 Jul 1995 13:49:53 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950709134028.26087G@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Sat, 8 Jul 1995, William Nolle wrote:

> I know you guys probably hate to see this again Hi, but again this morning  
> all i can see is HF gates all over the map.

APR REPLY: I think that Bill has a point. Herre are my suggestions!

1) APRS now has a CONTROLS-FILTER-GATEWAY that will allow your system to ignore anything with GATE in its path.

2) We should limit gates to ONE HOP only. This makes it easy for you to know WHO's gate is messing up your local network. But to do this, we must encourage stations on HF to limit their paths to GATE,WIDE and NOT GATE,WIDE,WIDE.

Once we get all the HF'ers back to using only GATE,WIDE, then any further contorl of QRM will be between you and your GATE operator. He should be willing to turn his gate OFF during your local special events.

---

#### 86. Re: [APRSSIG:2109] Re: HF gate's again

From: lbutler@awod.com (Larry Butler)  
Date: Sun, 9 Jul 1995 14:58:04 -0400  
To: aprssig@tapr.org  
Message-ID: <199507091858.OAA23407@sumter.awod.com>  
Rendered body type: text/plain

>  
>On Sat, 8 Jul 1995, William Nolle wrote:  
>  
>> I know you guys probably hate to see this again Hi, but again this morning  
>> all i can see is HF gates all over the map.  
>  
>APR REPLY: I think that Bill has a point. Herre are my suggestions!  
>  
>1) APRS now has a CONTROLS-FILTER-GATEWAY that will allow your system to  
>ignore anything with GATE in its path.  
>  
>2) We should limit gates to ONE HOP only. This makes it easy for you to know  
>WHO's gate is messing up your local network. But to do this, we must  
>encourage stations on HF to limit their paths to GATE,WIDE and NOT  
>GATE,WIDE,WIDE.  
>  
>Once we get all the HF'ers back to using only GATE,WIDE, then any further  
>contorl of QRM will be between you and your GATE operator. He should  
>be willing to turn his gate OFF during your local special events.  
>



>  
OK, OK, I CAN TAKE A HINT! I'll change it all as soon as I get off  
inet. We here in the boondocks used GATE,WIDE,WIDE to spread the APRS  
virus as far as possible. GWW let users on VHF in NC see the data/fixes  
coming thru my GATE here in Charleston, to my WIDE 20 mi N and thru  
Hickory NC's WIDE at 4000 ft. Sorry if we QRM'd anybody...(snif).  
Larry KN4IM

---

## 87. Re: [APRSSIG:2106] Bug Report ver 7.1

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 9 Jul 1995 15:04:15 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950709150126.26087N@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Sun, 9 Jul 1995, Kevin Heyboer wrote:

> I did make note of the change in digi path storage, and I see the comma  
> after the space, ie DR, VIA WIDE,GATE/APRS VIA WIDE,WIDE, is VERY  
APR REPLY: OOPS, you no longer need the comma after the DR VIA WIDE...

> Secondly, the bulletin screen is cutting off the first few letters of  
> each line, examples from my current screen are:  
APR REPLY: THANKS I hadnt noticed that.

OK, THATS IT! TIme to make version 71a, hi hi. Dont share 71, thanks for  
everyones patience...

---

## 88. Re: [APRSSIG:2109] Re: HF gate's again

From: lbutler@awod.com (Larry Butler)  
Date: Sun, 9 Jul 1995 15:04:43 -0400  
To: aprssig@tapr.org  
Message-ID: <199507091904.PAA23534@sumter.awod.com>  
Rendered body type: text/plain

>  
>On Sat, 8 Jul 1995, William Nolle wrote:  
>  
>> I know you guys probibly hate to see this again Hi, but again this morning  
>> all i can see is HF gates all over the map.  
>  
>APR REPLY: I think that Bill has a point. Herre are my suggestions!  
>  
>1) APRS now has a CONTROLS-FILTER-GATEWAY that will allow your system to  
>ignore anything with GATE in its path.  
>  
>2) We should limit gates to ONE HOP only. This makes it easy for you to know  
>WHO's gate is messing up your local network. But to do this, we must  
>encourage stations on HF to limit their paths to GATE,WIDE and NOT  
>GATE,WIDE,WIDE.  
>  
>Once we get all the HF'ers back to using only GATE,WIDE, then any further  
>contorl of QRM will be between you and your GATE operator. He should  
>be willing to turn his gate OFF during your local special events.  
>  
Let me ask a stupid question...

If you don't want any GATE data on your local network, why not just  
change the name of your gateway to something else? Then if there is  
a special reason to put something through your gateway, all a body would  
have to do is put your specific gateway call in their path! Example,  
if the gateway were in Atlanta, didn't want to see all the GATE stuff  
on their local net but still wanted to be contactable, let their gateway  
be MYG ATL or some other STANDARDIZED DESIGNATOR. Then If I wanted to  
get data into their net, I would use ATL (or whatever) to do it!  
Maybe I missed the point. If I turn off my GATE here, my phone rings  
off the hook..."Is the GATEway down?". Guess we're less picky in old  
Charleston in the technological boonies....hee hee...73, Larry KN4IM

---

## 89. Re: [APRSSIG:2101] Version 7.1 bug report

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 9 Jul 1995 15:08:00 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950709143047.26087K-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Sat, 8 Jul 1995, a user reported:

> I have a problem with 7.1 that I never had before, even with 7.0d.  
> The CFG71.APR file isn't compatible with the KAM. And I don't think  
> 7.1 is reading the data from the file correctly. I put in, using  
> O D S WW,GATE,WIDE,WIDE/APRS V WIDE,WIDE into the DIGIPATH and saved  
> it to CFG71.APR ...

APR REPLY: There is the problem. Read the PROMPT. In 71, there is a new format for the OPS-DIGI command that requires you to include the word VIA. IE enter WW VIA GATE,WIDE....

> I also have noticed that the E outgoing message kill command no  
> longer skips BLNS when ERASING...

APR REPLY: OOPS, ill check that. Also, I tried APRS71 with some of the new DF commands and found enough quirks, that 71a is right around the corner...

> Connected packets... are FAR less lengthy than these long, long beacons.

APR REPLY: NOT if you use the same LONG-LONG path, hi hi Also each user should look at his own beacon and see if it includes useless information. Such as callsign, city and state. The posit shows u to the nearest 100 yds, why waste air time telling everyone what city it is in. hi hi We are seeing a lot of QRM on our VHF network from HF activity coming in via HF gates, that we are now discouraging anything beyond GATE,WIDE. Here on the East coast, with 5 full pages of VHF'ers, 60% of our traffic is seen from a few HFers on HF.. Now that the HF net is alive and well, HF users need to remember that every single packet they transmit is being duplicated many dozens of times in VHF networks all across the country. The HF'ers don't see any feedback that EVERYONE in the country is seeing them because VHF does not feedback to HF (thank goodness, hi hi)

This is not an attack on the individual submitting these observations, but it reminded me of some things I have meant to pontificate about anyway, hi hi. Thanks Larry!

---

## 90. (no subject)

From: CMPK59D@prodigy.com (MR ROBERT D SWAIN)  
Date: Sun, 09 Jul 1995 17:39:12 EDT  
To: aprssig@tapr.org  
Message-ID: <013.08460431.CMPK59D@prodigy.com>  
Rendered body type: text/plain

-- [ From: Robert D. Swain \* EMC.Ver #2.10P ] --

subscribe aprssig robert swain

---

## 91. Track station ID packets

From: jeff.brenton@espi.com  
Date: Sun, 09 Jul 95 17:44:15 -0500  
To: aprssig@tapr.org  
Message-ID: <9507091744.00X2705@espi.com>  
Rendered body type: text/plain

A suggestion for an APRS feature - track ID packets received from stations, so it is easier to figure out who's a WIDE, a RELAY, or whatever. I like to explicitly specify the first couple of hops from my QTH outbound, so knowing what IDs are set up as WIDEs (and especially knowing which ones are GATEs) would be nice. If this were included in the DIGI page (doesn't need to be a special one), I'd be very happy....

Another suggestion for those running GATEs - please specify what frequency or frequencies you gate to/from. I \*think\* the GATE in our county is to/from 10.151, but have no way of knowing, other than setting up a monitor on 10.151 and seeing whether or not the packets there appear on 145.79!

---

## 92. HF GATE PROBLEM

From: wnolle@ro.com (William Nolle)  
Date: Sun, 09 Jul 1995 19:11:02  
To: aprssig@tapr.org  
Message-ID: <199507100017.TAA23617@sh1.ro.com>  
Rendered body type: text/plain

I wanted to tell the HF users that the path's they use that i see are always like GATE,WIDE,WIDE,GATE at minimum. And to Larry i don't know if you are what you said you are Hi. But it's not that simple. I want everyone to understand it's NOT that they show on the map, BUT THE TRAFFIC (MESSAGES) they create. And FOR WHAT PURPOSE? i'm not being sarcastic i would really like

to know why they beacon onto VHF when they can communicate much better by just using HF. I could care less at that point where the guy lives or his location specially when i'm trying to use it for DF'ing or we have heavy weather in the area (They don't know or maybe even care) about that.

If it worked like Bob intended it to be used would be another story, since it was designed for Boats and Mobiles with GPS so the person at home could keep track of them. Well i haven't seen it used in that capacity in the last several month's not in this neck of the woods anyway!. I have received 5 messages so far and all are in favor of what i'm asking for. I still would like to see a version for VHF only then if i don't want those HF users to interfere with our use of APRS then i could just run that version. Why are we forced to listen to all that HF traffic, personally i think the HF gate's are killing APRS on VHF!. Again fellows throw me all the flams you have but please don't do it here on the SIG. my address is below even if you are for HF Gate's, I'm going to save some of the path's just to show that the rules for HF do not apply here.

Again i'm for a version without HF Gates so we can carry on our local functions without their help Hi. If not we already have talked about way's to do it, but it may not be to the liking of HF Gate users.

AND PLEASE, PLEASE TELL ME WITH PRIVATE E-MAIL WHY IF YOU USE THE HF GATE TO VHF WHAT THE PURPOSE IS IF NOT RUNNING GPS, I WOULD REALLY LIKE TO KNOW. Thank you for listening Hi Hi...

Bill (KE4EER)  
wnolle@ro.com PS: Bob the change wouldn't work!....

---

### 93. Running APRS in a window?

From: fehner@cts.com (Barbara Fehner)  
Date: Sun, 9 Jul 95 18:10 PDT  
To: aprssig@tapr.org  
Message-ID: <m0sV7Mq-0001uaC@kickme.cts.com>  
Rendered body type: text/plain

Can APRS be run in a window in MS-Windows? I would like to be able to do other tasks while APRS is monitoring but so far I have been unable to come up with a PIF that works. The program seems to be running but there is no video displayed in the window. If you have a PIF that works, please send a copy to me.

Thanks for any help,  
73,s ,  
Barbara KK6IB  
E:-Mail: fehner@cts.com

---

### 94. Re: [APRSSIG:2110] Re: HF gate's again

From: rwf@mindspring.com (rwf)  
Date: Sun, 9 Jul 1995 22:29:11 -0400  
To: aprssig@tapr.org  
Message-ID: <199507100229.WAA05234@dylan.mindspring.com>  
Rendered body type: text/plain

>

>OK, OK, I CAN TAKE A HINT! I'll change it all as soon as I get off  
>inet. We here in the boondocks used GATE,WIDE,WIDE to spread the APRS  
>virus as far as possible. GWW let users on VHF in NC see the data/fixes  
>coming thru my GATE here in Charleston, to my WIDE 20 mi N and thru  
>Hickory NC's WIDE at 4000 ft. Sorry if we QRM'd anybody...(snif).  
>Larry KN4IM

I can understand Bill's issue with the GATES. [They are interesting when showing off APRS and to help "spread the virus". But they do add lots of extra clutter, especially when the path being used is W,W,G,G,W,W.

I also see one other side of the coin: Interestingly enough, I found myself in Boone North Carolina the Friday evening before July fourth. This is a small town that offers little besides tourist traps, a beautiful mountain setting and ski slopes in the winter.

My friend, N4ZJY lives at 4300 '. I wanted to see if he would get the virus going in his area, so I planned to leave him a copy of APRS and see what happened. We fired up and lo and behold: We saw WA4SSP about 40 miles away. Then we saw a digi in Hickory (sound familiar, Larry?) Then we saw Larry's station in Charleston, SC.

Just for grins We tried wide,wide,gate,gate,wide. A few seconds later, a local station from back home in Atlanta messaged me. He was as surprised as I was that I popped up on the VHF net back home. I was able to update my

position and the wife saw it on her PC. Nice, since I was on a two week road trip.

I used the GATE for its intended purpose: to get my MOBILE position report back to the local net. However that is not one of the "approved" uses in Bobs's new very annoying message that pops up in version 71. I'm glad I was using v 70 that day!

I just thought I would reply, since Larry's gate and the stations in Hickory, NC seemed so familiar to me.

Also- all this weekend, I used the Gateway filter BOB added in 70 (I think). It worked out well. The traffic still cluttered the freq a bit, but it did not clutter my map.

Let's keep the GATES, they serve a very useful purpose. Especially for a VHF mobile traveller like me. But let's EDUCATE the users a bit more!

---

## 95. Re: [APRSSIG:2116] HF GATE PROBLEM

From: Richard Amirault <amirault@laraby.tiac.net>  
Date: Sun, 9 Jul 1995 22:27:55 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSF.3.91.950709221741.10559A-100000@laraby.tiac.net>  
Rendered body type: text/plain

On Sun, 9 Jul 1995, William Nolle wrote:

> I wanted to tell the HF users that the path's they use that i see are always like  
> GATE,WIDE,WIDE,GATE at minimum. And to Larry i don't know if you are  
> what you said you are Hi. But it's not that simple. I want everyone to understand  
> it's NOT that they show on the map, BUT THE TRAFFIC (MESSAGES) they create.

THAT part I understand (some other folks, apparently, didn't)

> And FOR WHAT PURPOSE? i'm not being sarcastic i would really like  
> to know why they beacon onto VHF when they can communicate much  
> better by just using HF.

They DON'T "beacon onto VHF". Someone else (beyond their control) does it for them. (your LOCAL GATE station)

> I still would like to see a version  
> for VHF only then if i don't want those HF users to interfere with our use  
> of APRS then i could just run that version.

Well, one way that comes to mind is to run APRS on some other frequency than the one that the GATE is running. You wouldn't see ANY HF beacons at all! If enough folks in your area feel the same as you, and you can find a clear freq, that would solve your problem.

Here in the Boston area, we have just had a GATE open up for business recently (our FIRST) and I understand what you are saying about the amount of traffic it makes on the network. At present I don't have any problem with it, but I understand where some folks might.

73

|                   |                 |                           |
|-------------------|-----------------|---------------------------|
| Richard Amirault  | NIJDU           | Boston, Massachusetts USA |
| amirault@tiac.net | "Go Fly A Kite" |                           |

---

## 96. Re: [APRSSIG:2116] HF GATE PROBLEM

From: lbutler@awod.com (Larry Butler)  
Date: Sun, 9 Jul 1995 23:05:39 -0400  
To: aprssig@tapr.org  
Message-ID: <199507100305.XAA01678@sumter.awod.com>  
Rendered body type: text/plain

>I wanted to tell the HF users that the path's they use that i see are always like  
>GATE,WIDE,WIDE,GATE at minimum. And to Larry i don't know if you are  
>what you said you are Hi. But it's not that simple. I want everyone to understand  
>it's NOT that they show on the map, BUT THE TRAFFIC (MESSAGES) they  
>create. And FOR WHAT PURPOSE? i'm not being sarcastic i would really like  
>to know why they beacon onto VHF when they can communicate much  
>better by just using HF. I could care less at that point where the guy lives  
>or his location specially when i'm trying to use it for DF'ing or we have heavy  
>weather in the area (They don't know or maybe even care) about that.  
>

>If it worked like Bob intended it to be used would be another story, since it was  
>designed for Boats and Mobiles with GPS so the person at home could keep  
>track of them. Well i haven't seen it used in that capacity in the last several  
>month's not in this neck of the woods anyway!. I have received 5 messages so  
>far and all are in favor of what i'm asking for. I still would like to see  
a version  
>for VHF only then if i don't want those HF users to interfere with our use  
of APRS  
>then i could just run that version. Why are we forced to listen to all that  
HF traffic,  
>personally i think the HF gate's are killing APRS on VHF!. Again fellows throw  
>me all the flams you have but please don't do it here on the SIG. my address is  
>below even if you are for HF Gate's, I'm going to save some of the path's just  
>to show that the rules for HF do not apply here.  
>  
>Again i'm for a version without HF Gates so we can carry on our local functions  
>without their help Hi. If not we already have talked about way's to do it,  
but it may  
>not be to the liking of HF Gate users.  
>  
>AND PLEASE, PLEASE TELL ME WITH PRIVATE E-MAIL WHY IF YOU USE THE  
>HF GATE TO VHF WHAT THE PURPOSE IS IF NOT RUNNING GPS, I WOULD  
>REALLY LIKE TO KNOW. Thank you for listening Hi Hi...  
>  
>Bill (KE4EER)  
>wnolle@ro.com PS: Bob the change wouldn't work!....  
>  
>  
Bill, Larry here...it's really me. Why not just change the alias of  
your MYG locally to something else, something we can all agree on as a  
standard so if someone needs to use it, they can. We used to use airport  
designators (mine is CHS) for packet nodes, we could set MYG CHS when we  
didn't want to see the HF traffic. I have read all the messages and will  
now use NONE for a path when chatting with an HF STATION. Of course, if  
I'm chatting with Bob, or any other VHF station, I'll have to use  
GATE,WIDE (or the airport designator above) to get to him. The simplest  
solution is to change the local HF gateway to something else. That will  
stop the GATE,WIDE digis from coming across.  
73, Larry KN4IM  
PS-My phone goes crazy if I turn off the HF for 20 mins while on inet!  
They all miss watching all the HF traffic across eastern SC from my  
400W 330' WIDE....it's different here.

---

## 97. Re: [APRSSIG:2118] Re: HF gate's again

From: lbutler@awod.com (Larry Butler)  
Date: Sun, 9 Jul 1995 23:26:34 -0400  
To: aprssig@tapr.org  
Message-ID: <199507100326.XAA02074@sumter.awod.com>  
Rendered body type: text/plain

>>  
>>OK, OK, I CAN TAKE A HINT! I'll change it all as soon as I get off  
>>inet. We here in the boondocks used GATE,WIDE,WIDE to spread the APRS  
>>virus as far as possible. GWW let users on VHF in NC see the data/fixes  
>>coming thru my GATE here in Charleston, to my WIDE 20 mi N and thru  
>>Hickory NC's WIDE at 4000 ft. Sorry if we QRM'd anybody...(snif).  
>>Larry KN4IM  
>  
>I can understand Bill's issue with the GATES. |They are interesting when  
>showing off APRS and to help "spread the virus". But they do add lots of  
>extra clutter, especially when the path being used is W,W,G,G,W,W.  
>  
>I also see one other side of the coin: Interestingly enough, I found myself  
>in Boone North Carolina the Friday evening before July fourth. This is a  
>small town that offers little besides tourist traps, a beautiful mountain  
>setting and ski slopes in the winter.  
>  
>My friend, N4ZJY lives at 4300 '. I wanted to see if he would get the virus  
>going in his area, so I planned to leave him a copy of APRS and see what  
>happened. We fired up and lo and behold: We saw WA4SSP about 40 miles away.  
>Then we saw a digi in Hickory (sound familiar, Larry?) Then we saw Larry's  
>station in Charleston, SC.  
>  
>Just for grins We tried wide,wide,gate,gate,wide. A few seconds later, a  
>local station from back home in Atlanta messaged me. He was as surprised as  
>I was that I popped up on the VHF net back home. I was able to update my  
>position and the wife saw it on her PC. Nice, since I was on a two week  
>road trip.

>  
>I used the GATE for its intended purpose: to get my MOBILE position report  
>back to the local net. However that is not one of the "approved" uses in  
>Bobs's new very annoying message that pops up in version 71. I'm glad I was  
>using v 70 that day!  
>  
>I just thought I would reply, since Larry's gate and the stations in  
>Hickory, NC seemed so familiar to me.  
>  
>Also- all this weekend, I used the Gateway filter Bob added in 70 (I think).  
>It worked out well. The traffic still cluttered the freq a bit, but it did  
>not clutter my map.  
>  
>Let's keep the GATES, they serve a very useful purpose. Especially for a  
>VHF mobile traveller like me. But let's EDUCATE the users a bit more!  
>  
OH OH...HERE WE GO! I'm glad you saw our WIDE,WIDE beacons from the  
Hickory machine. My WIDE runs 400W at 330' in Moncks Corner, about 20 mi  
N of Charleston. It has amazing service to the Hickory machine. Stations  
in Alabama and St Pete, FL also report seeing my WIDE when the band is  
open, which is often here. You are welcome thru my WIDE/GATE as are all  
APRSers anytime. Glad to be of service.

I still see the simplest solution to the GATE,WIDE problem is to change  
MYG to some STANDARDIZED alternative.

I had another idea for Bob. Maybe we could get APRS to precede message  
traffic with another path, a message path separate from the data path,  
then reset the path back to normal for all other reports, like positions.  
The stream to the tnc is NEVER crowded, not at 4800 baud up. The tnc  
will take a UNPROTO command very fast, I've tried it. You can't see  
it if it is done at 4800 baud. Let's say normal is GATE,WIDE/APRS V WIDE  
and the message path needs to be KU0G-1/APRS V WIDE (OH? you mean I  
could also use this to digi into uncovered HF areas??!) APRS sends tnc:

U APRS V KU0G-1/APRS V WIDE  
:WB4APR :Bob, I'm trying a new message path to you!  
U APRS V GATE,WIDE/APRS V WIDE

With the reset path the next position beacon would hit the GATEs. The  
message output would not disturb anyone thru a gate, no messages would  
show on remote VHF ANYWHERE! Is this a possible idea to solve this  
problem??...Larry KN4IM

---

## 98. Garmin-75 lockups

From: JeffS5@aol.com  
Date: Mon, 10 Jul 1995 01:42:39 -0400  
To: aprssig@tapr.org  
Message-ID: <950710014145\_111415043@aol.com>  
Rendered body type: text/plain

While playing with my -75 (v.2.32) the other day, it all of a sudden quit  
working; display on, but no keyboard action or screen updating. The only  
rescue was to pull power. This continued to happen so I called the Garmin 911  
man and splained what was going on.

His 1st question was how I had the I/O configured, which I said it's  
supplying APRS data. Next question was which datum was running. I told him  
CONUS 27 (was playing w/ old Marine Maps), "why, is there a problem with  
different DATUMS?

-pause-

The engineer said that they had noticed periodic lockups with various other  
Datums than WGS-84 when the I/O was enabled but didn't know which one's they  
were.

FYI . . . If your GPS-75 starts getting stupid, check &/or change the Datum  
before sending it back.

73, Jeff-WA6EQU

---

## 99. RUNNING APRS in background

From: jeff.brenton@espi.com  
Date: Mon, 10 Jul 95 01:40:03 -0500  
To: aprssig@tapr.org  
Message-ID: <9507100140.02CC40A@espi.com>  
Rendered body type: text/plain

Barbara KK6IB asks if APRS can be run in a window. Unfortunately, that is 100% dependent upon your video settings. I've found that it is incompatible with both Windows and OS/2 in 800x600 and 256 colors; the video mode used by APRS won't run when it is not in the foreground.

Some people have reported that it works fine when you limit your Windows to 640x480 and 16 colors, but that means you can't run a lot of other programs, especially if you want multimedia.

I'm thinking about putting one of the '286 computers we're retiring from one of our customers together as an APRS "background" machine...

---

## 100. Re: [APRSSIG:2122] Garmin-75 lockups

From: lbutler@awod.com (Larry Butler)  
Date: Mon, 10 Jul 1995 08:13:08 -0400  
To: aprssig@tapr.org  
Message-ID: <199507101213.IAA08397@sumter.awod.com>  
Rendered body type: text/plain

>While playing with my -75 (v.2.32) the other day, it all of a sudden quit  
>working; display on, but no keyboard action or screen updating. The only  
>rescue was to pull power. This continued to happen so I called the Garmin 911  
>man and splained what was going on.  
>  
>His 1st question was how I had the I/O configured, which I said it's  
>supplying APRS data. Next question was which datum was running. I told him  
>CONUS 27 (was playing w/ old Marine Maps), "why, is there a problem with  
>different DATUMS?  
>  
>-pause-  
>  
>The engineer said that they had noticed periodic lockups with various other  
>Datums than WGS-84 when the I/O was enabled but didn't know which one's they  
>were.  
>  
>FYI . . . If your GPS-75 starts getting stupid, check &/or change the Datum  
>before sending it back.  
>  
>73, Jeff-WA6EQU  
>  
>  
Gee, Jeff, sounds like we're due a FREE EPROM BUG FIX. Fat Chance with  
Garmin, I'm sure. You have the first report I have ever heard of them  
admitting, even after the pause, that they had a software problem. Keep  
after them, keep calling and hounding. It may help all Garmin owners  
get their rigs fixed. My Garmin locks up when it gets hot, say above  
95F. This should also not occur, but turn the A/C on and restart the  
unit and it cures the problem.

73, Larry KN4IM Charleston SC

---

## 101. Re: [APRSSIG:2115] Track station ID packets

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Mon, 10 Jul 1995 10:14:05 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950710100820.29078E-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Sun, 9 Jul 1995 jeff.brenton@espi.com wrote:

> A suggestion for an APRS feature - track ID packets received from stations, so  
> it is easier to figure out who's a WIDE, a RELAY, or whatever.

APR REPLY: Knowing how a packet got to you via a GENERIC digipeat is  
nearly impossible, but your comments should be well taken. EVERYONE THAT  
IS OPERATING A TNC with any OTHER ALIAS than RELAY should put that in their  
POSIT!!!! Now that we are converting over to WIDE/RELAY backbones, sysops  
MUST include the words WIDE/RELAY in their POSIT comments. I am going to  
change the color GREEN to match only WIDE/RELAY digipeaters, since they  
are the correct APRS tracking network implementation. WIDE only's are  
no longer of value to mobiles...

> Another suggestion for those running GATES - please specify what frequency or  
> frequencies you gate to/from.

APR AGREES!!!

---

## 102. DOPs and positions out of kilter?

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Mon, 10 Jul 1995 09:28:21 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507101428.JAA17172@solar.cs.tamu.edu>  
Rendered body type: text/plain

Did anyone else notice the positions and DOPs going nuts over the last couple of days? I was seeing error estimates of over a mile on my Garmin 55 AVD Saturday. And before that, on Thursday, I had real problems getting good positions.

I am wondering if the system got diddled last week, or if I just happened to live in the "poor coverage" area this time?

73, gerry

--  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile  
\*\*\*\*\*

---

### 103. Re: [APRSSIG:2116] HF GATE PROBLEM

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Mon, 10 Jul 1995 10:32:06 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950710101608.29078F-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Concerning the problem that the Alabama station is having with seeing HF traffic on his VHF network, You will notice that I have somewhat agreed with him and suggested some HF path changes to minimize the problem. But since it seems that some people still don't seem to understand how GATES work, I offer the following:

APRS software has nothing to do with GATES or how HF stuff is getting into your VHF net. There is only ONE source of all that HF traffic on your VHF gate. There is someone in your local area that has his KAM TNC hooked up to both HF and VHF at the same time and he has his TNC GATE callsign set to GATE.

EVERY HF packet you are seeing on VHF is being sent to YOU by this one and only KAM in your local VHF net. That KAM will gateway no matter what APRS is doing and no matter whether the owners computer is even running or not. GATE is purely a KAM TNC function.

I agree with your concerns somewhat and have suggested that HF users back off to using an UNPROTO path of only GATE,WIDE. This will assure that your VHF station will only see HF packets gatewayed by a GATE station within range of your own local WIDE. This should make it easy for you to identify the GATE operator and to negotiate terms and conditions for your local net with him. HE and only HE has the ability to control what HF stations you see.

Hope this helps...

---

### 104. Re: [APRSSIG:2118] Re: HF gate's again

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Mon, 10 Jul 1995 11:00:15 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950710104220.29078I@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Sun, 9 Jul 1995, rwf wrote:

> I also see one other side of the coin: Interestingly enough, I found myself  
> in Boone North Carolina (a small town that offers little ... APRS activity)  
>  
> Just for grins We tried wide,wide,gate,gate,wide. A few seconds later, a  
> local station from back home in Atlanta messaged me. He was as surprised as  
> I was that I popped up on the VHF net back home. I was able to update my  
> position and the wife saw it on her PC. Nice, since I was on a road trip.  
>  
> I used the GATE for its intended purpose: to get my MOBILE position report  
> back to the local net. However that is not one of the "approved" uses in  
> Bobs's new very annoying message that pops up in version 71.

APR REPLY: My VHF "BITCH" warning is just that. A WARNING! It makes sure you know what you are doing. It does NOT say "DONT DO THIS"

I use WIDE,GATE,GATE,WIDE when I need to talk to someone, but the "BITCH"



warning helps me remember to not leave it stuck in that mode.

So I am not just looking at the D-LIST looking for "violators", But when I do see the same stations day-in and day-out always using W,W,G,G,W,W, then I am glad the bitch flag is in there hi hi. So do NOT start POLICING stations that use imaginative paths for fun occasionally. Similarly ignore the "bitch" warning as long as you are doing something that is temporary or causing minimum QRM to others. Listening to the BEEPS and seeing your screen botched up every time you transmit is a small price to pay for being able to contact a friend half way across the country via APRS, hi hi.

Thanks RWF, for giving me the opportunity to clarify this point.

---

## 105. Re: [APRSSIG:2120] Re: HF GATE PROBLEM

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Mon, 10 Jul 1995 11:10:15 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950710110426.29078J-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

I Like LARRY's suggestion to use the Airport designator as the alternate generic name for an HF gateways GATE call. Although most areas will probably want to remain as GATE, at least this gives a standardized alternative. Who knows, maybe someone can convince Kantronics, AEA and PACCOMM to offer TWO MYGate calls in their DUAL PORT TNCs! Then the gateways can be used to GATE normal traffic but can also be addressed INDIVIDUALLY. Any one know how to forward this message to KANTRONICS? I know that some AEA people and PACCOMM are on this SIG already.

---

## 106. Register

From: sontag@rmii.com (alfred sontag)  
Date: Mon, 10 Jul 1995 08:56:42 -0600  
To: aprssig@tapr.org  
Message-ID: <m0sVKtz-000J0aC@rmii.com>  
Rendered body type: text/plain

I dont know how to reg? The Regular way. Or as MARS, I really like the software so far. As soon as you let me know I will send it in. So I can get the new verison at the same time. THANKS  
Alfred A. Sontag  
2160 Shawnee Court  
Colorado Springs, Co.  
80915-1918  
phone 719-591-0290  
Fax 719-573-5768

---

## 107. Re: [APRSSIG:2121] Re: HF gate's again

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Mon, 10 Jul 1995 11:32:17 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950710112608.29827B-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Sun, 9 Jul 1995, Larry Butler wrote:  
> I had another idea for Bob. Maybe we could get APRS to precede message  
> traffic with another path, a message path separate from the data path,  
> then reset the path back to normal for all other reports, like positions.

Hey larry, read the NEWNOTES.txt file included in every APRS upgrade. You will notice that the alternate DIGI paths for MESSAGES is the whole reason for APRS71 and for the new format of the O-D command that you had so many problems with. hi hi

It has problems, but it does let you alternately route messages from your standard BEACONS path.. I posted a long message here on the SIG that described the problems inherent in using this technique. I will see if I kept a copy and send it to you...

---

## 108. RE: [APRSSIG:2093] Re: Garmin GPS-45, A Phenomenom

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>  
Date: Mon, 10 Jul 95 07:38:00 cdt  
To: aprssig <aprssig@tapr.org>  
Message-ID: <30012D1B@mailgtwy.nellis.af.mil>  
Rendered body type: text/plain

Goody, a topic I know something about for sure !!!

I have used three different GPS units in Helo's with NO problems... one was the built in Rockwell system which uses a patch antenna located about 1/3 out the disk from the hub... no problemo... (it's an HH-60G Pave Hawk)... I've also used a Garmin 45 on a Pave Hawk just holding it out the window... however the aircraft was on the ground (with blades turning) - the Garmin 45 can't operate (I've been told - though unverified by me) when you are moving above about 100mph... the final unit I've used on helo's is a Trimble Flightmate Pro...(which doesn't have the velocity restriction of the Garmin) on both the Pave Hawk and a UH-1N (Huey)... The Pave Hawk use was out the gunners window and the Huey was with the stickup antenna up in the greenhouse above the Pilot... No problem... any questions?

Al AH6LS  
sadowskp@usafcrqs.nellis.af.mil  
-----

And, for those who were wondering, I hear time and again of the rotor-blade phenomenon. GPS mounted on a helicopter should not be beneath the rotor blades. As far as THAT signal is concerned, you might as well be rotating a solid metal disk over the antenna. Someone at Texas Instruments asked me about this a couple of weeks ago: and he was the senior GPS integrator on that project...  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk

---

## 109. Excessive quoting

From: jeff.brenton@espi.com  
Date: Mon, 10 Jul 95 11:24:22 -0500  
To: APRSSIG@TAPR.ORG  
Message-ID: <9507101124.0G0UN04@espi.com>  
Rendered body type: text/plain

PLEASE, folks, if you insist on quoting entire messages, PUT THE QUOTE AT THE BOTTOM!!!!!!

In the last two days, there have been about a dozen messages which had NO NEW CONTENT until you scrolled for one or two screens. I've read the previous message - usually in the same pass - so I don't need it parroted. It is far better to paraphrase the points you're responding to, because it shows how you understood the previous message, which may not be the way it was intended - I've seen discussions that went on for days between people who weren't talking about the same thing, but thought they were!

If you must quote literally, do it with as few lines as possible to indicate what you're replying about.

---

\* UniQWK v3.3a\* The Windows Mail Reader

---

## 110. DOPS and Posits screwy

From: jeff.brenton@espi.com  
Date: Mon, 10 Jul 95 11:24:24 -0500  
To: APRSSIG@TAPR.ORG  
Message-ID: <9507101124.0G0VV04@espi.com>  
Rendered body type: text/plain

Gary Creager asks if there has been screwy coverage in the past week on GPS; where you live you shouldn't have been affected by this, but... There have been Notices to Airman out since April for tests of jamming-resistance of GPS in the area of Albuquerque, NM, and "within 400 nautical miles" when airborne. The length of the tests was only supposed to be a month, then it was two months, now it's ???

---

\* UniQWK v3.3a\*

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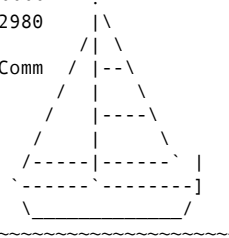
## 111. Re: [APRSSIG:2132] Re: Garmin GPS-45, A Phenomenom

From: paul@paccomm.com  
Date: Mon, 10 Jul 95 12:45:57 UTC  
To: aprssig@tapr.org  
Message-ID: <6373@paccomm.com>  
Rendered body type: text/plain

I think you'll find that the ability of a GPS to receive whilst on a helicopter is very dependant upon the algorithms used in

the receiver. Most blades are made of composite materials and therefore represent no attenuation path to the signals (or very little).  
ARNAV do make avionic processors which have a special helicopter model, so they must need some changes to account for helicopter use.....

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980
Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm
Don't surf the net, SAIL it!
Captain of S/V "Spindrift", Dunedin, FL.
Tall rig (58'), Winged Keel (4' 2"), full batten main
PacComm Packet Radio Systems
4413 N. Hesperides St., Tampa, FL 33614-7618
~~~~~



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## 112. Round the Lakes with APRS/GPS

From: jra@ag9v.ampr.org  
Date: Mon, 10 Jul 1995 10:30:28 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <199507101430.KAA18328@ag9v.ampr.org>  
Rendered body type: text/plain

Just thought I'd report on the trip I just made around Lakes Huron and Superior with my Magellan GPS and APRS laptop running in the backseat.

We covered 2850 miles in 10 1/2 days, and I have a position plot every 5 seconds of the whole thing!!! The system worked really well, though I wasn't running APRS on the air -- most of the trip was out of range of any other station, so I thought it wouldn't be worth it.

The Magellan with its antenna stuck on the roof with a suction cup mount, and a 5 foot piece of RG8X feedline, worked very well. We had solid coverage except for a five mile or so stretch of the Keewenaw Peninsula in Michigan where the tree canopy completely covered the highway. The suction cup stayed put for the entire trip, without having to be reset even once!

5 second position updates work very well to create an incredibly detailed track -- you can see every turn we made. It does create a <lot> of data -- about 140 - 175 kB for each day's ~250 mile drive -- but the filtrhst.bas program lets you trim it down to size for a display of the whole trip. Running filtrhst with a position delta of 10 miles generates a smaller .hst file that can play back the outline of the whole trip pretty quickly.

The volunteer mapmakers have done a great job, but unfortunately we were in some remote areas that aren't mapped with much detail -- particularly along the north shore of Lake Superior in Ontario. One of my projects is going to be creating a "northern lakes" map to use for playing back this trip.

My daughter really liked to look at the screen to see where we were (and how far it was to the next stop), but the color laptop display was hard to see in bright sunlight. Of course, we didn't have too much sunlight to worry about on this trip. :-(

If anyone's interested in a big (1.8MB or so) .hst file for testing, or to use in improving maps of Ontario, Minnesota, Wisconsin, or Michigan, I'd be happy to zip up and mail some or all of it. You gotta promise not to send the speed info to the various police departments, though!

73,  
John AG9V

---

## 113. Garmin GPS-21 DGPS

From: lbailey@hti.net (<Lance Bailey>)  
Date: Mon, 10 Jul 1995 12:55:22 -0500  
To: aprssig@tapr.org  
Message-ID: <199507101801.NAA00787@wally.hti.net>  
Rendered body type: text/plain

Does anyone know of any "Problems" (Design or otherwise) with the Garmin GPS-21 DGPS unit? A local Boat and Marine supplier warned my boss away from buying one, saying "the last three customer's who bought GPS-21's are having serious problems". Also, a co-worker returned his new GPS-21, just a short time ago.

Our location is coastal (49-odd miles from the Galveston beacon), and I had

entertained the idea of doing some "HAM Recon" into the world of DGPS.

---

## 114. Helicopters

From: dbbrumm@mtu.edu (Doug Brumm)  
Date: Mon, 10 Jul 1995 14:06:58 -0400  
To: aprssig@tapr.org  
Message-ID: <199507101806.OAA19232@pobox.ee.mtu.edu>  
Rendered body type: text/plain

Some helicopter blades may be made from composite materials, but their dielectric constant is still different from unity which means they will scatter/diffract EM fields. Since the blades are also moving, the signal components picked up by the GPS antenna will be partially phase modulated. It would seem to me that this could corrupt the signals processed by the receiver in some cases.

Doug Brumm   dbbrumm@mtu.edu   906-487-2515   N800N   EN57

---

## 115. APRS & XMIT ID

From: Richard Rager <71644.1233@compuserve.com>  
Date: 10 Jul 95 14:14:04 EDT  
To: APRS <aprssig@tapr.org>  
Message-ID: <950710181404\_71644.1233\_GHB74-1@CompuServe.COM>  
Rendered body type: text/plain

Hello I am the autor of XMIT\_ID.

This is the program that uses a sound card to get finger prints of radio. This program is getting to a point where I believe it can be come a very good part in finding repeater problems. What I would like to propose to the auther on APRS. It use my program in fox hutting part of the program. Here is how a radio comes on the air that is a known fox. I will ask all station for a signed to noise ratio. With a kucuk you could get a good location on him. In fact with so refinement I cound use the PL tone and the dopper shift get a vextor on a moblie fox.

I do know that this will not be easy but I am willing to put the time in.

73  
Richard Rager  
(KB8RLN)

PS. If you have not found my program yet please down load it from:  
FTP.OAK.OAKLAND.EDU /PUB/HAMRADIO/PC/HAM-UTIL/XMIT160.ZIP  
you may email me at: 71644.1233@compuserve.com (Richard Rager)

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## 116. Need some info

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Mon, 10 Jul 1995 16:10:31 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950710155404.2045E-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Sorry to be talking all the time, but Im still excited from my first DOPPLER fox hunt this past weekend and Im working on version 71a. I need to know 2 things:

- 1) I wanna put in a velocity limit below which GPS should NOT be trusted for a good heading. If you are running APRS mobile all the time, watch your heading for a week or so, and send in your opinion. For now I'm going to use 4 kts, but suspect it could go lower, since the GPS unit itself is doing some averaging internally... I know that 2 is about as low as I wanna go, cuz I see those kinds of errors due to SA.
- 2) Im using a modified copy of about version 68 or so on the Naval Academy Sail boats in SPM mode. We see posits all the time, but NEVER have seen a course and speed. I thought I had all that stuff fixed??? Is everyone else seeing CSE/SPD in SPM or other modes most of the time?

---

## 117. Heathkit Handi-packet and APRS?

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)  
Date: Mon, 10 Jul 1995 14:10:05 -0700  
To: aprssig@tapr.org  
Message-ID: <v01520d00ac26e4d47937@[129.131.31.10]>  
Rendered body type: text/plain

Hello All!

I've got a friend trying to run APRS with his Heathkit Handi-Packet. He's having trouble getting it to work, and attributes that to the 7 bit/1 bit

parity (can't remember exactly) serial port settings that it uses. Anyone have found a way to work around this?

73, jan  
kc6uth

|                          |                                       |
|--------------------------|---------------------------------------|
| Jan Anthony Barglowski   | Phone: (619) 927-1057                 |
| Computer Dude            | Internet: jan@archimedes.nwc.navy.mil |
| Visualization Lab        | Packet: SYSOP@WA6YBN.#SOCA.CA.US.NA   |
| Naval Air Warfare Center | kc6uth@kc6uth.ampr.org                |
| -Weapons Division        | [44.17.2.6]                           |

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### 118. Re: [APRSSIG:2140] Need some info

From: lbutler@awod.com (Larry Butler)  
Date: Mon, 10 Jul 1995 17:53:02 -0400  
To: aprssig@tapr.org  
Message-ID: <199507102153.RAA23172@sumter.awod.com>  
Rendered body type: text/plain

4 is a good number, Bob. My GPS-50 will falsely display up to about 3 when sitting still, probably from multipath reception overhead from local objects as the sats move past us. I think a lot of stations see this false movement. Try this...Go out in a very clear area, such as an open field with no overhead power lines. Watch the still speed, mine reads 0 or .1-.2 constantly. Then go back into the city where there are lots of obstructions, wires, buildings, billboards, other reflective or refractive things. Mine will always read the phase wrong bouncing off these objects. Sometimes a satellite's signal will arrive late because the gps can't really see the bird, only it's reflection off something else. This reflection constantly shifts because of the bird's movement, causing many errors. Check it out... 4 or 5 is a good number. None of us drive that slow, and even if we did the near-fix filter would have gotten us anyways.

73, Larry KN4IM

---

### 119. GPS WORLD & NMEA 0183

From: John Baum <jbaum@freenet.columbus.oh.us>  
Date: Mon, 10 Jul 1995 18:10:52 -0400 (EDT)  
To: aprs sig <aprssig@tapr.org>  
Message-ID: <Pine.3.07.9507101852.A263-a100000@acme>  
Rendered body type: text/plain

The July issue of GPS World has a 4 page article (starting on page 54) that "explains" the NMEA 0183 standard/output.

The good new is that APRS made the article. (O.K. so it was one paragraph, an full color picture {only picture in the article, and with a primitive map no less, hi..hi..} and a footnote for Further Reading.)

The mag just came in at work and I only scanned the article, but it looks interesting (for some reason, my eyes zoomed in on the APRS stuff off the bat.)

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249  
Packet address: KB8JX0@W8CQK.#CMH.OH.USA  
Cruise Missile Address: 39 56.35 N 082 58.89 W  
The 137th most knowledgable person about A.P.R.S.

---

### 120. Re: [APRSSIG:2137] Garmin GPS-21 DGPS

From: jgarrett@world.std.com (John Garrett)  
Date: Mon, 10 Jul 1995 18:23:11 -0400  
To: aprssig@tapr.org  
Message-ID: <FXQ0mmPA4A90065yn@World.std.com>  
Rendered body type: text/plain

I have not heard of problems with the GPS-21, but have been drooling over it for some time myself. Please keep us all informed of your findings!

John  
WN9T

---

### 121. Re: [APRSSIG:2132] Re: Garmin GPS-45, A Phenomenom

From: Gerald J Creager <gergy@cs.tamu.edu>  
Date: Mon, 10 Jul 1995 18:34:43 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507102334.SAA25594@solar.cs.tamu.edu>  
Rendered body type: text/plain

I have had a few problems with the GPS-55AVD under turning blades, but since I did it as a quick test, it cannot be appropriately quantified. I classify this as something to keep in the back of your mind for when you hit the snag and it doesn't work. It's not something I would use to guide me in placement of the antenna unless I had to "absolutely, positively, on time" make sure it worked the first time out... and then I'd use every trick I knew.

— —

```
* SAREX Co-Investigator
*   A little radio that lets kids talk
*   to astronauts, and smile
```

--

- \* SAREX Co-Investigator
- \* A little radio that lets kids talk
- \* to astronauts, and smile

Effective today, I will no longer beacon myself as GATE,WIDE....I will appear on local VHF and on HF screens only....but any mobile VHF APRS user wishing to beacon his posit to his home "port" is welcome to use WIDE,GATE,GATE,WIDE to do so....unfortunately, said user will have to know there is a receiving station at the other end if that station is also not beaconing HF->VHF.

73 de Kevin KD4UYR

> >

---

## 124. Re: Helicopter installs (was: something totally different)

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Mon, 10 Jul 1995 18:41:57 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507102341.SAA25691@solar.cs.tamu.edu>  
Rendered body type: text/plain

paul@paccomm.com sez:

>

> I think you'll find that the ability of a GPS to receive whilst  
> on a helicopter is very dependant upon the algorithms used in  
> the receiver. Most blades are made of composite materials and  
> therefore represent no attenuation path to the signals (or  
> very little).

in fact, some of the composite blades appear as a disk and may represent more of a barrier while moving than while stationary, depending on the composition of the inlays. Graphite is conductive and when spun around the blade for strength, then rotated it can "appear" to have a longer dwell time than a solid metal blade... or so goes the theory. Of course, your mileage may vary, as we've discovered in this thread already.

> ARNAV do make avionic processors which have a special helicopter  
> model, so they must need some changes to account for helicopter  
> use.....

I would consider adding an averaging algorithm for a helicopter, especially if you're receiving PPS code. The instantaneous movements of a helicopter can be of a higher dynamic than an airplane. That could make you see some induced error if you follow one manufacturer's standard practice of predicting the next second's position based on a progression series from the last N positions and derivatives.

73, gerry

--

Gerry Creager N5JXS  
gerry@cs.tamu.edu

\* SAREX Co-Investigator  
\* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

---

## 125. Re: [APRSSIG:2140] Need some info

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Mon, 10 Jul 1995 18:58:30 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507102358.SAA25824@solar.cs.tamu.edu>  
Rendered body type: text/plain

Bob Bruninga sez:

>

> 1) I wanna put in a velocity limit below which GPS should NOT be trusted  
> for a good heading. If you are running APRS mobile all the time, watch  
> your heading for a week or so, and send in your opinion. For now I'm  
> going to use 4 kts, but suspect it could go lower, since the GPS unit  
> itself is doing some averaging internally... I know that 2 is about as  
> low as I wanna go, cuz I see those kinds of errors due to SA.

I'd suggest even less... 1-2 kt. I've gotten good heading info doing a slow walk across a roof to aim a repeater link antenna, and my walking speed is guaranteed to have been <2 kt.

> 2) Im using a modified copy of about version 68 or so on the Naval  
> Academy Sail boats in SPM mode. We see posits all the time, but NEVER  
> have seen a course and speed. I thought I had all that stuff fixed???  
> Is everyone else seeing CSE/SPD in SPM or other modes most of the time?

I'm getting good course/speed using GGA sentences. I noticed today I can really confuse APRS with GSA and ZDA sentences, something I require for another program I have been working on.

When running APRS in the car, I only enable GGA and go on.

73, gerry

---

## 126. Re: [APRSSIG:2126] DOPs and positions out of kilter?

From: jneely@eden.com (Jim Neely)  
Date: Mon, 10 Jul 95 17:32:38 EDT  
To: aprssig@tapr.org  
Message-ID: <199507110015.TAA16372@matrix.eden.com>  
Rendered body type: text/plain

Gerry, I had poor coverage a great deal of Saturday and Sunday.

All seems well today.

jn

Mon, 10 Jul 1995 09:50:13 -0500 you wrote:

>Did anyone else notice the positions and DOPs going nuts over the last couple  
>of days? I was seeing error estimates of over a mile on my Garmin 55 AVD  
>Saturday. And before that, on Thursday, I had real problems getting good  
>positions.

>

>I am wondering if the system got diddled last week, or if I just happened to  
>live in the "poor coverage" area this time?

>

>73, gerry

>--

>Gerry Creager N5JXS                               \* SAREX Co-Investigator  
>gerry@cs.tamu.edu                               \* A little radio that lets kids talk  
>                                                       \* to astronauts, and smile

>\*\*\*\*\*  
>

Jim Neely  
jneely@eden.com                               wa5lhs@tapr.org

---

## 127. Re: [APRSSIG:2133] Excessive quoting

From: quarry@q.continuum.net (Chip Griffin)  
Date: Mon, 10 Jul 1995 21:03:38 -0400  
To: aprssig@tapr.org  
Message-ID: <v01520d00ac277c53d28b@[199.0.52.65]>  
Rendered body type: text/plain

> PLEASE, folks, if you insist on quoting entire messages, PUT THE QUOTE  
>AT THE BOTTOM!!!!!!

I prefer to do it above the appropriate section, but only put enough to  
refresh memory on the point responding to.

> If you must quote literally, do it with as few lines as possible to  
>indicate what you're replying about.

Exactly!!

Chip Griffin - President of Thames River Apple Users Group  
System Operator of The Quarry (203-889-6427)

-----+-----  
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)  
griffge@mp.nu.com | Chip@1:320/301.0 or .1 (fido)  
emmet2@aol.com |

[http://q.continuum.net/~quarry/quarry\\_home.html](http://q.continuum.net/~quarry/quarry_home.html)

---

## 128. GPS-45 Velocity

From: W2H0B@aol.com  
Date: Mon, 10 Jul 1995 21:32:08 -0400  
To: aprssig@tapr.org  
Message-ID: <950710213201\_112023479@aol.com>  
Rendered body type: text/plain

Hi Bob... this is for you and the others interested in the GPS-45 and  
velocity...

I have a Buick Regal with a digital speedometer/odometer. I took the GPS-45



out for a spin to see  
how accurately they compared with each other. They give up super closely...  
if the speedometer  
says 65 I look over and the GPS-45 says 65.4 or at least further defines the  
speedometer.

So, at least if one's off, they're BOTH off cause they are almost the same  
within a few tenths.  
I define "few" as 2,3 or maybe 4 at the most!

The velocity thing you're interested in... I haven't seen a problem with slow  
speeds with the GPS-45.  
When I'm stopped, it says 0.0 mph. No glitching to 0.1 or anything. Sure, it  
tracks slower than the  
speedometer cause it's got to receive and calculate, receive and calculate,  
etc.

This wasn't a lab-conditioned experiment, just an experiment that lasted over  
several days to see  
what would happen. I don't know that you would need any minimum threshold...  
the thing even  
tells me how fast I'm walking!

Good luck. This is a ball. 73 de Boyd

---

## 129. APRS AND THE AEA PK-900

From: melmark@ix.netcom.com (Mel Markowitz)  
Date: Mon, 10 Jul 1995 18:39:01 -0700  
To: aprssig@tapr.org  
Message-ID: <199507110139.SAA29793@ix7.ix.netcom.com>  
Rendered body type: text/plain

Hi Folks,

I am trying to setup APRS 7.0 with my PK-900 and keep getting I/O  
glitch and TNC not responding messages. Packets on 145.79 are coming  
through as garbage characters on the bottom of the screen following  
NO>.

I upgraded the Firmware to the latest version but this didn't do the  
trick. I also reloaded APRS after the firmware upgrade without effect.

Any help and suggestions would be appreciated.

Thanks in advance.

Mel, K2JWD

---

## 130. ALTNET ON KAMPLUS

From: lbutler@awod.com (Larry Butler)  
Date: Mon, 10 Jul 1995 21:48:18 -0400  
To: aprssig@tapr.org  
Message-ID: <199507110148.VAA29723@sumter.awod.com>  
Rendered body type: text/plain

After reading all the docs (red face) I have concluded AltNET is the  
way to go when we wanna BS on HF and not bother anyone, including the  
other guys on HF. BUT...I got a big problem....

When I ALT-S M N and turn AltNET on, the only thing that happens is  
the prompt comes up under the upper right hand window of amazingly  
useful data telling me AltNET is active. NOTHING GETS SENT TO THE  
KAM TO CHANGE THE U COMMAND! ARRRGH! In order to get AltNET to  
work, I finally figured out I had to re-initialize the KAM with  
C B H to force the new UNPROTO command to the KAM. ARRRGH! AND...  
AltNET can't be initialized AT ALL on the VHF port as it has no  
effect on the /APRS V WIDE part of the UNPROTO statement which controls  
the KAM's VHF UNPROTO command. Bob? Bob? Hmm..I guess he's gone after  
his shotgun and headed for South Carolina...guess I better hide..  
73, guys...QQ<CR><CR>...Larry KN4IM

---

## 131. GATE,WIDE HF STATIONS

From: lbutler@awod.com (Larry Butler)  
Date: Mon, 10 Jul 1995 22:19:27 -0400  
To: aprssig@tapr.org  
Message-ID: <199507110219.WAA00709@sumter.awod.com>  
Rendered body type: text/plain

GEE, if we keep on turning off every packet to satisfy a few who can't find their GATE (how they do that I can't imagine), or are in a turf war to hold "my VHF frequency at any cost", then nothing will come across my screens to VHF. My VHF users, mostly techs or generals who don't have HF packet, will all get bored looking at blank maps. They will soon find something better to do with their equipment than that 'DEAD APRS SYSTEM' and I guess there won't be any reason to monitor 10.151 (AGAIN) as it will not have any packets on...everyone being afraid of antagonizing this one bitching or that one bitching...who can't find his GATE (how they do that I can't imagine)....

There is only one thing I have against that.....

I now have about 10 (a guess) stations here that sent Bob \$24, like good boys, so they would have a fully functional APRS system to use so they could monitor and see all the neat stuff, like the bike races in GA that were beacons via GATE,WIDE (THANK GOD) SO EVERYONE, NOT JUST A FEW WHO THINK THEY CONTROL EVERYTHING, would see it. Now I know, to some, that \$24 is nothing, a pittance..it is for me...BUT now ole' Larry will be an SOB in the local packet community because he got all the guys to do the right thing and send in the bux. Bob deserves EVERY BUCK HE GETS! Now some jerk, whoever, comes along bitching that all these bike (or any other GATE,WIDE) beacons are "jamming up my local WIDE". He demands we all turn off everything. I just read KD4URY'S message that he is buckling under and turning it all off. What my VHF users, the paying kind, are seeing is ALREADY lots less...KD4URY'S great wx beacons from Tampa/St Pete will no longer show up on WIDE in Charleston. Noone here but me will have his auto wx broadcast.

I hope you are all, the bitches, happy. I know about 10 paid and 15 still unpaid users here that are not. I guess the 15 will breathe a collective sigh of relief at not being ripped off by Larry KN4IM from his begging them to send Bob the registration...just to watch the blank screen with just locals on it.

Thanks...Larry KN4IM

PS - I'm glad my users can't read this aprssig...

---

### 132. Re: [APRSSIG:2126] DOPs and positions out of kilter?

From: Larry Griffin <largriff@onramp.net>  
Date: Mon, 10 Jul 1995 22:38:39 -0500  
To: aprssig@tapr.org  
Message-ID: <199507110338.WAA02843@ns.onramp.net>  
Rendered body type: text/plain

<---- Begin Included Message <---->

From: Gerald J Creager <gerry@cs.tamu.edu>  
Subject: [APRSSIG:2126] DOPs and positions out of kilter?  
Did anyone else notice the positions and DOPs going nuts over the last couple of days? I was seeing error estimates of over a mile on my Garmin 55 AVD Saturday. And before that, on Thrusday, I had real problems getting good positions.  
<---- End Included Message <---->

Yes, I noticed it here in West Texas also.

-----  
| Internet: largriff@onramp.net  
Larry Griffin | Internet: ab5ge@amsat.org  
| AX25: ab5ge@w5ero.#wtx.tx.usa.noam  
-----

---

### 133. MIMAPS map missing

From: lbutler@awod.com (Larry Butler)  
Date: Mon, 10 Jul 1995 23:54:37 -0400  
To: aprssig@tapr.org  
Message-ID: <199507110354.XAA02909@sumter.awod.com>  
Rendered body type: text/plain

In the most recent zip of MIMAPS, the map MIDETRT.MAP in midtown Detroit is missing. I was looking for Motown Records (sure I was) when I noticed it beeped at me "not found"...

Thought you'd like to know...73, Larry KN4IM

---

### 134. Re: [APRSSIG:2140] Need some info

From: rwf@mindspring.com (rwf)  
Date: Tue, 11 Jul 1995 00:48:07 -0400

To: aprssig@tapr.org  
Message-ID: <199507110448.AAA20665@dylan.mindspring.com>  
Rendered body type: text/plain

Bob said:

We see posits all the time, but NEVER  
>have seen a course and speed. I thought I had all that stuff fixed??  
>Is everyone else seeing CSE/SPD in SPM or other modes most of the time?

Bob- I don't think I have \*ever\* seen course and speed in the P list. I thought it was just something peculiar to my installation. I run GPS/TNC in SPM 24 hrs a day in my van. It sure would be nice to have it work. But I wonder one thing. If you get it working, will the Ga State Patrol get APRS and send my speeding ticket to my Callbook address?

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA  
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info  
FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info  
ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

---

### 135. Re: [APRSSIG:2150] Re: DOPs and positions out of kilter?

From: jgarrett@world.std.com (John Garrett)  
Date: Tue, 11 Jul 1995 00:45:13 -0400  
To: aprssig@tapr.org  
Message-ID: <P7W0mmPA4gGD065yn@World.std.com>  
Rendered body type: text/plain

I was in Indiana last week, and I had some funky coverage on Thursday.  
Didn't have the rx on on Saturday.  
John  
WN9T

---

### 136. Re: Helicopter Installs

From: David Josephson <david@josephson.com>  
Date: Mon, 10 Jul 1995 22:46:22 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <199507110546.AA10868@bolero.rahul.net>  
Rendered body type: text/plain

Many comments in the past few posts on the topic of GPS in helicopters look rather speculative to me. Having installed several GPSs over the years in fixed-wing aircraft and helicopters I can report that there is seldom any difficulty from rotor blades, dynamics, etc, etc. More often you will find other things getting into the GPS signal, such as hash from the igniters (if used), strobe light power supplies, etc.

Graphite composite rotor blades are generally not conductive, as the fiber is embedded in a plastic resin. Therefore most have metal strips added to aid in draining off the static charge that would otherwise accumulate.

Rotor modulation of an analog navigation signal such as VOR can be a problem and for this reason, VOR/LOC antennas are usually located on the tailboom or under the cabin. However I have never seen a problem with rotor modulation of PR code signals such as GPS.

Helicopters indeed may be flown with different dynamics than fixed-wing planes or cars, but not \_that\_ different. We saw no difference in using Trimble TNL1000's for instance in cars, planes and helicopters.

> I would consider adding an averaging algorithm for a helicopter, especially if  
> you're receiving PPS code. The instantaneous movements of a helicopter can be

...not too likely you'll find a PPS (Precision Positioning Service, the encrypted military version) outputting NMEA, or used for APRS! We can always dream, though...

Overall I was very impressed at how robust the GPS signal was. Not to worry about putting them in any type of aircraft.

73  
David WA6NMF

--  
David Josephson / Josephson Engineering / San Jose CA / david@josephson.com

---

### 137. Re: [APRSSIG:2138] Helicopters

From: David Josephson <david@josephson.com>  
Date: Mon, 10 Jul 1995 23:08:13 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <199507110608.AA13374@bolero.rahul.net>  
Rendered body type: text/plain

> Some helicopter blades may be made from composite materials, but their  
> dielectric constant is still different from unity which means they will  
> scatter/diffract EM fields. Since the blades are also moving, the signal  
> components picked up by the GPS antenna will be partially phase modulated.

Indeed -- but the signal will also be phase modulated by all sorts of  
other things, and being a pseudo-random digital code, it is either  
recovered correctly or not at all.

> It would seem to me that this could corrupt the signals processed by the  
> receiver in some cases.

Yes, it would seem so, but if you examine the channel coding algorithms  
you will see that they are very resistant to such modulation producing  
anything other than a slight degradation of signal to noise and thus  
DOPs.

--  
David Josephson / Josephson Engineering / San Jose CA / david@josephson.com

---

### 138. Re: [APRSSIG:2153] APRS AND THE AEA PK-900

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Tue, 11 Jul 1995 11:30:07 +0100 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950711112655.18533A-100000@pinegov>  
Rendered body type: text/plain

On Mon, 10 Jul 1995, Mel Markowitz wrote:

> Hi Folks,  
>  
> I am trying to setup APRS 7.0 with my PK-900 and keep getting I/O  
> glitch and TNC not responding messages. Packets on 145.79 are coming  
> through as garbage characters on the bottom of the screen following  
> NO>.  
>  
> I upgraded the Firmware to the latest version but this didn't do the  
> trick. I also reloaded APRS after the firmware upgrade without effect.  
>  
> Any help and suggestions would be appreciated.  
>  
> Thanks in advance.  
>  
> Mel, K2JWD  
>  
Mel...the upgrade to 7.0 may require you to make modifications to the  
initialization file called in the SYSTEM directory.

That file is either TAPRINIT or AEAINIT depending upon your name brand of  
TNC. It contains all the parameters for your TNC and it sounds like you  
have a parity problem.....check it out.

Kevin Heyboer KD4UYR

---

### 139. GGA vs. RMC

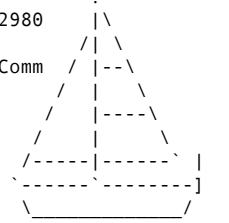
From: paul@paccomm.com  
Date: Tue, 11 Jul 95 09:10:46 UTC  
To: aprssig@tapr.org  
Message-ID: <93@paccomm.com>  
Rendered body type: text/plain

OK.  
As far as I understand things there is a difference between the

way in which most GPS receivers calculate velocity (i.e. SOG & COG).  
 I think that the lat. & long. is calculated the same no matter  
 what sentence is used.  
 However, I was lead to believe that the data in RMC regarding velocity  
 is derived from point-to-point calculations, whereas the velocity  
 in VTG is from Doppler measurements. Is this true? Is this true for  
 all receivers?  
 It appears to be true for Trimble receivers and the GPS-45.

Anybody got any observations?

~~~~~  
 Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980
 Fax:+1 (813) 872-8696
 Views expressed here are not necessarily those of PacComm
 Don't surf the net, SAIL it!
 Captain of S/V "Spindrift", Dunedin, FL.
 Tall rig (58'), Winged Keel (4' 2"), full batten main
 PacComm Packet Radio Systems
 4413 N. Hesperides St., Tampa, FL 33614-7618
 ~~~~~



## 140. Re: [APRSSIG:2160] Re: Helicopter Installs

From: Gerald J Creager <gergy@cs.tamu.edu>  
 Date: Tue, 11 Jul 1995 08:42:08 -0500 (CDT)  
 To: aprssig@tapr.org  
 Message-ID: <199507111342.IAA05477@solar.cs.tamu.edu>  
 Rendered body type: text/plain

David Josephson sez:

>  
 > Rotor modulation of an analog navigation signal such as VOR can be a  
 > problem and for this reason, VOR/LOC antennas are usually located on the  
 > tailboom or under the cabin. However I have never seen a problem with  
 > rotor modulation of PR code signals such as GPS.

I went back and looked at the dates of the articles I have regarding this. It  
 looks like they're pretty old, and I suspect it was based on older decoding  
 technology, where sync and timing were of more importance than actually  
 decoding the satellite messages. I'm going to suspend concern for a while. I  
 do feel strongly, based on other experience, that the composite blades can  
 contribute to multipath, but this problem is reduced somewhat in installations  
 where good groundplane practices aid in signal enhancement.

> Helicopters indeed may be flown with different dynamics than fixed-wing  
 > planes or cars, but not \_that\_ different. We saw no difference in using  
 > Trimble TNL1000's for instance in cars, planes and helicopters.

The TNL1000 is high on my list for well designed hardware. I based on what I  
 know of Trimble's averaging circuitry, however, I am certain that they do some  
 short-term position averaging to compensate for high dynamics settings. In  
 fact, I'm fighting this problem now in a fixed wing aerial photography  
 setting... We see 300 meter errors on a regular basis and are looking for  
 ways to get past it with time hacks and tape marks. Suggestions, anyone?

> ..not too likely you'll find a PPS (Precision Positioning Service, the  
 > encrypted military version) outputting NMEA, or used for APRS! We can  
 > always dream, though...

Take a look at the Trimble TNL4000SSi with nav option. It's a "survey"  
 instrument, but does indeed have PPS capability and outputs NMEA strings if  
 you ask nicely!

It's also outside of the budget of most of the folks \*I\* know :-)

> Overall I was very impressed at how robust the GPS signal was. Not to  
 > worry about putting them in any type of aircraft.

When you consider the minimum signal level present by spec on the earth's  
 surface, and a 29 dB margin between that and the worst real core receiver I've  
 looked at specs for (but not yet tested) it's pretty obvious that there's  
 plenty of signal to process. The real questions for aircraft installation  
 that I've seen remain: multipath from various structures on the aircraft;  
 interference from nav and comm gear (Garmin now recommends in one of their  
 publications not using certain comm frequencies, and teh FAA had recognized  
 some interference problems with AM radios), and the vaguaries of antenna  
 connections in the aviation environment, although those made by hams seem to  
 be lasting longer in the cohort of ham-pilots I know.

---

## 141. Re:DOPs and positions out of kilter?

From: bottmgun@emi.net (Jay K. Jeffries)  
Date: Mon, 10 Jul 1995 22:12:41 -0400  
To: aprssig@tapr.org  
Message-ID: <199507111423.KAA15420@athens.emi.net>  
Rendered body type: text/plain

The recent inaccurate GPS readings made me think of some work I did with the military last year and have not seen mentioned here or on the USENET group. While working with the AN/PLGR (I believe this is the correct designation of the military GPS unit manufactured by Rockwell) my test program was severely limited by restricted access to the piece of equipment. This was due to the fact that the gear was considered crypto equipment. The military has the capability to not only degrade the GPS signal but also disrupt DGPS. This unit has an "anti-spoofing" (their term) capability, that is it is extremely accurate when both the GPS and DGPS signals are scrambled.

My guess is that that anti-spoofing exercises were being performed while your units were recently receiving degraded signals.

Respectfully,  
Jay

---

## 142. Heading/Speed

From: rwf@mindspring.com (rwf)  
Date: Tue, 11 Jul 1995 10:25:08 -0400  
To: aprssig@tapr.org  
Message-ID: <199507111425.KAA25697@dylan.mindspring.com>  
Rendered body type: text/plain

I posted a response to Bob's query regarding whether we have been seeing heading/speed info lately. I said that I had never seen them. Darn it! I looked this morning while driving to work, and there it was. I had not really noticed it because I had always expected some sort of a columnar format. I don't know why I did, but I did.

So Bob-

False alarm. I do see it (at least in 71)

Ralph

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA  
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info  
FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info  
ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

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## 143. Re: [APRSSIG:2154] ALTNET ON KAMPLUS

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Tue, 11 Jul 1995 10:56:55 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950711105123.2483H-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Responding to KN4IM's problems with ALTNET. Its not finished, hi hi. I thought I had posted here and everywhere else that version 71 was a beta test for the DOPPLER SINGLE PORT MODE, and now having done a doppler event last weekend, I am fixing up some things before releasing 71a. Thanks for the reminder, Larry, to finish implementing the ALTNET stuff.

Keith is pulling his hair out, im sure, saying "this wouldnt happen to you Bob, if you would stop releasing so many versions!"

I say again. Version 71 was to test some new DF stuff. Don't get it unless you are into Doppler DF.

---

## 144. Re: [APRSSIG:2155] GATE,WIDE HF STATIONS

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Tue, 11 Jul 1995 11:24:03 -0400 (EDT)

To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950711105945.2483I-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Mon, 10 Jul 1995, Larry Butler wrote:

> GEE, if we keep on turning off packets to satisfy a few...

APR REPLY: Maybe I confused things.. I am perfectly happy with HF stations using the path of GATE,WIDE. I was only asking that we limit it to that and not use GATE,WIDE,WIDE. By limiting it to GATE,WIDE, then it provides a mechanism within the radius of EACH wide for local VHF'ers to have local control over their network. Since I only have VHF at home, I too am dependent on HF users to use GATE,WIDE so I can see "some activity" hi hi...

---

## 145. APRS in SPACE THIS WEEK!

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Tue, 11 Jul 1995 12:36:57 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950711121322.4174B-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

In follow up to last weeks message, APRS has been approved for limited testing during SAREX on the STS-70 mission scheduled for launch on Thursday (13 July). To get a good test, under controlled conditions, this information is being limited to subscribers to the aprssig only, where the number of uplink stations is known and there is a mechanism for real-time feedback.

The primary objective is maximum number of ground station POSITS on the map. (the shuttle will not be beaconing its position)

To achieve this objective:

- 1) Keep packets as short as possible. Use APRS GridSquare mode or SPACE mode if it is in your very recent version
- 2) Put minimum IF ANY text in your alt-BEACON. First name, or school would be fine. DO NOT put your call, city, state, SAREX, CQ or any other REDUNDANT information in it.
- 3) In GridSquare (and SPACE) mode, both your BEACON and POSIT are identical. Try it on the ground with your local digi to understand what your packets will look like.
- 4) Remember to set your unproto path to W5RRR (Gerry, can you confirm this?) Im not sure which call will digipeat
- 5) If your station is un-attended then your once every 20 minutes beacon/pos are certainly not going to hurt anyone! But if you are there, then hit X-P command to send out your POSIT (maximum rate is about 1 per every 8 seconds...)
- 6) Be sure your CONTROLS boxes show you in OTHER mode, so that you will see any NON APRS packets too.

PRACTICE WITH THE GRIDSQUARE MODE AND YOUR LOCAL DIGI. EVEN I CANT REMEMBER ALL OF THE INTERNAL TIMING. I will look it up and post it here in the next day or so.

DO NOT have exceedingly high expectations. Remember that SAREX will most likely be in "SCHOOL" mode over the US for voice contacts and we may see very little packet mode. But if the packet is turned on, APRS IS AUTHORIZED TO TRY TO DIGIPEAT THROUGH IT.

---

## 146. Forwarded Announcement of 7-15-95 Balloon Launch

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)  
Date: Tue, 11 Jul 1995 12:46:18 -0500  
To: aprssig@tapr.org  
Message-ID: <v01510106ac2867824326@[138.87.2.109]>  
Rendered body type: text/plain

>From : KA9SZX  
>To : ALL@DIST9  
>Type/status : BF  
>Date/time : 11-Jul 07:50  
>BID (MID) : 50532\_N9LNQ  
>Message # : 66628

Title : INDIANA BALLOON LAUNCH 7/15  
From: KA9SZX@N9LNQ.#ECIL.IL.USA.NOAM

On July 15 at 7:30 CDT (weather permitting) there will be a helium balloon launch from Veedersburg, Indiana (20 miles east of Danville, IL) to test the deployment of 3 helium balloons to lift a package aloft with minimal spinning. The package will contain a Amateur Television transmitter on 439.250 running horizontal polarity on the antenna and providing two camera views plus a video Id'er with the call KT9V. A GPS receiver and packet telemetry software running at 1200 baud giving position and other balloon status on 446.000 with the call of WB9IHS. Also on board will be a cross band repeater. Input will be on 144.300 FM with outputs on 444.850 and 52.525 with the call on the repeater of W9DUU. A HF net on 3.871 will be hosted by Emmett, K9YKX to provide status of preparation, launch and status of the balloon during the flight. This balloon is expected to reach an altitude of near 100,000 feet and should have near 400 mile range from the balloon at peak altitude. All Amateur operators are encouraged to participate in this flight.

73

Mark, KA9SZX @ N9LNQ.#ECIL.IL  
mgarrett @ prairienet.org

--- End of message #66628 to ALL from KA9SZX ---

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/  
Larry M. Keeran ISU IS - Data Processing Equip Tech lmkeeran@ilstu.edu  
EC McLean Co-Pres CIRC-CIPRUS,Inc-APRSM-APRS k9orp.ampr.org (44.72.126.97)  
wireless path: k9orp via ILGRD1 k9orp@wb9uus.ampr.org (44.72.123.97)  
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/

---

## 147. Help on KAM and gates

From: KD4EMI@aol.com  
Date: Tue, 11 Jul 1995 14:20:40 -0400  
To: aprssig@tapr.org  
Message-ID: <950711142038\_30439612@aol.com>  
Rendered body type: text/plain

Ok, myself and Tom, WA0WSW, have been playing with his KAM.  
I have been reading alot of notes about the "PROPER" way to configure your station. Without sounding like a DINGUS, whats the deal guys..?  
I am confused as ever.

Of course I dont want to be a lid, but what do we do to acomplish the following..

#1 I would like to see the local VHF stations driving around...IS that not ok to transmit that data, does it QRM ?

#2  
How do I allow my VHF users to see everything on HF ?

#3 Do I set it up as Gate, wide/ Wide Wide..?

I am confused....

Isnt the idea to see the neat local stuff happening..? OR does this QRM everyone ?

IF there is a special event, should I change the configuration to Gate, WIDE, WIDE/WIDE,WIDE..?

Thanks in advance for the help.  
Mike KD4EMI

---

## 148. Re: [APRSSIG:2171] Help on KAM and gates

From: lbutler@awod.com (Larry Butler)  
Date: Tue, 11 Jul 1995 15:49:25 -0400  
To: aprssig@tapr.org  
Message-ID: <199507111949.PAA21898@sumter.awod.com>  
Rendered body type: text/plain

Mike, set the MYG of the HF station to GATE. That will crosslink all the HF stuff to your local VHF system (on 145.79 we hope). Set the HF station's APRS program to GATE,WIDE/APRS V WIDE,WIDE (the 2nd WIDE is optional for your area, we use it here to repeat in NC's Hickory station.) The local VHF stations should all be set to just WIDE or WIDE,WIDE to hold down on the HF system loading. They can TEMPORARILY set their path



to WIDE,GATE,GATE,WIDE to let the world know who they are or if they are involved in a special event to let us all see it out here in Radioland. NORMALLY VHF STATIONS SHOULD BE JUST VIA WIDE, however.

BY ALL MEANS, if you have a mobile cruising around town with a live GPS running either in GPS mode of a tnc or through a mobile notebook APRS, SET IT TO WIDE,GATE,GATE,WIDE so the rest of the world can log your mobile and play with our mapping programs making new tracks! Don't pay any attention to the ones complaining about QRM, the MAJORITY of APRS stations just LOVE TO TRACK YOUR MOBILE, that's what we're on here for! Be careful, however, if you use RMC reporting to keep your speed legal. I'm told your cops now have downloaded APRS and have a log open to watch ur speed! I think they're devising a new "AUTOMATED TICKETING PROGRAM". Wouldn't want you to get a ticket!...73, Larry KN4IM

---

## 149. Re: [APRSSIG:2089] Re: (U)GASRMIN 45

From: rkramer@vaxxine.com (Ronald Kramer)  
Date: Tue, 11 Jul 1995 17:32:31 -0400  
To: aprssig@tapr.org  
Message-ID: <9507112132.AA02537@alpha.vaxxine.com>  
Rendered body type: text/plain

>>Subject: (U)GASRMIN 45

>>

>>How do you download the track data from the Garmin 45. The documentation is

>Here is a file to make a history file from the Garman 45 plot output  
>I forget how I got the file out but beleive it was with the  
>program GARMAN and GARMANA will check next week when I return home  
>this is a basic program that I adapted to work...  
>I call it GAR45HST.BAS

I have returned and can now answer the statement I made, I used GARMAN a window's program to download the track info from the Garman 45. The Garman store's the last 761 posit's internally.

I FTP'd the Garman.zip file from sundae.triumf.ca \pub\peter directory lots of good Garman and GPS files here.

1. Place your Garman 45 in GARMAN/GARMAN host mode track output.
2. Garman 45 out cable should be brown data out to pin 2 (9pin rs232), white data in to pin 3 (9pin rs232), Ground is pin 5 on rs232.
3. Set up the garman ini file for your correct rs232 port
4. Run Garman in windows, it will find your Garman and give you the version number in the operations box.
5. Select Download Track, your Garman should show on the screen that it is downloading the points
6. Exit and leave windows and go the the directory where you have the Garman.exe files. The File called GARMAN.TWP is the track you just downloaded. rename it to something else and place it in your HSTS working directory.
7. Run qbasic program gar45hst.bas follow instructions

(BTW I noticed that the one of the input lines was duplicated in the file that I got in version 7.1 so remove it if you see it)

8. You now have a history file that you can play with APRS or with MAPFIX13 to make maps.

(BTW I also downloaded the GARDOWN6.zip file and could not get it to recognize com2 on my computer's or could not figure out how to make a file of the output. Needs Documentation badly. Would prefer this as it is a non windows program, so that I can use my laptop to download tracks while mobile before I start dropping off the fifo posit's, no mouse in mobile for window's.)

Hope that I remembered everything and that is is of some use to everyone.

Regards, Ron ... 73 de Ron  
Internet: rkramer@vaxxine.com (Ron Kramer)  
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

---

## 150. Re: [APRSSIG:2171] Help on KAM and gates

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Tue, 11 Jul 1995 18:02:50 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950711180244.7063C-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain  
  
[Empty message body]

---

## 151. Re: [APRSSIG:2171] Help on KAM and gates

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Tue, 11 Jul 1995 18:10:06 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950711180258.7063D-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain  
  
On Tue, 11 Jul 1995 KD4EMI@aol.com wrote:  
  
> Ok, myself and Tom, WA0WSW, have been playing with his KAM.  
> Of course I dont want to be a lid, but what do we do to acomplish this:  
> #1 I would like to see the local VHF stations driving around...IS that  
> ok to transmit that data, does it QRM ?  
APR REPLY: Everything you do on VHF is fine. WHatever your area wants to do.  
  
> #2 How do I allow my VHF users to see everything on HF ?  
APR REPLY: Set the KAM MYGate to GATE and enable the gateway  
  
> #3 Do I set it up as Gate, wide/ Wide Wide..?  
APR REPLY: You UNPROTO path has nothing to do with packets that come  
through your gateway. You have no control over where they go. Only the  
originator can set the path in his packets.  
  
> IF there is a special event, should I change the configuration to  
> Gate, WIDE, WIDE/WIDE,WIDE..?  
APR REPLY: See #3 above. Your UNPROTO path ONLY determines where YOUR  
packets go, no one elses...  
  
SUMMARY: Normally I think that most HF stations should set GATE,WIDE and  
on VHF set WIDE,WIDE. If you are engaged in a Keyboard QSO then adjust  
these paths to match the person you are talking to, to minimize QRM to  
everyone else.

---

## 152. GARMIN 45

From: mmunster@qualcomm.com (Marvin Munster x5388)  
Date: Tue, 11 Jul 1995 15:27:08 -0700  
To: aprssig@tapr.org  
Message-ID: <v02110184ac28aac640da@[129.46.12.181]>  
Rendered body type: text/plain  
  
Could some one tell me where I might buy a Garmin 45 in the San Diego area?  
I have heard that they might be available throught a marine dealer, but  
which one.  
  
Any help would be appreciated.

```
      \_/_/
      /  \
      | \  (o)(o) | / |
-----o000o-----oo-----o000.-----
|   Marvin J. Munster - WB6PKK   |
| WB6PKK @ KJ6VC.#50CA.CA.US.NOAM |
|   mmunster@qualcomm.com   |
|_____|_____|_____|_____|_____|
      .ooo0      ( )
      ( )      ) /
      \ (      ( /
      \_)      \)
```

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## 153. Re: [APRSSIG:2156] Re: DOPs and positions out of kilter?

From: BenWS5R@aol.com  
Date: Tue, 11 Jul 1995 18:47:33 -0400  
To: aprssig@tapr.org  
Message-ID: <950711184731\_30624199@aol.com>  
Rendered body type: text/plain

Thanks for the info Larry, I noticed it also in the panhandle, but being new thought it was normal. Have 5 or 6 stations on in the amarillo area now, and I will soon be mobile when I get my validation number and tnc(Any suggestions on mobile TNC's for Aprs?). Also think I could get all you good people in the Lubbock area to add AMA or WIDE to your Unproto on .01? Have the station at the NWS set up as wide. 73 from Amarillo, Ben W55R.

---

## 154. MIR

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Tue, 11 Jul 1995 18:54:18 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950711181846.7063F-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

I just happened to monitor 145.55 today (and ystdy) and noticed that when MIR came over, I saw fewer CONNECT-REJ packets and more UI digipeated frames. Seems like a recent AMSAT bulletin encouraged everyone to quit trying to connect to the MIR BBS so that the cosmonauts could have more BBS memory for messages to/from THEM instead of all the From-BOB-to-JOE ego messages. I guess that some of all that CONNECT energy is now starting to migrate towards UI frames. Now if only we could convince everyone to include his 6 digit GRIDSQUARE in his UI packet and keep it short, instead of BEACONS like:

XXXXX>YYYYYY-8,R0MIR\*:CQ via the MIR space station, Sam in TimBukToo, CA

compared with:

XXXXX>QRZ,R0MIR\*:[FM19sx]Sam

These packets convey the same info, but the GridSquare packet is 55% shorter and permits more than twice as many packets per orbit.

Anyway, when your APRS station is doing nothing else, you might find it interesting to monitor 145.55 and see who is digipeating through MIR. Set CONTROLS-OTHER so you will collect non-APRS stations on your L-list. Preferably set alt-5-MODES to GRIDSQUARE or SPACE mode. Your station will send a grid square packet about once every 20 minutes (almost assuring that you will never hit MIR hi hi). Compare that to 10 packets per minute times 10 minutes (100 packets per pass) for someone trying to connect with MIR...

Today MIR is coming over about 6 times a day between 8 AM and 1800 EDT. Every 90 minutes or so. This window slides forward about 23 minutes per day. SO for the next three weeks, while everyone is at work, or sleeping, switch your APRS station over to monitor the activity on MIR and see what you pick up.

---

## 155. Re: [APRSSIG:2123] RUNNING APRS in backgroun

From: fehner@cts.com (Barbara Fehner)  
Date: Tue, 11 Jul 95 16:04 PDT  
To: aprssig@tapr.org  
Message-ID: <m0sVoLQ-0002B8C@kickme.cts.com>  
Rendered body type: text/plain

>  
>Barbara KK6IB asks if APRS can be run in a window. Unfortunately, that  
>is 100% dependent upon your video settings. I've found that it is  
>incompatible with both Windows and OS/2 in 800x600 and 256 colors; the  
>video mode used by APRS won't run when it is not in the foreground.

>  
>Some people have reported that it works fine when you limit your  
>Windows to 640x480 and 16 colors, but that means you can't run a lot of  
>other programs, especially if you want multimedia.

>  
Jeff, Do you know what video mode APRS uses and does it change while in the program?

Barbara KK6IB  
E-Mail: fehner@cts.com

---

## 156. Re: [APRSSIG:2169] APRS in SPACE THIS WEEK!

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Tue, 11 Jul 1995 18:34:26 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507112334.SAA15040@solar.cs.tamu.edu>  
Rendered body type: text/plain

Bob Bruninga sez:

- >
- > In follow up to last weeks message, APRS has been approved for limited
- > testing during SAREX on the STS-70 mission scheduled for launch on
- > Thursday (13 July). To get a good test, under controlled conditions,
- > this information is being limited to subscribers to the aprssig only,
- > where the number of uplink stations is known and there is a mechanism for
- > real-time feedback.
- >
- > The primary objective is maximum number of ground station POSITS on the
- > map. (the shuttle will not be beaconing its position)

We may be able to work on this for future missions... More to follow when it's real either way...

- > 4) Remember to set your unproto path to W5RRR (Gerry, can you confirm this?)
- > Im not sure which call will digipeat

Make that W5RRR-1, please.

- > DO NOT have exceedingly high expectations. Remember that SAREX will most
- > likely be in "SCHOOL" mode over the US for voice contacts and we may see
- > very little packet mode. But if the packet is turned on, APRS IS
- > AUTHORIZED TO TRY TO DIGIPEAT THROUGH IT.

If I remember the schedule the schol list isn't too great for this mission, so there should be a fair chunk of time for independent activities. One thing to know, however, is the "backup" pass for a school is virtually always dedicated to general VOICE QSOs if the initial pass for that school was successful. So, if you're monitoring schools, and know the last one was good, I'd recommend being up on packet next pass, but don't be surprised if they come up on voice.

73, gerry

```
--
Gerry Creager  N5JXS          * SAREX Co-Investigator
gerry@cs.tamu.edu          * A little radio that lets kids talk
                           * to astronauts, and smile
*****
```

## 157. Re: [APRSSIG:2177] Re: DOPs and positions out of kilter?

From: Larry Griffin <largriff@onramp.net>  
Date: Tue, 11 Jul 1995 18:49:32 -0500  
To: aprssig@tapr.org  
Message-ID: <199507112349.SAA08266@ns.onramp.net>  
Rendered body type: text/plain

<----- Begin Included Message ----->

From: BenW5SR@aol.com  
Subject: [APRSSIG:2177] Re: DOPs and positions out of kilter?  
Thanks for the info Larry, I noticed it also in the panhandle, but being new thought it was normal. Have 5 or 6 stations on in the amarillo area now, and I will soon be mobile when I get my validation number and tnc (Any suggestions on mobile TNC's for Aprs?).  
<----- End Included Message ----->

Hi Ben, yes I've seen some of your posits here in Lubbock when VHF opens up. Glad to see more guys interested up there in Amarillo.

Most of us who are GPS mobile are using Kantronics KPC-3s with version 6.0 firmware. I have a KPC-3 and a PacComm T2M2 and like the KPC-3 much better, mostly because of its ability to be controlled remotely. I also have a couple of Motorola OnCore PVT-6 GPS black boxes which work great with the TNC's in standalone or with a laptop.

```
-----
| Internet: largriff@onramp.net
Larry Griffin | Internet: ab5ge@amsat.org
| AX25: ab5ge@w5ero.#wtx.tx.usa.noam
-----
```

## 158. Re: MIR

From: Thomas Griffin - x7792 <griff@SSD.intel.com>  
Date: Tue, 11 Jul 1995 17:04:22 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <9507120004.AA20707@bungee.SSD.intel.com>  
Rendered body type: text/plain

I've seen bulletins requesting we not run automatic packet operations with MIR. Sometimes they use voice on 145.55 and lots of packet stations sending UI frames would be a rude thing to do. But, if your hear the MIR packet



```
*****
      Bert Flower                                N1MXO
      42 Allen St.
      Arlington, Ma. 02174-1610
      617-646-8013
```



etc. No digi response! As if xmit audio lost (even though xmit on)

Going to O-C-T and trying a connect, I had NO trouble getting immediate responses from the same digis and doing normal connects. This eliminates rig, antenna, tnc and basic computer problems..... going back into aprs, nothing - zip!!!!

Now here's the kicker: Quitting the APRS session, going to a dos prompt under windows, running the aprs .exe file, works fine! THEN, exiting the session under dos, quitting the dos prompt, and firing up APRS again with its win icon, all now OK!!

Have gone through this funny little exercise with 7.1 several times, works without fail.

Still have 7.0b and no problems of this kind with it - only with 7.1!

All this with Win 3.11 on a 486/33, 8mb ram, 16550 uarts, etc.etc.....

I don't need any comments about Win vs. OS/2, Mac, or whatever only wonder if anyone has a clue what this is about!!!

73

Yves Albert (Al {"Al"}) Feder  
Yves1@Delphi.com  
W1EOX  
("Mommy, what's all that funny metal stuff on the roof?")  
Home of Tiny Radio Theatre AND  
Eric, the Mad Megalomaniac Bull Cavy

---

## 168. Re: [APRSSIG:2179] Re: RUNNING APRS in backgroun

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Wed, 12 Jul 1995 09:15:04 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950712091223.9542A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Tue, 11 Jul 1995, Barbara Fehner wrote:

> Jeff, Do you know what video mode APRS uses and does it change while in the  
> program?

APR REPLY: APRS opens SCREEN 9. VGA  
if error, then it tries SCREEN 8, EGA  
IF error, then it goes to SCREEN 2 (HI res CGA (monochrome)  
Beyond that, it never changes.

---

## 169. Re: [APRSSIG:2174] Re: Help on KAM and gates

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Wed, 12 Jul 1995 08:21:54 -0500  
To: aprssig@tapr.org  
Message-ID: <9507121321.AA28136@omnifest.uwm.edu>  
Rendered body type: text/plain

The title looks facinating - but the plot was weak....

Bob - did you mean to fire a blank? or was that a salute?

---

To: /mail/db/dbarrow                      Msg #: 2907                      Size: 5/1  
From: bruninga@greatlakes.nadn.navy.mil (Bob Bruninga) On: 07/11/95 17:20  
Header: 193/1  
Subject: [APRSSIG:2174] Re: Help on KAM and gates  
Reply-To: aprssig@tapr.org  
To: aprssig@tapr.org

-----

---

## 170. Minimum Velocity Lockout

From: Homingin@aol.com  
Date: Wed, 12 Jul 1995 09:40:54 -0400  
To: aprssig@tapr.org  
Message-ID: <950712094053\_31059758@aol.com>  
Rendered body type: text/plain



73 de Joe K00V

73  
Jess Girard  
ND1L

David W. Barrow III \* Amateur Radio:N9UNR \* Internet:dbarrow@omnifest.uwm.edu  
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603  
Ma Bell:(414) 375-2667 \* Amateur Packet:N9UNR@N9PBY.ENG3BI.WI.USA.NOAM  
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham  
=====

```

=====
email: Routine text  girardj@delphi.com

```

Data                    girard@panix.com or girard@netcom.com  
FTP                    ftp.netcom.com (ftp/pub/gi/girard/jess)  
\*\*==\*\*==\*\*==\*\*==\*\*==\*\*==\*\*==\*\*==\*\*==\*\*==\*\*==\*\*==

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## 174. Re: [APRSSIG:2187] RE: APRS in SPACE THIS WEEK!

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Wed, 12 Jul 1995 10:08:56 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950712100118.9542E-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Tue, 11 Jul 1995, Doug Smith wrote:

> REGARDING APRS-SAREX, What frequency?

ANSWER>                    Standard SAREX 145.55 DOWNLINK, 144.49 packet uplink.  
We will be competing with all the CONNECT REQUESTS from people trying to  
work the SAREX ROBOT MODE. Also notice that this is the same downlink as  
MIR, so your APRS station may pick up some UI frames occasionally via MIR.  
The UPLINK for MIR is simplex, so if you "UI" on 145.55, lots of others  
may see you and have comments, hi hi.

---

## 175. Re: [APRSSIG:2190] Re: GARMIN 45

From: hyde@mfg.mke.ab.com (Paul Hyde Jr.)  
Date: Wed, 12 Jul 1995 09:13:03 -0500  
To: aprssig@tapr.org  
Message-ID: <v02110100ac29889c7ebe@[130.151.82.42]>  
Rendered body type: text/plain

I did just that - last week - got the unit in 3 days - with the discount.

>If I were in CA and buying a Garmin 45 today, I would call 800-BOATING,  
>and save sales tax by ordering from E&B Marine. I'd also mention the  
>\$20 discount coupon they just sent out, and see if I could get it for  
>\$279 plus shipping, instead of the regular \$299.  
>73, de Bill, K3NN

(\       Paul Hyde Jr.       414-382-2023       414-382-4718 Fax  
((| \     Allen-Bradley  
(( | \    1201 S. 2nd St.  
(\_|\_\_\_)\ Milwaukee, WI 53204  
`-----` Email: hyde@mfg.mke.ab.com

---

## 176. Re: [APRSSIG:2191] 7.1 quirk - anyone notice same?

From: DEANG@mail.syntron.com  
Date: Wed, 12 Jul 95 10:57:49 CST  
To: aprssig@tapr.org  
Message-ID: <9506128055.AA805571869@MAIL.SYNTRON.COM>  
Rendered body type: text/plain

>After upgrading from 7.0b to 7.1, I noticed a really weird anomaly: firing up  
>an APRS session on 145.79, there would be no response from any digi. Incoming  
>stuff fine; populating map correctly; but no response to any pings, queries,  
>etc. No digi response! As if xmit audio lost (even though xmit on)

>Wonder if anyone has a clue what this is about!!!

I thought it was just me! My system has been behaving the same way as  
yours. I upgraded from 7.0b to 7.1 and could not figure out why I  
was not being digipeated. I think it might be related to SPACE mode.

\\//  
(..)  
-oo0-(\_) -Ooo-----  
| George Dean KC5KGE 2946.18N 9545.76W DEANG@syntron.com |  
-----

---

## 177. Re: [APRSSIG:2197] 7.0B DX Cluster Mode

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Wed, 12 Jul 1995 13:31:01 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950712132536.11575A@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Wed, 12 Jul 1995, Jesse Girard wrote:

> Never tried DX Cluster mode [Alt-A] with v.7.0B until this morning. Hit Alt-A

> CRASH... Fired up again, this time it didn't bomb; but nothing whatsoever  
> happens, either positive or negative. I.e., it doesn't go into DX Cluster

APR REPLY: To go to DX cluster mode, hit alt-SETUP-MODES-DX and tune in a DX cluster node. Alt-A can be done in any APRS mode. All it does is put callsign prefixes on the map. Zoom to the whole world and you will see them. There was one version that crashed, cuz the DXCALLS.dat should now be in the APRS\SYSTEM directory and that version was still looking in the APRS directory for it (or vice-versa)

---

## 178. Re: [APRSSIG:2192] Re: RUNNING APRS in backgroun

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>  
Date: Wed, 12 Jul 1995 12:21:33 -0700 (PDT)  
To: aprssig@tapr.org  
Cc: aprssig@tapr.org  
Message-ID: <Pine.HPP.3.91.950712120847.7558A-100000@napalm.ecst.csuchico.edu>  
Rendered body type: text/plain

On Wed, 12 Jul 1995, Bob Bruninga wrote:

> On Tue, 11 Jul 1995, Barbara Fehner wrote:  
>  
> > Jeff, Do you know what video mode APRS uses and does it change while in the  
> > program?

>  
> APR REPLY: APRS opens SCREEN 9. VGA  
> if error, then it tries SCREEN 8, EGA  
> IF error, then it goes to SCREEN 2 (HI res CGA (monochrome)  
> Beyond that, it never changes.

>  
>  
Bob this brings up an interesting problem and question I have.  
My svga 17 inch high dollar monitor here radiates interference  
which is heard on my hf rig freq 10151.0khz. I have tried several  
different software packages to see if I can recreate the problem  
but the APRS screen is the only program which causes it. I have  
tried to change monitor freqs but it made no difference.

Oh yes I have the same problem on a narrow band on a 7 meg freq also.  
This noise which is being generated is a S9 so trying to work APRS on  
the HF freq is impossible unless I turn off my monitor. The rig is  
a TS450S/AT but I also pick it up on my TS940S/AT. I have tried  
relocating my monitor and HF gear, within reason of course with no  
luck.

What I am getting at is there a way to check and see which screen, 9 or  
etc that APRS is operating in and a way to change screens to see if  
that will solve the problem I am having.

I have even gone so far as to have the company I bought the computer  
from send me two other monitors in case I received a defective one and  
that did not work.

At this point suggestions from any one are welcome...thanks in advance

Brad

---

## 179. Re: [APRSSIG:2194] Minimum Velocity Lockout

From: rkramer@vaxxine.com (Ronald Kramer)  
Date: Wed, 12 Jul 1995 16:52:07 -0400  
To: aprssig@tapr.org  
Message-ID: <9507122052.AA19174@alpha.vaxxine.com>  
Rendered body type: text/plain

>Re Bob's minimum velocity lockout for APRS RDF:

>  
Correct me if I am wrong Bob, but is it not that you are looking for  
the maximum speed that the sa shows on the readout when the vehicle  
is standing still and the vel. and course show on the readout ?????  
>From looking at my screen on the garmin 45, I would say that I have  
not seen it go above 3 miles per hour..  
hope this help's

Regards, Ron ... 73 de Ron  
Internet: rkramer@vaxxine.com (Ron Kramer)  
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

---

## 180. Sugestions ???

From: SDRoe@aol.com  
Date: Wed, 12 Jul 1995 16:58:48 -0400  
To: aprssig@tapr.org  
Message-ID: <950712165846\_31338236@aol.com>  
Rendered body type: text/plain

DE Sam,

I am trying to develop a system for Search & Rescue where I can give the Search Teams one piece of equipment and we will be able to track them for the Command Vehicle. I have been testing the PK-12 using a handheld and either a Garmin 45 or Garmin 75. System is working fine in the configuration but I need to get smaller and lighter.

The idea is to put a OEM GPS board and transmitter into the PK-12 and use a Camcorder belt-pack battery for a power supply. What I am looking for is any suggestions at to GPS board and transmitters. Have been looking at Paccom and may go this route but would like to see what the APRS community might suggest.

Please include Equipment Name, Company, Address / Telephone and price, if known.

I really appreciate any help you might be able to provide.

73  
Sam Roe  
South Hill of Puyallup, Wa.  
N 4702.25  
W 12215.07

SDRoe@aol.com

---

## 181. RE: [APRSSIG:2165] Re:DOPs and positions out of kilter?

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>  
Date: Wed, 12 Jul 95 13:09:00 cdt  
To: aprssig <aprssig@tapr.org>  
Message-ID: <30041A66@mailgtwy.nellis.af.mil>  
Rendered body type: text/plain

OK, it's a bucks worth.. not two cents... anyway

I've seen some interesting postings here concerning possible military activities "banging" on GPS signals... I know enough to be dangerous I guess so I'll be dangerous and put in my 2 cents.

As I understand the system, the GPS satellite signal is really two signals - - I've heard the terms L1 & L2 ... Precision (P mode) and Coarse (C mode) ... C, SA, CA modes etc... anyway... seems there are two signals coming down .... and the more precise signal is the "encrypted" signal (requires crypto gear and "key")...

The signal that all the commercial GPS units receive and use is the coarse signal - which is made intentionally inaccurate by "jittering" or corrupting the time/phase of the signal... by intentionally making the time info a little bit bad... the position accuracy is degraded... SA (selective availability I think) turned on is the intentional jittering of the coarse signal I believe (like I said enuff to be dangerous)...

DGPS signals on the other hand (with a notable commercial exception that I am aware of) are ground based beacons that are limited to a specific geographic area. The limitation is due to the fact that the differential correction signal is satellite dependent and different satellites are in view in different places all the time...

There has been alot said/written - - attributed to the military - - concerning the militarys dislike for "others" having high accuracy information... due to the targeting uses of GPS and the more accurate DGPS signal. To my knowledge (a little bit is dangerous remember) there hasn't been a concerted effort to deny the use of GPS to commercial users... I do know (from personal experience) that bad geometry or terrain masking occur more often than I'd like.... gripe gripe gripe

Spoofing and anti-jam are two specific terms with different meaning for the military at least... Both are categorized as intentional disruptions to operations. Spoofing is intentionally false signals.... look/sound like the real thing - but they are

not (so a spoofing transmission would look exactly like a satellite signal but would have incorrect information).... spoofing at L band (the freq that the GPS satellites signals are on) would be very restricted in area of coverage unless the spoofing transmitter was elevated pretty high.. like in an aircraft or another satellite... antispooing is processing to reject intentional transmissions that are false.... the complexity of the GPS signal - combined with the operating frequency make spoofing a low payback (though still viable) approach to disruption. Jamming is a different thing... the intention here is to make the signal to noise go out of wack... so send enuff bad signal and the good signal goes into the noise... by raising the noise floor up high enough above the good signal....(this may sit funny with some folks... the noise floor being just one signal bandwidth wide... but think about it)... Doggone I am dangerous.... anyway, there are efforts underway vis-a-vis DGPS so that the FAA and DoD can work in harmony.... The FAA cancelled the MLS effort (microwave landing system... follow on to ILS stuff) due to the ability of GPS and DGPS together being able to provide the equivalent capability (what... actually save money !!! BTW... it just might be cheaper to the tax payer to give folks inexpensive GPS rcvr in trade for LORAN and shut down the chain ASAP... hmmm bulk acquisition price probably under \$200 per GPS rcvr... for a million bucks that means over 5000 receivers... oh well how much to keep the chains in operation per year???? )... The DoD wasn't too happy about FAA sending out highly accurate position location signals and so there is efforts underway between the DoD and FAA to address the precision location signals the FAA wants to transmit.... this would involve some control arrangement.... after all, we can't have the national aviation transportation landing system turned off in the middle of the nite with storms in half the cities in the country... hmmm remind me that in the future I should only fly under daylight CAVU conditions...

Meanwhile, GLONASS has a full time highly accurate position signal and the Europeans are in the discussion stage for their own GPS system.... both not controlled by DoD... so any bad person would probably have multiple receivers anyway... not to mention that plain ole INS (inertial) systems are getting real real real good for short distance short time spans... REAL good... (LRG laser ring gyro and monolithic accelerometers over a few thousand seconds and with GA gravatational anomoly data over the intended path known a-priori... heck... star trackers aren't that bad themselves.... even in daylight if the right optics are used.... doggone... a little knowledge is dangerous...) easier yet would be just a couple of previously positioned beacon transmitters in the area of the "target"... with a cheap CPU crunching the position of the receiver in reference to the beacons...makes you wonder what the bru-ha-ha is all about....

Enough... but it does make my mind wander about how I could set up a alternate position location system and input the data into APRS....

Al AH6LS (troublemaker)  
sadowskp@usafcrqs.nellis.af.mil  
BTW, none of the above is with the approval of my employer  
or it's customers so done blame anyone but me and my imagination....  
-----

>Subject: [APRSSIG:2165] Re:DOPs and positions out of kilter?  
>Date: Tuesday, July 11, 1995 9:36AM

>The recent inaccurate GPS readings made me think of some work I did with the  
>military last year and have not seen mentioned here or on the USENET group.  
>While working with the AN/PLGR (I beleive this is the correct designation of  
>the military GPS unit manufactured by Rockwell) my test program was severely  
>limited by resistricted access to the piece of equipment. This was due to  
>the fact that the gear was considered cryto equipment. The military has the  
>capability to not only degrade teh GPS signal but also disrupt DGPS. This  
>unit has an "anti-spoofing" (their term) capability, that is it is extremely  
>accurate when both the GPS and DGPS signals are scrambled.  
  
>My guess is that that anti-spoofing exercises were being performed while

>your units were recently receiving degraded signals.

>Respectfully,  
>Jay

---

## 182. RE: [APRSSIG:2164] Re: Helicopter Installs

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>  
Date: Wed, 12 Jul 95 13:16:00 cdt  
To: aprssig <aprssig@tapr.org>  
Message-ID: <30041B26@mailgtwy.nellis.af.mil>  
Rendered body type: text/plain

correct me if I'm wrong, but isn't the PPS out of the Trimble a "pulse per second" ??

-----

Subject: [APRSSIG:2164] Re: Helicopter Installs  
Date: Tuesday, July 11, 1995 8:59AM

David Josephson sez:

> ..not too likely you'll find a PPS (Precision Positioning Service, the  
> encrypted military version) outputting NMEA, or used for APRS! We can  
> always dream, though...

gerry replied

>Take a look at the Trimble TNL4000SSi with nav option. It's a "survey"  
>instrument, but does indeed have PPS capability and outputs NMEA strings if  
>you ask nicely!

---

## 183. Re: [APRSSIG:2192] Re: RUNNING APRS in backgroun

From: fehner@cts.com (Barbara Fehner)  
Date: Wed, 12 Jul 95 14:34 PDT  
To: aprssig@tapr.org  
Message-ID: <m0sW9QX-0001paC@kickme.cts.com>  
Rendered body type: text/plain

>On Tue, 11 Jul 1995, Barbara Fehner wrote:

>

>> Jeff, Do you know what video mode APRS uses and does it change while in the  
>> program?

>

>APR REPLY: APRS opens SCREEN 9. VGA  
> if error, then it tries SCREEN 8. EGA  
> IF error, then it goes to SCREEN 2 (HI res CGA (monochrome)  
> Beyond that, it never changes.

>

Thanks for the info Bob. On the face of it this program should run fine in a window. I have many compiled basic VGA programs that do ok in a window. I think I might bring the problem to a programming newsgroup and see if anyone has any ideas other than using Visual Basic.

On a different subject, I find it difficult to point with any precision using the mouse because of the lack of an acceleration correction. I assume that this is because of using the raw data from the mouse serial port instead of the user's mouse.drv. Would it be possible for you to get the mouse pointing data from any existing mouse management software on the users system?

73's  
Barbara KK6IB  
E-Mail: fehner@cts.com

---

## 184. Re: [APRSSIG:2204] Sugestions ???

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 12 Jul 1995 16:53:11 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507122153.QAA00336@solar.cs.tamu.edu>  
Rendered body type: text/plain

> use a Camcorder belt-pack battery for a power supply. What I am looking for  
> is any suggestions at to GPS board and transmitters. Have been looking at  
> Paccom and may go this route but would like to see what the APRS community  
> might suggest.

As for OEM GPS boards, I'd look at the trimble or Motorola boards, although there's nothing wrong with Rockwell, Ashtech, Novatel, or Magellan, save

PacComm has some integrated solutions already available. Paul and Gwyn can speak to costs and availabilities.

drop me e-mail if you need more detailed info.

— —

```
Gerry Creager  N5JXS      *  SAREX Co-Investigator
gerry@cs.tamu.edu        *  A little radio that lets kids talk
                          *  to astronauts, and smile
*****
```

From: jneely@eden.com (Jim Neely)  
Date: Wed, 12 Jul 95 16:55:47 EDT  
To: aprssig@tapr.org  
Message-ID: <199507122159.QAA01209@matrix.eden.com>  
Rendered body type: text/plain

wa5lhs@tapr.org

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 12 Jul 1995 17:36:19 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507122236.RAA00861@solar.cs.tamu.edu>  
Rendered body type: text/plain

within the GPS engines, and the pin-outs for a number of the consumer grade receivers, PPS refers to precise One Pulse Per Second strobes.

In the context of P-code, PPS refers to the GPS system's Precise Positioning System. It's actually government economy, sharing acronyms.

Gerry

---

## 187. Re: [APRSSIG:2202] Re: RUNNING APRS in background

From: lbutler@awod.com (Larry Butler)  
Date: Wed, 12 Jul 1995 18:32:44 -0400  
To: aprssig@tapr.org  
Message-ID: <199507122232.SAA29195@sumter.awod.com>  
Rendered body type: text/plain

This one's for Brad, I caught hell for quoting before. Have you tried moving the antenna of the offending rig? Sometimes just reorienting the HF antenna will cure the monitor problem. We moved one of the new ham's HF dipole a mere 20 ft so the end was on another tree and now he hears NOTHING from the monitor! MOST of you guys live in transparent (RF-wise) houses. The radiation from the monitor can't get to the shielded radio inside the shielded coaxial cable. There are too possibilities. 1) Direct radiation to an antenna placed right near the monitor (or whatever). 2) Radiation going back up to the antenna along the OUTSIDE of the shield...then back down to trash the rig.

Put a shorted coax connector on the HF rig's antenna jack. Hear anything? If you do, watch the S-meter while unplugging cables, especially the one from the tnc's audio. Unplug 'em one at a time looking for the culprit. Don't forget the front panel mike plug, Kenmore's don't even hook mike ground to the metal cases of their mikes. That's why so many Kenmores have RFI on their audio from radiation the other way. If you don't hear the monitor qrm, pull all the plugs from the rig, incl mike cable, and plug the antenna back in. Hear anything? If yes, try grounding the coaxial cable to the base of the tower...where that wonderful ground system we all have is located. I have a 1/2" aluminum plate u-bolted to an 8' ground rod under the shack where the coaxes come in. There are 6 chassis-mount double female SO-239 connectors in it with plenty of aluminum overhang..connectors very close to the ground. This forms a bleeding-off Faraday shield for RF going up the coax from the shack, and for RF from the HF rig trying to sneak back down the 2m antenna to scramble the KAM. I have ABSOLUTELY NO RF NOISE from the 3 computers, monitors, TNC'S, DSS tv computer on ANY HF frequency. The grounding plate solved all these problems.

Just trying to point you in another direction from blaming the source.  
73, Larry KN4IM

---

## 188. Re: [APRSSIG:2189] RUNNING APRS IN BACKGROUND

From: schiers@ibm.net (hasan schiers)  
Date: Wed, 12 Jul 95 11:52:38 EDT  
To: aprssig@tapr.org  
Message-ID: <199507122326.XAA99342@smtp-gw01.ny.us.ibm.net>  
Rendered body type: text/plain

On Wed, 12 Jul 1995 01:02:21 -0500 you wrote:

>  
>Barbara, I have no idea what mode APRS selects - but it's one that  
>neither Windows nor OS/2 like. You can limit it under OS/2 to CGA  
>graphics, but this loses all color.  
>  
>As far as I know, the video mode doesn't change while running.  
>

Running OS/2 Warp Connect here and after months of running OS/2 2.10 up thru the latest finally had to give up and put on a dedicated 286 clone. APRS video mode is not supported in a window, nor will it run properly even in full screen background. Full screen foreground is fine, but kind of silly for a multi-threaded, multi-tasking operating system.

robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam  
CIS: 74245,1652

---

## 189. N7LUE interface options



From: CMPK59D@prodigy.com (MR ROBERT D SWAIN)  
Date: Wed, 12 Jul 1995 20:00:38 EDT  
To: aprssig@tapr.org, owner-fox-list@netcom.com  
Message-ID: <013.08588508.CMPK59D@prodigy.com>  
Rendered body type: text/plain

-- [ From: Robert D. Swain \* EMC.Ver #2.10P ] --

Expanded recipient data:

cc: Jerry T. Swain \ PRODIGY: (CMPK59A)

This text includes the Data Mute and Alternate Baud rate options.

#### DATA MUTE OPTION

This circuit mutes the data going to the computer serial port while the local APRS radio is transmitting. This is necessary for enhancing the DF system accuracy and allow APRS to decay the transmit period.

Without this circuit, each time the local radio transmits APRS data, the DF radio hears the signal from the nearby transmitter.

This causes the DF unit to output false information to the computer. Also, APRS is now modified to decay the transmit period

from the DF if there is no data. Without this modification, when

the local APRS transmitter causes interference with the DF unit, the interface will output data to APRS and never allow the transmit period to decay.

#### CONNECTION TO THE INTERFACE BOARD

After building the DATA MUTE circuit, connect to the interface by following the steps below:

1. Cut or unsolder the ground lead of Q1 on the interface board.  
(It is the lead closest to the "Q1" ink on the board)  
Connect a wire from this lead to the 555 chip pin #3 on the interface board.
2. Connect 5VDC and Ground to the DATA MUTE board.
3. Tap off from your TNC's "PTT" line and connect it to the DATA MUTE board diode "D1".

NOTE: The value of C1 and R1 set the "hang time" of the circuit after the PTT line returns to "not transmitting" state. This

delay is necessary for the transmitter to stop, and the Doppler receiver to squelch. Increasing the value of either R1 or C1 will increase the hang time. If the circuit is built using the values provided in the schematic, the hang time should be sufficient for most radios.

#### BENCH TEST

Set the interface card for operation by it's instructions.  
(ie. Squelch open-LED 2 lights, squelch closed-LED 2 out)

Proper operation of this circuit will cause the data LED (LED 2) on the interface card to go out when the TNC is transmitting.

Open the squelch on the Doppler unit radio with the volume set normal DF setting. When the TNC PTT line goes low, the flow of data to the RS-232 port stops and LED 2 goes out. When the TNC releases the ground signal from the PTT line, there will be a delay (less

than 1 second) before LED 2 lights.

#### REAL TIME TEST

With all components of the DF station reconnected, and the TNC/radio combination ready, start APRS. Open the squelch on the

DF radio and LED 2 will illuminate. When the TNC keys the transmitter, LED 2 will go out and delay slightly beyond the transmit duration.

With everything operational, and no signal on the DF radio, APRS (version 6 or later) will start to decay the transmit interval.

When a signal is being DF'ed and the TNC transmits, interference may be heard on the DF speaker. No data will flow to the serial port during transmit. This prevents the interference from

skewing the data to APRS. It is important to note that NO DATA, skewed or otherwise, is going to APRS during TNC transmit.

#### OPTIONAL BAUD RATES

Changes were made in APRS that require optional baud rates for the N7LUE interface board. The optional rates allow several serial port units to share a single port provided they are all using the same baud rate. APRS originally required 2400 baud from the Doppler interface but recent changes have caused this change.

"GET OUT THE MAGNIFYING GLASS MILDRED, WE'RE DOING SURGERY!"

Four pins on the AY-5-8116T (U3) set the outgoing baud rate. These pins are 13,14,15,16. If you are familiar with binary counting, you will quickly see there are 16 baud rates to choose from. (50 thru 19,200 baud) As I originally designed the board, 2400 baud is "hardwired" to these pins. Here's how to change it:

Presently for 2400 baud pins 13-16 are tied as follows:  
13 hi, 14 lo, 15 hi, 16 lo, for 2400 baud.

To change to 4800 baud, cut traces and rewire as follows:  
13 hi, 14 hi, 15 lo, 16 lo, for 4800 baud.

To change to 1200 baud, cut traces and rewire as follows:  
13 lo, 14 hi, 15 hi, 16 hi, for 1200 baud.

To change to 9600 baud, cut traces and rewire as follows:  
13 hi, 14 hi, 15 hi, 16 lo, for 9600 baud.

73 de Robert  
N7LUE  
cmpk59d@prodigy.com

---

## 190. (no subject)

From: Mike Cotts <mcotts@freenet.columbus.oh.us>  
Date: Wed, 12 Jul 1995 20:28:02 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.3.07.9507122002.A14254-7100000@acme>  
Rendered body type: text/plain

set: help

Mike Cotts - KB8SSH  
MCOTT@FRENET.COLUMBUS.OH.US

## 191. Re: [APRSSIG:2211] Re: RUNNING APRS in backgroun

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>  
Date: Wed, 12 Jul 1995 18:06:19 -0700 (PDT)  
To: aprssig@tapr.org  
Cc: aprssig@tapr.org  
Message-ID: <Pine.HPP.3.91.950712180300.16838C-100000@napalm.ecst.csuchico.edu>  
Rendered body type: text/plain

On Wed, 12 Jul 1995, Larry Butler wrote:

> This one's for Brad, I caught hell for quoting before. Have you tried  
> moving the antenna of the offending rig? Sometimes just reorienting  
> the HF antenna will cure the monitor problem. We moved one of the new  
> ham's HF dipole a mere 20 ft so the end was on another tree and now he  
> hears NOTHING from the monitor! MOST of you guys live in transparent  
> (RF-wise) houses. The radiation from the monitor can't get to the  
> shielded radio inside the shielded coaxial cable. There are too  
> possibilities. 1) Direct radiation to an antenna placed right near the  
> monitor (or whatever). 2) Radiation going back up to the antenna along  
> the OUTSIDE of the shield...then back down to trash the rig.  
>  
> Put a shorted coax connector on the HF rig's antenna jack. Hear anything?  
> If you do, watch the S-meter while unplugging cables, especially the one  
> from the tnc's audio. Unplug 'em one at a time looking for the culprit.  
> Don't forget the front panel mike plug, Kenmore's don't even hook mike  
> ground to the metal cases of their mikes. That's why so many Kenmores  
> have RFI on their audio from radiation the other way. If you don't hear  
> the monitor qrm, pull all the plugs from the rig, incl mike cable, and  
> plug the antenna back in. Hear anything? If yes, try grounding the  
> coaxial cable to the base of the tower...where that wonderful ground  
> system we all have is located. I have a 1/2" aluminum plate u-bolted to  
> an 8' ground rod under the shack where the coaxes come in. There are  
> 6 chassis-mount double female SO-239 connectors in it with plenty of  
> aluminum overhang..connectors very close to the ground. This forms a  
> bleeding-off Faraday shield for RF going up the coax from the shack, and  
> for RF from the HF rig trying to sneak back down the 2m antenna to scramble  
> the KAM. I have ABSOLUTELY NO RF NOISE from the 3 computers, monitors,  
> TNC'S, DSS tv computer on ANY HF frequency. The grounding plate solved  
> all these problems.  
>  
> Just trying to point you in another direction from blaming the source.  
> 73, Larry KN4IM  
>  
>  
>

That sounds great Larry, but now I have to consider is it worth it when  
no other software package besides APRS is causing any problems. I have  
four grounding rods right outside the wall of the shack, where everything  
is grounded. the closes antenna end on my dipole is 60 feet away. Will  
try a few things but like I say I really do not want to go head over  
heels for one software program.

Thanks for the info Larry it is very worthwhile. 73's

Brad

---

## 192. Re: [APRSSIG:2212] Re: RUNNING APRS IN BACKGROUN

From: Ryan Tucker <rtucker@worf.netins.net>  
Date: Wed, 12 Jul 1995 22:39:01 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507130339.WAA29757@worf.netins.net>  
Rendered body type: text/plain

hasan schiers babbled this...

>  
> On Wed, 12 Jul 1995 01:02:21 -0500 you wrote:  
>  
> >  
> >Barbara, I have no idea what mode APRS selects - but it's one that  
> >neither Windows nor OS/2 like. You can limit it under OS/2 to CGA  
> >graphics, but this loses all color.  
> >  
> >As far as I know, the video mode doesn't change while running.  
> >  
> >  
> Running OS/2 Warp Connect here and after months of running OS/2 2.10  
> up thru the latest finally had to give up and put on a dedicated 286 clone.  
> APRS video mode is not supported in a window, nor will it run properly  
> even in full screen background. Full screen foreground is fine, but kind of  
> silly for a multi-threaded, multi-tasking operating system.

>

If anyone is still using DesqView (it's been ages since i've used anything DOS), APRS runs halfway successfully in the background, but with the wrong combo of programs, \*dead\*.

>From what I see here and from what I've experienced (I won't even try to talk about what happened with Windows 3.0... gives me nightmares), APRS is not multitasking-friendly.

Anybody working on a version for Linux? ;-)

73 de N0PBS, computerless, packetless, and radioless -- I'll never look at lightning the same ;-P

--

Ryan Tucker, aka HoopyCat  
rtucker@worf.netins.net  
<http://www.netins.net/showcase/rtucker>

Finger rtucker@worf.netins.net for PGP Public Key

---

## 193. UFO's On Packet

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 13 Jul 1995 01:55:41 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: horzepa@gdc.com  
Message-ID: <Pine.SUN.3.91.950713011952.14188A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Stan Horzepa's Packet Perspective in this months QST is all excited about the potential for meteor scatter via 2m packet. I was going to respond to him, but thought I would share it with the sig.

There is no better network on 2 meters than APRS for seeing meteor scatter, if it exists:

- 1) hundreds of stns nationwide are pinging on one freq, 145.79 24 hrs/day
- 2) 40% of the pings contain the stations exact POSIT
- 3) those same hundreds of stations are LISTENING 24 hours a day
- 4) EVERY SINGLE PACKET is being CAPTURED AND DISPLAYED
- 5) If a single packet gets a meteor bounce, then IT WILL BE KNOWN instantly to all who see it, not only by its LOCATION on the map but also its capture on the L-LIST, and its time of receipt on the HEARD page. Its path on the D-PAGE will show its UNPROTO path which will instantly tell you if it came terrestrially or was an UNIDENTIFIED-FLUKE-ON-PACKET (UFO-packet).

Now, that said, and my personal interest in M-scatter, I have ALWAYS kept an eye out for UFOs on APRS, convinced that it was the ideal mechanism for such a demonstration. I said all of this to aprssig, because I hope everyone else here realizes what a tremendous tool APRS is for capturing unusual propagation phenomenon.

BUT! in 4 years of monitoring, 24 hours a day, 365 days a year, I have only seen ONE meteor scatter packet. It was a K8 probably from OHIO. I got his BText, but not a posit (50/50 chance). It was 3 years ago (back when OHIO was about the only other APRS state on the air). IT was during a meteor SHOWER. After reading up on meteor scatter, I then found out how very poor 2m M.S. is even theoretically, with High power and BEAMS, and all of my experience to date re-enforces that.

There are a few things that could improve the chances, higher power and shorter packets. We probably dont want higher power on our APRS nets, but making our packets shorter is certainly possible. So keep your eyes open guys! With todays HF gateways popping up everywhere, it takes a little closer look to see how the pakekt got to you, but if it has GATE in its path, then HF is a sure bet.

STAN, if you do persue setting up an MS test on 2m, I would absolutely recommend APRS UI frames in the GridSquare mode. Total packet length:

WB4APR>CQMS: [FM19sx]

---

## 194. A long day. Hi Ho

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 13 Jul 1995 02:21:43 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950713015544.14188B@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

You all know of my wife's "love" for APRS. Yesterday I noticed that a thunderstorm had wiped out the WIDE that is smack in the middle of the East coast APRS backbone. Last night I was informed that it was alive and well, but on the INPUT of the 146.61 voice repeater! So I informed the wife of the 150 mile round trip to fix it. (Grumble) Now, I won't bore you with how a 3.5 hr job turned out to be 5.5 hrs, and how without a portable APRS with me, I couldn't wait to get home and see if it was back on the air. It wasn't. In fact, nothing was showing on my screen for the last 2 hours, exactly, about the time I left the site (the 2nd time)! As I was depressed and sullen, my wife took pity and treated me kindly. After a short chat she reminded me how she was getting tired of hearing those packets in the den... ARGH!!!! I raced into the den, and found the volume turned down! VOWALLA! In 10 minutes the net emerged, alive and well! During those 10 minutes we both read a little bit; her a mystery, and I, the NEW QST.. an article about how HI HI evolved from HEE HEE, which was from the old AMERICAN MORSE code for HO HO...

Anyway, the lights went out at 1 AM, bed time. A few minutes later, she asked in a pesky voice, WHAT are you doing???... My sheepish reply, Taping out Hi Hi, Hee Hee, Ho Ho on my chest... and scratching...?

Well, I have two hands, and I WAS curious how the difference in Hi, Hee and Ho sounded...

Maybe it's just late, but we BOTH got a laugh out of that one.. Boy we HAMS are really weird sometimes...

---

## 195. Re: [APRSSIG:2204] Sugestions ???

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 13 Jul 1995 02:26:23 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950713022242.14188C-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Wed, 12 Jul 1995 SDRoe@aol.com wrote:

>  
> I am trying to develop a system for Search & Rescue where I can give the  
> Search Teams one piece of equipment and we will be able to track them for the  
> Command Vehicle. I have been testing the PK-12 using a handheld and either a  
> Garmin 45 or Garmin 75. System is working fine in the configuration but I  
> need to get smaller and lighter.

APR REPLY: Your dream come true. Contact PACCOMM, their Pico-TNC is about the size of a pack of cigarettes AND can be ordered with an INTERNAL GPS! AND with an INTERNAL RADIO! (tho im not sure if you can GET both in the same TNC at the same time)

---

## 196. Space mode is acting wierd!

From: fehner@cts.com (Barbara Fehner)  
Date: Thu, 13 Jul 95 01:12 PDT  
To: aprssig@tapr.org  
Message-ID: <m0sWJ08-0002FfC@kickme.cts.com>  
Rendered body type: text/plain

I have been practicing for the up-coming Space Shuttle test and have found some strange things.

1. The Space mode does not set the Grid-Square mode. I have to set Grid-Square mode first and then set Space mode to get the grid square in my position and beacon packets.

2. When a position packet is sent I get the "Congratulations" message although my transceiver is DISCONNECTED! Good for the ego but not so good for a QSL.

3. The Space mode does not set "OTHERpacket" mode although "Grid-Square" mode does.

4. When a beacon packet is sent the following message is displayed:  
NO> LINK STATE IS DISCONNECTED  
and no beacon packet is sent.

I am using APRS 7b and an AEA PK232MBX with a serial port rate of 9600 Baud. Can anyone figure out what is going on?

Thank's for any help.

Barbara KK6IB  
E-Mail: fehner@cts.com

---

## 197. Thanks for Suggestions

From: SDRoe@aol.com  
Date: Thu, 13 Jul 1995 07:58:54 -0400  
To: aprssig@tapr.org  
Message-ID: <950713075854\_31782925@aol.com>  
Rendered body type: text/plain

Hi DE Sam,

Thanks for all the responses to my query for suggestions. I am looking at all and am open to any new ones you might have. This is a great group and I learn something everytime I read the mail.

73  
Sam Roe (KB7QQQ)  
South Hill of Puyallup, Wa.  
N 4707.25  
W 12215.07

---

## 198. Re: [APRSSIG:2216] Re: RUNNING APRS IN BACKGROUN

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)  
Date: Thu, 13 Jul 95 14:05:01 MET DST  
To: aprssig@tapr.org  
Message-ID: <9507131205.AA27576@sunrise.e-technik.uni-ulm.de>  
Rendered body type: text/plain

Ryan Rucker, rtucker@worf.netins.net, asked concerning APRS:  
> Anybody working on a version for Linux? ;-)  
>

APRS 6.6 seemed to work fine in the DOS emulator of LINUX on my Pentium here at work. I have not checked it on the air though - however the mouse on the serial port was handled properly.

Now if I only got a working TNC here :-(  
>

73,  
Hermann

--  
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de  
Dept. of Electron Devices and Circuits |  
University of Ulm, | office: +49 731 502-6152  
D-89069 Ulm, Germany | FAX: +49 731 502-6155

-----  
Help fight leukemia - we're closing in on a killer!

---

## 199. Meteor scatter 2

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 13 Jul 1995 09:15:31 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: horzepa@gdc.com  
Message-ID: <Pine.SUN.3.91.950713085613.15864A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

OOPS, it was 2 AM when I sent that last msg. I had said that we need more power and shorter packets to make APRS an excellent MS meteor DX tool. I left out BEAMS!, and I was talking about the ROUTINE. Now, I agree with Stan, hows this for a suggestion for MS events:

- 1) During meteor showers, ALL APRS stations nationwide configure for MS.
  - a) Set GridSquare mode for short packets
  - b) set unproto path to NONE, zip, nada
  - c) GO to highest power
  - d) E coast BEAMS WEST, Wcoast beams EAST. N to S and S to N
  - e) Everyone transmit under computer control on the 15 sec period. N, S, E, then West or whatever is the standard.
- 2) I will program a special MS MODE which will do most of the above, Plus it will compare all incoming reports and plot them. It will ring bells and whistles when it sees posits beyond 400? miles...

Input I need from the experts to do this:

- a) Which region transmits on which 15 sec period?
- b) What is minimum range for the alarm lockout circle

CAVEATS: The success of this venture will be how well we can get ALL APRS stations nationwide to go into MS mode for the 12 hour periods (or whatever) of the major MS events. If each user of this SIG would send out a local BLTN as these events approached, then I would expect the word could get out pretty quickly.

NEW IDEA: This SIG needs an APRS.BK file which plots EVERYONE on this SIG!  
SEE NEXT MESSAGE!

---

## 200. SIG.bk BACKUP FILE!

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 13 Jul 1995 09:55:24 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: horzepa@gdc.com  
Message-ID: <Pine.SUN.3.91.950713091533.15864B-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Keith? or anyone that knows how to write LISTSERVers, we need an automatic program that allows every member of this SIG to report his POSIT. The LISTSERV or automatic program would use these reports to BUILD an ONLINE SIG.BK file! Then, instantly, anyone on this sig could load it into APRS and see where everyone else is.

One immediate use of this, would be to see how much of the US is covered, and if there are any dead spots. This info would BE IDEAL IF WE COULD GET IT NOW DURING THIS APRS-SAREX DEMO!!!

Who ever writes this utility, just tell us the exact format for the message, and we will send them to the address you specify. If anyone can do this, let me/us know ASAP.

---

## 201. Re: [APRSSIG:2224] SIG.bk BACKUP FILE!

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Thu, 13 Jul 95 10:34:44 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.805646084.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

To start of with lets do the following..

Have EVERYONE send a SHORT message with your POSIT info to ME,

!!!!!!!!!!!!!!!!!!!!  
!!!NOT THE SIG!!!  
!!!!!!!!!!!!!!!!!!!!

I will write code to handle this and then at the end of the weekend, I will compile it and send it out as a HST file or what ever is appropriate so we can see who is actually on the net.

In the meantime, there is some MUCH better work being done for using the Net to do this type of stuff WITHOUT using a list-server, and this is being worked on by us,

Keith Sproul

AGAIN!!! DO NOT SEND YOUR POSITS TO THE ENTIRE SIG..

SEND THEM TO ksproul@noc.rutgers.edu

Keith

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services                                                 | 908 445-3695 Work       |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home       |

---

## 202. Standard Notation for L/L

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Thu, 13 Jul 1995 09:38:33 -0500  
To: aprssig@tapr.org  
Message-ID: <9507131438.AA31826@omnifest.uwm.edu>  
Rendered body type: text/plain

After "lurking" on this list for awhile - it occurs to me that we need to agree on a standard for Latitude - Longitude notation.

1. N dd mm ss  
W dd mm ss
2. N dd.mmmm (etc)
3. N dd.mm.ss

Tha above w/o the N & W (which are assumed)

4. ddm. mm/ddmm. mm

So when I see a numeric string - how should I interpet it. I would assume the first two digits are degrees - the second two are minutes BUT are the 5th and 6th digits seconds? or min/100 (hundredth of minutes)????

Just thought that I'd throw it out for discussion.....

CUL & 73 de Dave

=====

David W. Barrow III \* Amateur Radio:N9UNR \* Internet:dbarrow@omnifest.uwm.edu  
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603  
Ma Bell:(414) 375-2667 \* Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM  
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham  
=====

---

### 203. Re: [APRSSIG:2222] Re: RUNNING APRS IN BACKGROUN

From: Ryan Tucker <rtucker@worf.netins.net>  
Date: Thu, 13 Jul 1995 09:53:33 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507131453.JAA25622@worf.netins.net>  
Rendered body type: text/plain

Hermann Schumacher babbled this...

>

> Ryan Rucker, rtucker@worf.netins.net, asked concerning APRS:

> > Anybody working on a version for Linux? ;-)

> >

>

> APRS 6.6 seemed to work fine in the DOS emulator of LINUX on my Pentium here

> at work. I have not checked it on the air though - however the mouse on the

> serial port was handled properly.

>

> Now if I only got a working TNC here :-)

Hmmm... does DOSEMU work with the recent kernels now? It's been awhile since I played with it.

I need more comports -- all 4 of them are taken (TNC, Ultimeter II, Modem 1, Modem 2) -- i'm mouseless. :-)

--

Ryan Tucker, aka HoopyCat  
rtucker@worf.netins.net  
<http://www.netins.net/showcase/rtucker>

Finger rtucker@worf.netins.net for PGP Public Key

---

### 204. Re: [APRSSIG:2225] Re: SIG.bk BACKUP FILE!

From: Andy Farnsworth <farnsaw@BELMONT.EDU>  
Date: Thu, 13 Jul 1995 10:15:50 -0600  
To: aprssig@tapr.org  
Message-ID: <9507131015.AA50052@Farnsworth.belmont.edu>  
Rendered body type: text/plain

Keith,

You probably need to post the format you want for the messages.. give and example like:

-----

Name, Address, Phone Number, etc.

-----

That being the whole message! (what is between the lines.)

I know that I am unsure exactly what makes up a POSIT and don't want to flood you with unusable info. Being a new user of MacAPRS I don't know all the terms yet. Thanks for listening (reading? ;-)

More as it happens...

---

### 205. Re: [APRSSIG:2221] Thanks for Suggestions

From: philkeys@olympus.net (Phil Keys)  
Date: Thu, 13 Jul 1995 08:22:03 -0800  
To: aprssig@tapr.org  
Message-ID: <v01510101ac2af5cb91e7@[198.133.237.34]>



Rendered body type: text/plain

Hi Sam

Let me know what you get going. Just bought a Garmin GPS-45 to put in my pack. I like the idea of a "standard" GPS instead of an OEM board is that the standard unit has display, etc. and can be used standalone. Plus the standard GPS's are no more expensive. But an OEM board is a more compact and durable package.

So far we use GPS mostly for positioning helicopters so they are in the correct search area, in position to observe ground teams and to do pickups.

One of our problems with ground team communication is lack of VHF line of sight while teams are in canyons and valleys or base camp is behind a ridge. As a result we mostly use repeaters which cover the east Olympics. What we really need is a digipeater with the same kind of coverage. Even then, getting out is a problem. For example from the climber's camp for the Brothers, I had to jump from log to log over the stream to find a "hot spot".

73 and good luck

Phil  
KJ7ET

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue  
Software Consultant - specializing in software safety & SQA  
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

---

## 206. Countdown: STS-70 SAREX Mission (fwd)

From: Greg Jones <gjones@tenet.edu>  
Date: Thu, 13 Jul 1995 10:36:37 -0500 (CDT)  
To: aprssig@tapr.org (BBS SIG mailing)  
Message-ID: <199507131536.KAA27170@Leslie-Francis.tenet.edu>  
Rendered body type: text/plain

Has anyone thought of reposting the Keps from the STS-70 mission to APRS SIG for the experiemet ? From AMSAT-KEPS.

Cheers - Greg, WD5IVD

---

Countdown: STS-70 SAREX Mission

The next Space Shuttle mission carrying the Shuttle Amateur Radio EXperiment (SAREX) payload on-board is currently slated for launch this morning, Thursday July 13 at 1341 UTC. The STS-70 Space Shuttle Discovery mission will carry Amateur Radio operator Donald A. Thomas, KC5FVF, and recent licensee Nancy J. Curie, KC5OZX, into a 28.5 degree inclination orbit for an 8 day mission. The primary objective of this flight is to deploy the last spacecraft in the current series of the Tracking Data Relay Satellite System (TDRSS).

Ten schools from the US and Argentina have scheduled ham radio contacts with the astronauts. Several of these school group contacts will be performed using AMSAT's worldwide network of telebridge stations. The telebridge allows students to talk to the astronauts through a remote ground station that is linked to the school though a phone bridge. The Goddard Amateur Radio Club, WA3NAN expects to retransmit some of these school contacts as part of their shuttle retransmission activities. A limited number of schools who wish to "eavesdrop" on the STS-70 school group contacts via a listen only phone connection are encouraged to send email to Frank Bauer, KA3HDO, with your request. Your request should include an explanation of how you are going to use this listen only dialog in your classroom setting. Mr. Bauer's e-mail address is ka3hdo@amsat.org.

Thanks to Frank Bauer, KA3HDO, of the SAREX Working Group for the preceding information.

The following are prelaunch Keplerian elements for tracking the space shuttle.

Two line set JSC-001 is predicted from 13 July at 1423 UTC to 13 July at 2008 UTC.

STS-70  
1 99970U 95194.62046583 -.00253378 00000-0 -85192-3 0 18  
2 99970 28.4669 326.3673 0004615 286.6946 73.3195 15.91124517 24

Two line set JSC-002 is predicted from 13 July at 2008 UTC to 14 July at 1906 UTC (after the satellite separation burn).

STS-70

```
1 99970U      95194.87144219 -.00026652 00000-0 -11039-3 0   23
2 99970 28.4677 324.4866 0023185 193.1645 166.8399 15.85477873 64
```

Set JSC-003 is after the orbit adjust burn. Since the majority of the SAREX activity will be during this last part of the flight, the two line set and AMSAT format are included for JSC-003. JSC-003 is predicted from 14 Jul at 1906 UTC to 21 July 95 at 1051 UTC.

STS-70

```
1 99970U      95195.81551904 .00017899 00000-0 55675-4 0   38
2 99970 28.4680 317.4832 0016417 154.9557 205.1895 15.89705110 217
```

Satellite: STS-70

Catalog number: 99970

Epoch time: 95195.81551904 = (14-Jul-95 19:34:20.84 UTC)

Element set: 003

Inclination: 28.4680 deg

RA of node: 317.4832 deg

Space Shuttle Flight STS-70

Eccentricity: .0016417

Prelaunch element set JSC-003

Arg of perigee: 154.9557 deg

Launch: 13-Jul-95 13:41:00 UTC

Mean anomaly: 205.1895 deg

Mean motion: 15.89705110 rev/day

Gil Carman

Decay rate: 1.7899e-04 rev/day^2

NASA Johnson Space Center

Epoch rev: 21

Checksum: 329

Thanks to Gil Carman, WA5NOM, at the NASA Johnson Space Center for the preceding Keplerian elements.

---

## 207. STS-70 Launched (fwd)

From: Greg Jones <gjones@tenet.edu>  
Date: Thu, 13 Jul 1995 10:41:55 -0500 (CDT)  
To: aprssig@tapr.org (BBS SIG mailing)  
Message-ID: <199507131541.KAA20907@Leslie-Francis.tenet.edu>  
Rendered body type: text/plain

According to Bill Bard:

From: "Bill Bard" <wtba@qmgate.eci-esyst.com>

Subject: STS-70 Launched

To: "BB Amsat" <amsat-bb@AMSAT.Org>,

STS 70 was launched at 9:41:55 AM EDT (1341:55 UTC) 7/13/95. Launch was delayed 55 seconds due to a minor problem/question.

---

## 208. PS/2 Special Mouse Port

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>  
Date: Thu, 13 Jul 1995 09:15:28 -0700 (PDT)  
To: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Cc: aprssig@tapr.org  
Message-ID: <Pine.HPP.3.91.950713090959.25318A-100000@napalm.ecst.csuchico.edu>  
Rendered body type: text/plain

Hello Bob, here is a little something to make your day. I know this has come up in the past and I thought I would ask if you have decided yet to incorporate it into one of your many version updates. For us who are using the IBM or Microsoft PS/2 mouse port and are mouseless on APRS are you considering the possibility of allowing us to use our mice in the near future? This is not a real big thing for someone who has been used to using the control keys and etc since version 5.8 or so.

Take care and have fun and thanks for the many hours of enjoyment you have given us all on APRS. 73's

Brad

---

## 209. Re: [APRSSIG:2220] Space mode is acting wierd!

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 13 Jul 1995 12:39:04 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950713122400.17966A@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Thu, 13 Jul 1995, Barbara Fehner wrote:

> I have been practicing for the up-coming Space Shuttle test:

> 1. The Space mode does not set the Grid-Square mode. I have to set  
> Grid-Square mode first and then set Space mode  
APR REPLY: OOPS, yes!

> 2. When a position packet is sent I get the "Congratulations" message  
> although my TNC is DISCONNECTED! Good for the ego but not for a QSL.  
APR REPLY: True, APRS is NOT trying to connect nor get a QSL... I don't  
think there is anyway to intersperse UI frames between connect REQ's.  
But if you are going to try to CONNECT, then go to O-C-T screen and be  
sure that MCOM is on and MCON is on so you can still monitor while  
connecting. Then use alt-X to exit back to APRS, NOT ESC. Since ESC will  
have APRS do the usual DISC first. Alt-X goes back to APRS but leaves  
TNC exactly as you left it in O-C-T. If you get a CONNECT, hopefully,  
APRS will return you to O-C-T mode automatically.

> 3. Space mode does not set "OTHER" mode although "Grid-Sq" mode does.  
> 4. When a beacon packet is sent the following message is displayed:  
> LINK STATE IS DISCONNECTED  
REPLY: APRS always sends a DISC command to the TNC whenever it sends a  
BEACON. This is to be sure that someone has NOT left you in CONNECT  
mode, which would take you off-line for APRS.

SUMMARY: Version 71 (not recommended for download) fixed problem 1 and 3.  
Ver 71a may be complete by Friday. I had not planned for APRS-SAREX to  
also permit simultaneous CONNECT-SAREX activity. I guess you make a  
choice...

---

## 210. Re: [APRSSIG:2226] Standard Notation for L/L

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 13 Jul 1995 12:53:46 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950713125134.17966E-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Thu, 13 Jul 1995, David W. Barrow III wrote:  
> After "lurking" on this list for awhile - it occurs to me that we need  
> to agree on a standard for Latitude - Longitude notation.

APR REPLY: I worked long and hard on coming up with the APRS standard to  
be as brief as possible. So for the purpose of this SIG, I hope everyone  
will use ddmm.hhN/ddmm.hhW exactly as is shown in all APRS posits.

---

## 211. Re: [APRSSIG:2225] Re: SIG.bk BACKUP FILE!

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 13 Jul 1995 13:16:57 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: ksproul@hardees.Rutgers.EDU  
Message-ID: <Pine.SUN.3.91.950713125448.17966F-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

KEITH wants all POSITS to go to him, but he neglected to suggest a format  
because he has not yet written the code. But his job will surely be easier  
if we all use the SAME format. Here Keith is MY input.

POS:W3ADO :3859.11N/07629.11W&Naval Academy

FORMAT: POS: this is an alert for Keith to SEARCH for  
Callsign padded to 9 spaces  
LAT/LONG in APRS format  
SYMBOL character & for gateway  
y for Beam antenna (DF resource)  
- home QTH  
. others.  
COMMENTS up to 35 characters

EVERYONE else send yours to KEITH, NOT THE SIG!  
His address ksproul@noc.rutgers.edu

---

## 212. Posits Request..

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Thu, 13 Jul 95 13:20:56 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.805656056.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

For those of you that have APRS or MacAPRS up and running, I would like your  
posit as it is sent from your computer over the air.. If you do NOT have  
this, then just send me your call sign and lat-lon in a simplistic form

The APRS format is:

callsign>APRS:!!ddmm.ssN/dddmm.ssWx

where dd or ddd is Degrees  
mm is Minutes  
ss is DECIMAL minutes  
x is STATION TYPE if you don't know, use '-'

Keith

|                                       |                         |
|---------------------------------------|-------------------------|
| Keith Sproul                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work       |
| http://www-ns.rutgers.edu/~ksproul/   | 908 821-4828 Home       |

---

### 213. Re: [APRSSIG:2230] Countdown: STS-70 SAREX Mission (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Thu, 13 Jul 1995 12:25:06 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507131725.MAA13121@solar.cs.tamu.edu>  
Rendered body type: text/plain

I'll do that.

73, gerry

--

|                     |                                      |
|---------------------|--------------------------------------|
| Gerry Creager N5JXS | * SAREX Co-Investigator              |
| gerry@cs.tamu.edu   | * A little radio that lets kids talk |
|                     | * to astronauts, and smile           |

\*\*\*\*\*

---

### 214. STS-70 element set JSC-001a (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Thu, 13 Jul 1995 13:51:36 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507131851.NAA14296@solar.cs.tamu.edu>  
Rendered body type: text/plain

> Subject: STS-70 element set JSC-001a  
> Date: Thu, 13 Jul 95 13:05:00 cdt  
> Message-Id: <3005614C@msmtp-out.jsc.nasa.gov>  
> Encoding: 27 TEXT  
> X-Mailer: Microsoft Mail V3.0  
>  
>  
>  
> STS-70  
> 1 23612U 95035A 95194.62110223 -.00253378 00000-0 -85192-3 0 13  
> 2 23612 28.4669 326.5971 0004615 286.6946 73.3195 15.91124517 27  
>  
> Satellite: STS-70  
> Catalog number: 23612  
> Epoch time: 95194.62110223 = (13-Jul-95 14:54:23.23 UTC)  
> Element set: 001  
> Inclination: 28.4669 deg  
> RA of node: 326.5971 deg Space Shuttle Flight STS-70  
> Eccentricity: .0004615 Element set JSC-001a  
> Arg of perigee: 286.6946 deg Launch: 13-Jul-95 13:41:54.985 UTC  
> Mean anomaly: 73.3195 deg  
> Mean motion: 15.91124517 rev/day Gil Carman  
> Decay rate: -2.53378e-03 rev/day^2 NASA Johnson Space Center  
> Epoch rev: 2  
> Checksum: 294  
>  
> Note: This element set is valid from the OMS-2 burn on July 13 at  
> 14:24:16 UTC until the TDRS separation burn on July 13 at  
> 20:09:13 UTC.  
>  
>  
>  
> Gil Carman  
>  
>  
>

--  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

## 215. test -- ignore

From: Ryan Tucker <RTUCKER@dsm1.dsmnet.com>  
Date: Thu, 13 Jul 1995 14:50:10 -0500 (CDT)  
To: aprssig@tapr.org  
Cc: RTUCKER@dsm1.dsmnet.com  
Message-ID: <950713145010.d25@dsm1.dsmnet.com>  
Rendered body type: text/plain

Apologies for the test message -- making sure the subscription to the new account works. :-)

---

## 216. STS-70 element set JSC-004 (fwd)

From: Gerald J Creager <gergy@cs.tamu.edu>  
Date: Thu, 13 Jul 1995 15:25:33 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507132025.PAA15940@solar.cs.tamu.edu>  
Rendered body type: text/plain

> Subject: STS-70 element set JSC-004  
> Date: Thu, 13 Jul 95 15:14:00 cdt  
> Message-Id: <30057F80@msmtp-out.jsc.nasa.gov>  
> Encoding: 23 TEXT  
> X-Mailer: Microsoft Mail V3.0  
>  
>  
>  
> STS-70  
> 1 23612U 95035A 95194.87210206 .00073094 00000-0 23108-3 0 47  
> 2 23612 28.4620 324.7442 0024281 195.1654 164.8261 15.85289896 67  
>  
> Satellite: STS-70  
> Catalog number: 23612  
> Epoch time: 95194.87210206 = (13-Jul-95 20:55:49.61 UTC)  
> Element set: 004  
> Inclination: 28.4620 deg  
> RA of node: 324.7442 deg  
> Eccentricity: .0024281  
> Arg of perigee: 195.1654 deg  
> Mean anomaly: 164.8261 deg  
> Mean motion: 15.85289896 rev/day  
> Decay rate: 7.3094e-04 rev/day^2  
> Epoch rev: 6  
> Checksum: 301  
>  
>  
> Gil Carman  
>  
>

--  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gergy@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile  
\*\*\*\*\*

---

## 217. Re: [APRSSIG:2233] Re: Space mode is acting wierd!

From: fehner@cts.com (Barbara Fehner)  
Date: Thu, 13 Jul 95 13:38 PDT  
To: aprssig@tapr.org  
Message-ID: <m0swV1R-0001zgC@kickme.cts.com>  
Rendered body type: text/plain

>On Thu, 13 Jul 1995, Barbara Fehner wrote:  
>  
>> 2. When a position packet is sent I get the "Congratulations" message  
>> although my TNC is DISCONNECTED! Good for the ego but not for a QSL.  
>APR REPLY: True, APRS is NOT trying to connect nor get a QSL... I dont  
>think there is anyway to intersperse UI frames between connect REQ's.  
>But if you are going to try to CONNECT, then go to O-C-T screen and be  
>sure that MCOM is on and MCON is on so you can still monitor while  
>connecting. Then use alt-X to exit back to APRS, NOT ESC. Since ESC will  
>have APRS do the usual DISC first. Alt-X goes back to APRS but leaves  
>TNC exactly as you left it in O-C-T. If you get a CONNECT, hopefully,  
>APRS will return you to O-C-T mode automatically.  
>  
Bob, Thank you for the info however I think you misunderstood my point. I said:  
  
>>2. When a position packet is sent I get the "Congratulations" message

>>although my transceiver is DISCONNECTED! Good for the ego but not  
>>so good for a QSL.

I meant that when I tell APRS to send a position packet to my TNC it shows me the "Congratulations" message even though my transceiver is physically disconnected from the TNC. ie. the packet is not being sent over the air hence it is not being digipeated!

73's,

Barbara KK6IB  
E-Mail: fehner@cts.com

---

## 218. SAREX ver 71a

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 13 Jul 1995 17:07:30 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950713165422.21167C-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

The APRS upgrade file 7bto71a.zip is being posted on  
ftp@tapr.org//tapr/SIG/aprssig/upload right now.  
Other upgrades and full version will be done later...

71a has the ability to set the time to next pass, and select N passes after that. When the pass occurs, then all timers are reset and your station begins sending posits affresh... AND decaying them in the usual doubling fashion... then adds 92 minutes and begins again, N times. This was so you can set up for un-attended operation while you are at work.

Use the W key in INSTANTRACK to show you the time to next pass.

I guessed at 92 minutes. This mission may be closer to 90, so your choice of a start time will be a compromise across the usual 3 orbits you might see. See the new copy of SPACE.txt

I made this NEXT-PASS feature for registered users only, since this is a precursor for an APRtrak program that I am writing for AMSAT and because we want control over the number of stations on the uplink for now..

---

## 219. Re: [APRSSIG:2241] Re: Space mode is acting wierd!

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 13 Jul 1995 23:19:44 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950713231349.21806B@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Thu, 13 Jul 1995, Barbara Fehner wrote:

>

> I meant that when I tell APRS to send a position packet to my TNC it shows  
> me the "Congratulations" message even though my transceiver is physically  
> disconnected from the TNC. ie. the packet is not being sent over the air  
> hence it is not being digipeated!

APR REPLY: Then you have a cross connected path for your transmit audio to get somehow back into your receive audio such that your own TNC is seeing itself. This is NOT normal. Disconnect the radio audio cable at the TNC and see if it persists. IF so, maybe there is a TNC type that has this engineering flaw. What type is it?? WORK AROUND is to set Grid Square mode only. Only difference in SPACE mode IS the congrats message... (and in 71a, the ability to work the bird unattended. Un attended will NOT work with this problem, cuz as soon as you get the congrats message, then your timers are maxed out so that you are forced to STOP xmitting...

---

## 220. [APRSSIG:2229] RE: THANKS

From: jeff.brenton@espi.com  
Date: Fri, 14 Jul 95 00:56:03 -0500  
To: aprssig@tapr.org  
Message-ID: <9507140056.01B940A@espi.com>  
Rendered body type: text/plain

Phil Keys typed, "What we really need is a digipeater with the same kind of coverage."

With packet, all the helicopters can be digipeaters, or a tethered balloon can be sent aloft with a digipeater, etc. Digipeaters can be a lot smaller than full-duplex voice repeaters...

## 221. STANDARD Notation

From: jeff.brenton@espi.com  
Date: Fri, 14 Jul 95 00:56:08 -0500  
To: aprssig@tapr.org  
Message-ID: <9507140056.01BBM0A@espi.com>  
Rendered body type: text/plain

David W. Barrow III suggest a standard for notation - I think we should stick with the APRS notation, since it makes sense.

4218.76N/08825.54 is 42 degrees, 18.76 minutes North, 088 degrees, 25.54 minutes West. Works for me, since most LORAN and GPS receivers output in hudredths of a minute, rather than seconds...

---

## 222. Garmin 55AVD and APRS

From: jeff.brenton@espi.com  
Date: Fri, 14 Jul 95 00:56:10 -0500  
To: aprssig@tapr.org  
Message-ID: <9507140056.01BCU0A@espi.com>  
Rendered body type: text/plain

Bob, the Garmin 55AVD outputs the altitude as part of a proprietary sentence, the \$PGRMA sentence, to be exact. It does not output any sentence that includes the position in all three dimensions.

This sentence consists of:

\$PGRMA,nnnnn,F,\*nn

where the \*nn is the standard checksup, the F means "feet" (I presume, but did not test to see, that it outputs M for metres, and the nnnnn is the altitude.

When I fed APRS the stream I captured from a trip around the country block (about 10 miles), it rejected all the \$PGRMAs, as I kind of expected. Any chance of a future version parsing this sentence, so my aeronautical mobile trips will actually LOOK /AM?

---

## 223. [APRSSIG:2226] Standard Notation for L/L

From: Appleton <S=Appleton%S=Appleton%G=K%I=P%TEXACO@mcimail.com>  
Date: Fri, 14 Jul 95 02:17 EST  
To: APRSSIG <aprssig@tapr.org>  
Message-ID: <60950714071706/0004365529D41X4@MCIMAIL.COM>  
Rendered body type: text/plain

To: 95157013--P0

\*\*\* Reply to note of 07/13/95 11:40

From: K.P. Appleton CPI Rumbai, Indonesia  
\_\_\_\_ Phone -- CTN 8-46-42142 (Work); 8-46-43088 (Home)  
\_\_\_\_ TEXNET 8-45-42142 (Work); 8-45-43088 (Home)

Subject: [APRSSIG:2226] Standard Notation for L/L

Re the suggested formats for "standard" Lat/Long. Please do NOT assume that the posits are N and W!!! mine are N and E and, as I live a few km from the equator, a buddy of mine is S and E. By-the-way Bob, I created a track file from a 100km trip round here and attempted to load it into Mapfix6.8 to create a map. Nothing there. I finally found the track somewhere north of the Galapagos Islands!! - In mirror image form. The program assumed that the Long was east. After changing a line of code it now works fine (I don't think that this was your program though - someone else supplied it to you).

Also thanks to those who helped me figuring out how to download the Garmin45.

>From Keith P. Appleton  
92221132--P0 or XKAPPL at X400 or EXPKPA at VMCP11  
Internet Address: SN=APPLETON%G=K%I=P%TEXACO@mcimail.com

---

## 224. APRS at the Atlanta Hamfest this weekend

From: rwf@mindspring.com (rwf)  
Date: Fri, 14 Jul 1995 07:32:09 -0400  
To: aprssig@tapr.org  
Message-ID: <199507141132.HAA27517@dylan.mindspring.com>  
Rendered body type: text/plain

We have a very active and interested APRS Group down here in Atlanta. Well... maybe not a Group, in the sense of organization, but at least a lot of users. This, of course, leads to a lot of conversation about APRS on the local voice repeaters, and a lot of questions regarding our upcoming GPS/ATV/APRS weather balloon flight scheduled for July 29th.

Since a Hamfest is happening this weekend, we thought this would be a good time to officially introduce local Hams here to APRS. I'm a very active ATVer and our ATV demos and info sessions have been very popular here. I spoke with Gwyn at Paccomm about the possibility of some similar type of APRS demo, possibly jointly done.

The way it ended up is that Gwyn is allowing several of us to perform the APRS demo that he normally does. We will set up right in his Vendor booth and be operating on the local APRS net live. I plan to have a RELAY in the car or on a nearby parking garage. Gwyn will be able to concentrate on his business, and we will have a known point of visibility for the local folks.

Bob has agreed to let us distribute the APRS disk there. He suggested we distribute 7B. We will include a special MAPLIST.GA that I have been working on that customizes for the N GA, Alabama and TN area. We'll ask for a very small contribution for the shareware disk, all of which will go to our WIDE-RELAY digi fund. We will also strongarm :) people into registering their programs. Several unregistered locals have told me that they plan to register just because of the convenience. We're working out a scheme with Bob that will allow us to give these people their numbers the following day.

We are looking forward to this activity and sure think it can benefit our local net and APRS in general. I will let y'all know how this works out.

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: [ftp.mindspring.com/users/rwf](ftp://mindspring.com/users/rwf) for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

---

## 225. Re: [APRSSIG:2246] Garmin 55AVD and APRS

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Fri, 14 Jul 1995 07:59:25 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507141259.HAA24032@solar.cs.tamu.edu>  
Rendered body type: text/plain

jeff.brenton@espi.com sez:

>

>

> Bob, the Garmin 55AVD outputs the altitude as part of a proprietary  
> sentence, the \$PGRMA sentence, to be exact. It does not output any  
> sentence that includes the position in all three dimensions.

Jeff, I thought the 55AVD also put out GGA. What I've seemed to notice is that the RMC sentences seem to get grabbed by APRS and the GGA sentences are lost in the clutter because of the frequency of output. RMA is a separate altitude output altogether, if I'm not mistaken.

73, gerry

--

Gerry Creager N5JXS

gerry@cs.tamu.edu

\* SAREX Co-Investigator

\* A little radio that lets kids talk

\* to astronauts, and smile

\*\*\*\*\*

---

## 226. SAREX callsign

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Fri, 14 Jul 1995 08:24:41 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507141324.IAA24349@solar.cs.tamu.edu>  
Rendered body type: text/plain

The digi callsign for SAREX is W5RRR-1. It's not W5RRR. N6JLH noted someone in his area trying to digi thru W5RRR last night and let me know. It'd have to be one heck of a band opening to get from California to Houston for THAT digi path!

73, gerry

(W5RRR digi is at NASA's Johnson Space Center; W5RRR-1 is at an altitude of 161 nm)

--



Gerry Creager N5JXS  
gerry@cs.tamu.edu

\* SAREX Co-Investigator  
\* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

## 227. SAREX

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Fri, 14 Jul 1995 11:01:20 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950714103601.24103A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Well, I figured out better ways to do the unattended SAREX mode than what I put in 71a. Hope to finish these today in 71b: (Wait for 71b if u havent gotten 71a yet)

1) We should avoid using the standard TO: APRS generic callsign!!! No sense putting such an easily recognizable callsign for a test. It will just give ammunition to the NAY-sayers who will attack us... as QRMing the normal ROBOT SAREX CONTEST mode.

FIX: APRS version 71b will use the TO call of QTH for all Grid Square modes (including SPACE) which also makes the packet appear shorter.

WORKAROUND: For 71 and later, use alt-S-MODE-altNet. Then do an alt-S-TNC to save the new call of ALTNET. Then check to be sure that controls is still at OTHER.. For earlier versions, do an O-C-T and manually type in your UNPROTO QTH VIA W5RRR-1. But this will need to be done frequently, since any UNPROTO or DIGI command in APRS will overwrite this back to TO APRS...

After watching the unattended mode, it works, but only for the first orbit and second one if 2 was the initial number of orbits. If you start at 3 or higher, then it screws up and adds N\*92 minutes to the next pass time.

OBSERVATION: I have noticed MIR using voice (in russian) with Houston on most morning passes. They go to sleep around midday (They sleep on a Moscow schedule)

Shuttle also has voice contacts, so be ready to hit CONTRROLS-X to cease transmitting packet during voice. Not a problem on SAREX which has a separate uplink of 144.49. Both MIR and SAREX downlink on 145.55.

## 228. Re: [APRSSIG:2249] Re: Garmin 55AVD and APRS

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Fri, 14 Jul 1995 11:34:24 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950714113240.24103G@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Fri, 14 Jul 1995, Gerald J Creager wrote:

>

> Jeff, I thought the 55AVD also put out GGA. What I've seemed to notice is  
> that the RMC sentences seem to get grabbed by APRS and the GGA sentences are  
> lost in the clutter because of the frequency of output.

APR REPLY: In most recent versions, you can use the alt-S-GPS-GGA command to specify GGA only so that you get GGA with its altitude and it will ignore any RMC's which it normally grabs first. At least that was my intention with that command...

## 229. Re: [APRSSIG:2251] SAREX

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Fri, 14 Jul 1995 11:18:03 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507141618.LAA26687@solar.cs.tamu.edu>  
Rendered body type: text/plain

The early morning Mir voice contacts are to W5RRR, and they're talking to the Russian Astronauts training there, usually. Sometimes it's a chat, sometimes, it's technical. There are times in their orbit when ham radio's much more reliable than Mir-Comm.

73, gerry.

ps: Good points re: voice contacts. Please be sensitive to this. Further, if you happen to be band-scanning and hear the Shuttle doing voice ops on another frequency than 145.55, remember that this is a school or a crew-family

contact and let 'em go on.

Thanks, gerry

--

Gerry Creager N5JXS  
gerry@cs.tamu.edu

\* SAREX Co-Investigator  
\* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

---

## 230. Re:SAREX

From: seront@seism1.ess.sunysb.edu (Bernard Seront)  
Date: Fri, 14 Jul 1995 12:22:14 -0500  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <9507141621.AA05776@seism1.ess.sunysb.edu>  
Rendered body type: text/plain

>

> After watching the unattended mode, it works, but only for the first  
> orbit and second one if 2 was the initial number of orbits. If you start  
> at 3 or higher, then it screws up and adds N\*92 minutes to the next pass  
> time.  
>

Am I missing something: as each visibility window will be around 5 minutes,  
using unattended or automatic mode with aprs will result at most to 5  
packets sent to the shuttle, shouldn't we try with a much higher frequency  
(one packet every 10 or 20 sec?) if we want to digipeat something?

What I was thinking to do is just use a terminal program, change my beacon  
text to @FN30kw]Bernard , unproto QTH via w5rrr-1 , and if there is no voice  
qso or some packet activity appears, I fire the beacon and grab all the  
packets coming down. Treatment of the data can be done later. Sounds much  
simple this way.

Is there any minimum power or antenna requirements for this type of  
communications (never tried this before)? As the shuttle will be at least  
at 1400 km from my qth, with a maximum elevation angle above the south  
horizon of 8-10 degrees, looks like a difficult target. I have 20 watts max  
in a vertical omni antenna, is there any chance or will I just qrm for nothing?

Bernard, KB2TGH.

---

## 231. MAPFIX memory problems

From: jra@ag9v.ampr.org  
Date: Fri, 14 Jul 1995 10:02:03 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <199507141402.KAA31368@ag9v.ampr.org>  
Rendered body type: text/plain

I'm having trouble getting mapfix13 to load on my system. Even though I  
have something like 608k of free memory, this is what happens:

1. I load "qbasic mapfix" from the dos prompt.
2. I hit alt-R S to start the program.
3. I get the intro screen with the message to hit any key to go on to the  
help screen.
4. I hit a key, the screen goes blank, and in a few seconds I'm back in  
qbasic with an "Out of memory" message.

What am I doing wrong? The old mapfix68 didn't have this problem, but I'm  
seeing it with both versions 1.2 and 1.3

John

--

John Ackermann AG9V  
Internet: jra@ag9v.ampr.org  
Packet: AG9V@N8ACV.#DAY.OH.USA

---

## 232. Distance formula?

From: jra@ag9v.ampr.org  
Date: Fri, 14 Jul 1995 10:53:23 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <199507141453.KAA31469@ag9v.ampr.org>  
Rendered body type: text/plain

I'm working on a little program to take a history file and generate a summary of it, including the actual distance covered (measured from point to point). We're in the middle of moving, and all my reference books are packed away, so I wonder if anyone can send me the formulas to generate distance and bearing between two points specified in lat/long.

Thanks.

John

--

John Ackermann AG9V

Internet: jra@ag9v.ampr.org

Packet: AG9V@N8ACV.#DAY.OH.USA

---

### 233. APRS on 2M FM vs. Meteor Scatter

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>  
Date: Fri, 14 Jul 1995 12:02:17 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <950714120217.155c@dsm1.dsmnet.com>  
Rendered body type: text/plain

TO : aprssig@tapr.org  
FROM : Ralph Wallio, W0RPK wallio@dsmnet.com  
SUBJECT: APRS on 2M FM vs. Meteor Scatter  
DATE : 14 Jul 95

I have been lurking on this net for several months keeping up with APRS developments as they apply to our Iowa State University (ISU) Spacecraft Systems and Operations Laboratory (SSOL) High Altitude Balloon Experiments In Technology (HABET) program. We foresee

supporting the use of APRS in Iowa secondary school classrooms so that students can graphically monitor HABET missions either in real time or with HABET.HST files. (APRS track history files for HABET-5 and HABET-6 are available as habet5.hst aRecent discussion of mating APRS capabilities with meteor scatter

(METSCAT) communications triggers my PTT. APRS enthusiasts who will be going to significant effort to participate in future tests should be aware that their chances of success are very slim. The 2M METSCAT QSO between Rich Zwirko, K1HTV, and myself during a path peak of the 1984 Perseids shower took 2.5 hours of constant packet transmissions using METSCAT signaling standards. Minimal packets were transmitted in alternating 30-second intervals in each direction minute-after-minute until we finally, after 2.5-hours, collected the very meager METSCAT QSO information requirements.

Digital METSCAT operations on 2M by typical 1000W EIRP stations, when using standard 1200BPS AFSK on FM, and even minimal AX.25 packet lengths, will produce almost no copied packets. Here are the problem areas:

- |            |                                                                                                                                                                                                                                                                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 144MHz     | The time constant of the vast majority of meteor trails is too short at 144MHz to allow useful data transmission. Operations on 6M (or even 10M as we approach the solar minimum) would radically improve performance.                                                                                                                              |
| Power/gain | Antenna gain of 10dBd is reasonable in that higher gain, and narrower beamwidth, would illuminate fewer trails. Success, however, will be greatly dependent on output power delivered to the antenna ... think 1000W, not 100W.                                                                                                                     |
| AFSK on FM | Inexpensive AFSK (Audio Frequency Shift Keying) demodulators in most of our TNCs require almost full quieting signals to produce copied packets. Signal strength yielding 15dB of SNR almost never happens on 2M METSCAT. Other modulation schemes, e.g., PSK and MSK (Phase Shift Keying and Minimum Shift Keying), require considerably less SNR. |
| 1200BPS    | Our usual signaling speed, 1200BPS (when using binary AFSK, 1200BPS is also 1200 Baud), is too slow for dependable success, even at 6M. Think of using 4800 or 9600BPS to radically decrease required time constants.                                                                                                                               |
| AX.25      | Even minimal AX.25 packets are usually too long. We only have control over the the number of bytes in the data field. We have very little control                                                                                                                                                                                                   |

over AX.25 packet header length (by not using digipeating addresses). Packet METSCAT protocols with considerably less overhead (and correspondingly less flexibility) have been developed. They are not, however, directly applicable to routine TNC operations.

Numerous commercial and military METSCAT networks are in operation handling routine and priority traffic. These networks are optimized in operating frequency, modulation schemes and data formats. METSCAT works, but not on 2M, not when using 1200BPS AFSK on FM, and not with AX.25. Experimenters who are interested in optimizing their stations and operating methods for successful digital METSCAT communications can take direction from these developed networks.

Regards, Ralph Wallio, WØRPK  
Middle River Valley Radio Observatory  
1250 Highway G24  
Indianola, Iowa 50125

515-961-0383  
wallio@dsdmnet.com  
WØRPK@WØAK.IA

---

## 234. DCC Paper Deadline!

From: Greg Jones <gjones@tenet.edu>  
Date: Fri, 14 Jul 1995 13:40:11 -0500 (CDT)  
To: tapr-bb@tapr.org (TAPR-BB mailing), netsig@tapr.org (NETSIG mailing),  
bbssig@tapr.org (BBS SIG mailing), hfsig@tapr.org (HF SIG mailing),  
dsp-93@tapr.org (DSP-93 Build), aprssig@tapr.org (BBS SIG mailing),  
amsat-bb@amsat.org (AMSAT BB Mail Group)  
Message-ID: <199507141840.NAA28968@Leslie-Francis.tenet.edu>  
Rendered body type: text/plain

Don't forget -- Friday, July 21st! Deadline for ARRL DCC Article Submissions  
-----

- \* Anyone interested in digital communications is invited to submit a paper for publication in the Conference Proceedings. Articles are welcome on any aspect of digital communications.
- \* Presentation at the Conference is not required for publication.
- \* Papers are due by July 21, 1995, and should be submitted to  
Maty Weinberg, ARRL, 225 Main Street, Newington, CT 06111 or via the  
Internet to mweinberg@arrrl.org
- \* Please contact Maty for detailed format requirements.
- \* It is not too late to start writing!

---

If you think you will be late in submitting your paper(s), contact Maty to arrange details.

---

14th Annual ARRL Digital Communications Conference  
September 8-10th, 1995  
Arlington, Texas (minutes from DFW airport)

The ARRL Digital Communications Conference is an international forum for radio amateurs in digital communications, networking, and related technologies to meet, publish their work, and present new ideas and techniques for discussion. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. The Digital Communications Conference is not just for the digital elite, but for digitally-orientated amateurs of all levels of experience.

For further information:

E-Mail: TAPR@TAPR.ORG  
Web : <http://www.tapr.org/tapr>  
ftp : [ftp://ftp.tapr.org/tapr/95\\_DCC\\_Flyer.pdf](ftp://ftp.tapr.org/tapr/95_DCC_Flyer.pdf)

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### 235. Re: [APRSSIG:2254] Re:SAREX

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Fri, 14 Jul 1995 15:19:14 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950714151526.26119B@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Fri, 14 Jul 1995, Bernard Seront wrote about the APRS-SAREX:

>  
> Am I missing something: as each visibility window will be around 5 minutes,  
> using unattended or automatic mode with aprs will result at most to 5  
> packets sent to the shuttle, shouldn't we try with a much higher frequency  
> (one packet every 10 or 20 sec?) if we want to digipeat something?

APR REPLY: Yes, it will try only very briefly. and only for only a few  
mintes before it decays back to background level. This is intentional for  
UNATTENDED stations. If you are there during a pass, then use the  
CONTROLS-XMT-POSITS command to get a higher rate of packets.

---

### 236. Re: [APRSSIG:2257] APRS on 2M FM vs. Meteor Scatter

From: mark@tetherless.com (Mark Oppenheim)  
Date: Fri, 14 Jul 1995 12:02:17 -0700  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <199507141902.MAA10459@gorgor.pa.tetherless.com>  
Rendered body type: text/plain

At 12:38 PM 7/14/95 -0500, Ralph Wallio wrote:

>TO : aprssig@tapr.org  
>FROM : Ralph Wallio, W0RPK wallio@dsminet.com  
>SUBJECT: APRS on 2M FM vs. Meteor Scatter  
>DATE : 14 Jul 95

Stuff omitted...

> 144MHz The time constant of the vast majority of  
> meteor trails is too short at 144MHz to allow  
> useful data transmission. Operations on 6M  
> (or even 10M as we approach the solar minimum)  
> would radically improve performance.  
>  
> Power/gain Antenna gain of 10dBd is reasonable in that  
> higher gain, and narrower beamwidth, would  
> illuminate fewer trails. Success, however, will  
> be greatly dependent on output power delivered  
> to the antenna ... think 1000W, not 100W.  
>  
> AFSK on FM Inexpensive AFSK (Audio Frequency Shift Keying)  
> demodulators in most of our TNCs require almost  
> full quieting signals to produce copied packets.  
> Signal strength yielding 15dB of SNR almost never  
> happens on 2M METSCAT. Other modulation schemes,  
> e.g., PSK and MSK (Phase Shift Keying and Minimum  
> Shift Keying), require considerably less SNR.  
>  
> 1200BPS Our usual signaling speed, 1200BPS (when using  
> binary AFSK, 1200BPS is also 1200 Baud), is too  
> slow for dependable success, even at 6M. Think  
> of using 4800 or 9600BPS to radically decrease  
> required time constants.  
>  
> AX.25 Even minimal AX.25 packets are usually too long.  
> We only have control over the the number of bytes  
> in the data field. We have very little control  
> over AX.25 packet header length (by not using  
> digipeating addresses). Packet METSCAT protocols  
> with considerably less overhead (and correspondingly  
> less flexibility) have been developed. They are  
> not, however, directly applicable to routine TNC  
> operations.  
>  
> Numerous commercial and military METSCAT networks are in operation  
> handling routine and priority traffic. These networks are optimized  
> in operating frequency, modulation schemes and data formats. METSCAT  
> works, but not on 2M, not when using 1200BPS AFSK on FM, and not  
> with AX.25. Experimenters who are interested in optimizing their

>stations and operating methods for successful digital METSCAT  
>communications can take direction from these developed networks.

I've been following this thread with some interest, as I've been looking at the commercial systems for some time now.

I think what Ralph is talking about pretty much hits the nail on the head, technically. I agree that 50 MHz is probably the ideal band, and that FM at 4800/9600 baud is probably the transport mechanism that we want to use. As far as protocol, yes, there is some overhead in AX25, but until the next version comes out, (with some sort of broadcast protocol, as I've heard) then it's about the only thing that can be widely used. Of course, if someone were to implement some sort of Meteor Scatter KISS-mode "packet protocol" program, I doubt that there would be a problem getting a STA from the FCC, (should that be necessary) vis a vis the HF STA that covered many stations for a number of years.

The biggest stumbling block is to convince the many (ahem..) frugal hams to implement 4800 or 9600 baud systems.

As I understand the commercial systems, they have an algorithm that changes the packet size dynamically based on the link quality, but does this very fast. They achieve bit rates (from my memory) of around 300-800 baud using MS communications with moving vehicles on 40 MHz. Most of their systems operate at around 1KW (probably about 6-8 KW ERP) using split-site, full duplex base stations.

There's a boatload of 100W VHF FM lowband radios out there that would be ideal for either 10M or 6M service that are available in the under-\$100 price range from a number of dealers.

Mark  
KD6KQ

---

## 237. Garmin 55AVD and APRS

From: jeff.brenton@espi.com  
Date: Fri, 14 Jul 95 14:24:40 -0500  
To: APRSSIG@TAPR.ORG  
Message-ID: <9507141424.0K8TW02@espi.com>  
Rendered body type: text/plain

Gerald J Creager typed, "I thought the 55AVD also put out GGA."

Well, it gets confusing. The 55AVD \*manual\* says it outputs \$PGRMA sentences, but the unit itself (when set to NMEA 0183) puts out \$PGRMZ sentences. No \$PGGGA, unfortunately, either documented or actually output...

Looking at the captured output, I have the following:

```
$GPXTE  
$GPBWC  
$GPRMC  
$GPRMB  
$GPR00  
$GPGLL  
$PGRMZ
```

They are in that order, every 2 seconds. I wish it DID put out GGA, 'cuz I'd have the KPC-3 simply report that...

---

\* UniQWK v3.3a\*

---

## 238. APRS-SAREX ver 71b

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Fri, 14 Jul 1995 15:40:29 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950714152500.26119E-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

OK, I changed 71a as follows:

- \* SPACE mode now uses the TO address of QTH
- \* The unattended mode works for more than 2 passes
- \* I changed the default orbital period to 91 minutes. Using your orbital tracking program and deciding when to activate this mode will be crucial to un-attended success. When the timer times out, then your beacons are reset to about 4 seconds (Then they double on out as shown below)

```
P * * * * *  
B * * * * *
```

^0 min            ^1 min            ^2min            ^3min            ^4 min

Notice that the BCN and POSIT (identical packets) are each on their own and slightly different schedule, so that you do get about a 3 minute of raised activity (UNATTENDED)...

Of course if you are at your station, then hit XMT-POS as fast as you can and you will be able to produce about 1 packet every 8 seconds maximum... (still fewer than CONNECT REQUESTS!)

Im am now FTPing 7bto71b.zip to tapr.org....

P.S. Thanks to W0RPK for the insight to 2m MeterScatter. I hope you also sent it to Stan Horzempa...

---

### 239. STS-70 element set JSC-005 (fwd)

```
From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Fri, 14 Jul 1995 16:57:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507142157.QAA01465@solar.cs.tamu.edu>
Rendered body type: text/plain

> Subject: STS-70 element set JSC-005
> Date: Fri, 14 Jul 95 14:40:00 cdt
> Message-Id: <3006C910@msmtp-out.jsc.nasa.gov>
> Encoding: 23 TEXT
> X-Mailer: Microsoft Mail V3.0
>
>
>
> STS-70
> 1 23612U 95035A 95195.81651499 .00025000 00000-0 18713-3 0 56
> 2 23612 28.4627 317.7506 0021414 150.7002 209.4850 15.90210846 218
>
> Satellite: STS-70
> Catalog number: 23612
> Epoch time: 95195.81651499 = (14-Jul-95 19:35:46.89 UTC)
> Element set: 005
> Inclination: 28.4627 deg
> RA of node: 317.7506 deg
> Eccentricity: .0021414
> Arg of perigee: 150.7002 deg
> Mean anomaly: 209.4850 deg
> Mean motion: 15.90210846 rev/day
> Decay rate: 2.5000e-04 rev/day^2
> Epoch rev: 21
> Checksum: 265
>
>
> Gil Carman, W5JXS
```

```
--
Gerry Creager N5JXS * SAREX Co-Investigator
gergy@cs.tamu.edu * A little radio that lets kids talk
                  * to astronauts, and smile
*****
```

---

### 240. Re: [APRSSIG:2261] Garmin 55AVD and APRS

```
From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Fri, 14 Jul 1995 17:06:21 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507142206.RAA01639@solar.cs.tamu.edu>
Rendered body type: text/plain
```

Yup, you're correct. I just uncovered the manual and looked again. Really is a shame.

One of the problems I have with some of the equipment manufacturers is they implement a protocol like this and don't give the user some degree of control over what's output. trimble is one of the culprits, and Paul Evans and I have discussed. They just ship a couple of sentences out every second and that's that. At least their sentences are a little more useful, and less proprietary!

73, gerry

\*\*\*\*\*

\*\*\*\*\*



If anyone wants to hook up their 100W 6 meter FM radios for Mscat now, I will be happy to tell them what to put in their TNC unproto to transmit such packets. On the receive end, ANY APRS program will not only PLOT all stations heard, but the HEARD log will show HOW many packets per HOUR were heard from WHICH stations.

it would not take much to add in an APRS like message capability as well...  
Ralph, whaddya think?

---

## 243. Re: [APRSSIG:2261] Garmin 55AVD and APRS

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Fri, 14 Jul 1995 19:02:07 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950714185830.27108C-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Fri, 14 Jul 1995 jeff.brenton@espi.com wrote:

> Well, it gets confusing. The 55AVD \*manual\* says it outputs \$PGRMA  
> sentences, but the unit itself (when set to NMEA 0183) puts out \$PGRMZ

APR REPLY: ARGH!!!!!! Based on the info that someone sent me here, I changed the packet that APRS accepts from PGRMZ to PGRMA in version 71b. The reported format for RMA seemed to match what I already had in APRS for RMZ, so I assumed that I had a TYPO and so I changed RMZ to RMA. Now APRS will look for a PGRMA. OK guys which is which. and what is the difference?

---

## 244. un-attended next pass

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Fri, 14 Jul 1995 19:32:52 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950714192909.27284A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Well, just tried to set my rig to hit tomorrow mornings passes of SAREX and found out that my next-pass-timer will not work THRU midnight. so You cannot set too far in advance.. Im sure it will work if I set it AFTER midnight to get the 0655 first pass tomoorow morning.

---

## 245. Re: [APRSSIG:2261] Garmin 55AVD and APRS

From: rkramer@vaxxine.com (Ronald Kramer)  
Date: Sat, 15 Jul 1995 00:17:44 -0400  
To: aprssig@tapr.org  
Message-ID: <9507150417.AA13842@alpha.vaxxine.com>  
Rendered body type: text/plain

>  
>  
>  
>Gerald J Creager typed, "I thought the 55AVD also put out GGA."  
>  
On the Garmin 45 they have two different NEMA-0183 protocols  
1.5 and 2  
the 1.5 does not have GGA the 2 Does  
maybe the 55AVD has a similar option  
Regards, Ron ... 73 de Ron  
Internet: rkramer@vaxxine.com (Ron Kramer)  
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

---

## 246. Re: [APRSSIG:2269] Re: Garmin 55AVD and APRS

From: Howard Goldstein <hg@penny.n2wx.ampr.org>  
Date: Sat, 15 Jul 1995 01:27:33 -0400 (EDT)  
To: aprssig@dingus.n5lyt.datarace.com  
Message-ID: <Pine.LNX.3.91.950715012531.249A-100000@n2wx.ampr.org>  
Rendered body type: text/plain

On Fri, 14 Jul 1995, Ronald Kramer wrote:

> >  
> >  
> >  
> >  
> >Gerald J Creager typed, "I thought the 55AVD also put out GGA."  
> >  
> On the Garmin 45 they have two different NEMA-0183 protocols  
> 1.5 and 2  
> the 1.5 does not have GGA the 2 Does  
> maybe the 55AVD has a similar option

Don't know about Gerald but my (circa '93) 55AVD doesn't offer this option

Does GGA have altitude? I had thought the lack of an altitude sentence in my 55AVD was for liability reasons.

--

Howard Goldstein  
N2WX

hg@n2wx.ampr.org  
<http://www.tapr.org/~n2wx/>

---

## 247. GARMIN 55AVD and APRS

From: jeff.brenton@espi.com  
Date: Sat, 15 Jul 95 00:49:13 -0500  
To: aprssig@tapr.org  
Message-ID: <9507150049.015HW05@espi.com>  
Rendered body type: text/plain

I echo Bob's "ARGH!!!!!!!"

I just put both the manual for the 55AVD and the computer capture of the actual output side-by-side. Manual says \$PGRMA, but the unit itself definitely sent \$PGRMZ sentences. There is no mention in the manual of what the formats actually look like, so I have no way of knowing if they are identical.

---

## 248. Re: [APRSSIG:2269] Re: Garmin 55AVD and APRS

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Sat, 15 Jul 1995 08:40:18 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507151340.IAA09596@solar.cs.tamu.edu>  
Rendered body type: text/plain

Unfortunately, the 55AVD has only one flavor of NMEA-0183.

Bob, the sentences published in the manual are:

GLL, RMB, RMC, R00, WPL, XTE, and the proprietary RMA. I'll try to look at it later today and confirm those. Unfortunately, I've learned that the Garmin docs are not always accurate when pertaining to certain things...  
"Specifications and equipment subject to change without notice..."

73, gerry

--

Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

---

## 249. Re: [APRSSIG:2270] Re: Garmin 55AVD and APRS

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Sat, 15 Jul 1995 08:43:31 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507151343.IAA09626@solar.cs.tamu.edu>  
Rendered body type: text/plain

Howard Goldstein sez:

>

> Don't know about Gerald but my (circa '93) 55AVD doesn't offer this option

Nor does mine.

> Does GGA have altitude? I had thought the lack of an altitude sentence in  
> my 55AVD was for liability reasons.

GGA includes altitude. I suspect it was a lack of forethought or a conscious decision rather than consideration of liability. After all, the Nav position page has it.

73, gerry

--

Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

---

## 250. Re: [APRSSIG:2271] GARMIN 55AVD and APRS

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sat, 15 Jul 1995 15:19:39 -0400 (EDT)  
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.950715151741.28492B-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Sat, 15 Jul 1995 jeff.brenton@espi.com wrote:

>

> I just put both the manual for the 55AVD and the computer capture of  
> the actual output side-by-side. Manual says \$PGRMA, but the unit itself  
> definitely sent \$PGRMZ sentences. There is no mention in the manual of

SO, ar we all in agreement that GPRMZ is where aprs looks for altitude?  
If so, then it is already in recent eversions. Probably 7a and beyond.  
So now the questioin is, DOEA APRS PLOT YOUR ALTITUDE based on RMZ?  
I dont have an RMZ generator to have tested it.

---

## 251. Meteor Scatter proposal

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sat, 15 Jul 1995 15:45:56 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950715154224.28492G-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

The experts have informed us how poor the probabilities are for 2m comms via Mscatt. I believe them, and I believe that 6m is the place to build any lasting Mscat network. But since most of us will not ever get around to setting up a 6m system with new 4800 baud protocols, maybe a 2m special event during known Mshowers would be a great HAM challenge just for fun.

In this light, how about the following plan to attack the poor probabilities with FORCE! The best chances will be had with someone transmitting maximum power, all the time, using the shortest possible packets, and everyone else listening about 500 to 1500 miles away. Here is how hundreds of us can easily participate:

- 1) We designate four areas of the country to transmit for 15 seconds each
- 2) In each area, we identify as many possible 300W or stronger XMT volunteers
- 3) To prevent collisions, these XMT stations should be no closer than 200 or so miles fm each other (closer if different beam headings are used).
- 4) XMTs send short (.2 sec) packets continuously: WB4APR>FM19SX: ^
- 5) Receive stations use APRS to plot and count all heard packets

I can easily add a MS receive and transmit mode in APRS to handle the GRIDSQUARE-in callsign packets. The experts need to advise how many XMTRs and what their spacing must be to optimize throughput without causing collision problems.

P.S. I am not abandoning 6m tho. Todays A.R.Trader has an ad for hundreds of 50.675 FSK data receivers for \$9 each. The GE and MOTOROLA columns had adds for quantities of Hwy Patrol 100 watt LOW-BAND (6m) FM radios for abt \$40 each... If someone can figure out a NETWORK plan, I will be happy to write a protocol for packing data into SHORT ax.25 UI frames!

P.P.S. Since we can run 1200 baud on 10 meters, how does that compare with 6m, 2m?

---

## 252. APRS-SAREX

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sat, 15 Jul 1995 15:54:44 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950715154600.28492H-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

I got the one POSIT report from W4NMK, and I was at my kids swim meet when I heard packets on 145.55 at 0835 EDT or so. SO there was a sarex pass guys... Did anyone see anything? My home screen showed nothing when I got home, and Im sure no one herard me, since I forgot to set W5RRR-1 for unproto!!! ARGH. You Southerners are going to do far better than us... So the score so far as reported here:

| DAY    | TIME | ZONE | STATE | REPORT                             |
|--------|------|------|-------|------------------------------------|
| Thurs: |      |      |       | Launch, no activity                |
| Fri :  |      |      |       | voice comms general QSO's reported |
| SAT :  | 0835 | EDT  |       | packet heard                       |
|        | 1005 | EDT  | NC    | W4NMK sees OWN posit               |

If you report other sitings, please EDIT this list and send it back.

---

## 253. APRS vs. METSCAT Suggestions

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>  
Date: Sat, 15 Jul 1995 16:47:40 -0500 (CDT)

To: aprssig@tapr.org  
Message-ID: <950715164740.1dd5@dsml.dsmnet.com>  
Rendered body type: text/plain

TO : aprssig@tapr.org  
FROM : Ralph Wallio, W0RPK wallio@dsml.dsmnet.com  
SUBJECT: More APRS vs METSCAT  
DATE : 15 Jul 95

My first response to the possibility of using APRS techniques via meteor scatter outlined problems with the use of 2m, low power, AFSK on FM, 1200BPS and AX.25. This discussion is intended to be more positive by discussing methods that will improve chances of success.

#### QSY DOWN

Comments by Mark Oppenheim, KD6KQ, and Bob Bruninga, WB4APR, suggest an initial direction, QSY the effort to 6M. The 2M packet METSCAT QSO in August, 1984, between Rich Zwirko, K1HTV, and myself was sandwiched in time by far more extensive experiments on 6M. Bob Carpenter, W30TC, and I experimented with a 6M AFSK FM AX.25 METSCAT link for most of August, 1984. While Rich and I struggled to complete a minimal 2M AFSK FM AX.25 METSCAT QSO, Bob and I transferred multi-kilobyte files on 6M.

We knew our experiments on 6M were sub-optimal. Bob, W30TC, had direct professional experience with METSCAT networking, I had collected and studied a file drawer full of commercial and military documents. In that era, ingenious development of inexpensive and higher speed modems using more efficient modulation schemes, PSK and direct FSK, was under way but hardware was not yet available off-the-shelf. On the protocol side, AX.25, first widely implemented in the TAPR (Tucson Amateur Packet Radio - our host on this net) TNC-1, was the new game in town. (In that era, experiments with AX.25 networking were conducted from D.C. to daylight. Bob, WB4APR, I, and a few others were polluting the H.F. spectrum with 200Hz shift 300BPS AX.25 connections using surplus 103-type modem boards Bob had liberated.)

Given AX.25 and 1200BPS AFSK on FM, the only variables Bob Carpenter and I had to control were frequency, power, packet length and inertia. On the east end, Bob was an accomplished 6M enthusiast. On the west end, we had nothing, so the Central Iowa Technical Society went to work. Bob Evans, K0IQR, located a surplus 250W low-band VHF base station, obtained appropriate crystals and brought the beast back to life. Mike McQuiston, WA0WYW, combined a then recent QST 6M Yagi antenna construction article and the aluminum stock in his garage and managed to fly five elements in loose formation. The larger CITS group erected yet another tower, raised Mike's antenna, ran the feedlines, and kibitzed the assembly in to operation. As it happened, our preparations on the west end exactly coincided with Bob's schedule on the east end. We immediately went on the air and, before most CITS members limped home, packets were already flowing.

Hmmm, where were we? Oh yes, QSYing APRS METSCAT operations to a frequency lower than 2M is a reasonable first step. The question is, should experiments use 6M, 10M or both? When all factors are taken into consideration, 40MHz turns out to be the optimum frequency for METSCAT throughput and that is where commercial and military networks operate. One of these factors is symbol destruction due to multi-path distortion, a serious problem when solar activity brings the MUF up to 10M and higher. But we are approaching the bottom of the solar cycle and the chance of an F-layer opening on 10M, let alone 6M, is poor. (Chances for E-layer openings continue, regardless of the cycle, on both bands but, since we aren't designing for maximum throughput, most folks would probably be thrilled with packets received via any mode.)

In this era, use of either 10M or 6M would be reasonable so the band decision appears to resolve down to questions of logistics and interests. I suggest experimenters equipped with 10M rigs and antennas establish a 10M frequency and start a network. Similarly, experimenters equipped for and interested in 6M start there. On 10M, 1200BPS AFSK on FM is allowed above 29.0MHz for those with general class or higher privileges. The satellite sub-band starts at 29.3MHz followed by repeater pairs to the upper band edge. Pick a frequency between 29.0 and 29.3MHz, perhaps 29.280MHz, and begin operations. On 6M, the experimental segment 50.6 - 50.7MHz

could be used, perhaps 50.680MHz.

#### MINIMIZE AX.25 OVERHEAD

-----  
Power/gain, AFSK on FM and AX.25 overhead will still set limits but on 10M or 6M a few short APRS packets will be copied. The shortest possible UI AX.25 packet, just UI overhead with no data, is 20 8-bit bytes (octets):

|         |                                                       |
|---------|-------------------------------------------------------|
| FLAG    | (we transmit lots but only need to receive one octet) |
| ADDRESS | (112 bits or 14 octets)                               |
| CONTROL | (one octet)                                           |
| PID     | (one octet when running AX.25 version 2)              |
| FCS     | (two octets)                                          |
| FLAG    | (only one octet required)                             |

Note the lengthy but minimum address field to accommodate Amateur Radio call formats (with digipeating, the address field can extend to as much as 70-bytes). APRS operation uses UI frames in which the seven destination station bytes of the address field (only six bytes can be used) could be filled with other useful information by applying the UNproto command. Bob, WB4APR, suggests he could further implement code in APRS that would process six byte grid square designations found in displayed UI headers thereby creating APRS locating packets of absolute minimum length. Good thinking Bob!

#### CONSIDER USE OF HIGHER BIT RATES

-----  
Twenty byte APRS AX.25 packets will require meteor trail time constants of 134ms at 1200BPS, 34ms at 4800BPS, but only 17ms at 9600BPS. Inexpensive 9600BPS FSK demodulators and methods require about the same SNR as 1200BPS AFSK demodulators. Given the same SNR requirement, shorter time constants required for higher speeds would increase packet reception probabilities because the number of usable trails would increase significantly. I have lost track of the legalities of transmitting 4800 or 9600BPS FSK on 10M and 6M. Perhaps someone could fill us in.

Interfacing FSK modems to transmitters and receivers is not a plug-and-play exercise. Data modulators must drive FM transmitter modulators directly, bypassing transmit audio processing. Data demodulators must be fed audio directly from receiver FM demodulators bypassing receive audio processing. If the use of direct FSK at either 4800 or 9600BPS is legal on either 10m or 6M, the more arduous interfacing challenge could be worth the trouble.

Regards, Ralph Wallio, W0RPK  
Middle River Valley Radio Observatory  
1250 Highway G24  
Indianola, Iowa 50125

515-961-0383  
wallio@dsmnet.com  
W0RPK@W0AK.IA

---

## 254. Problem with 7bto71b.zip on TAPR.org

From: Gordon Fuller <gfuller@netcom.com>  
Date: Sat, 15 Jul 1995 15:14:32 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.3.89.9507151547.A4679-0100000@netcom9>  
Rendered body type: text/plain

Anyone else have a problem downloading 7bto71b.zip from tapr.org ? I downloaded it twice and both times got a hard disk error. 7bto71a works fine however. The error occurs when I try to work with the file. The file gives a disk error and cannot even be copied. Gordy WB6OVH in Fair Oaks, CA

gfuller@netcom.com

---

## 255. AEA PK-232MBX and APRS

From: fehner@cts.com (Barbara Fehner)  
Date: Sat, 15 Jul 95 18:31 PDT  
To: aprssig@tapr.org  
Message-ID: <m0sXIYG-0001q2C@kickme.cts.com>  
Rendered body type: text/plain

Bob, This is a follow up to my previous msg. about the space mode always showing that a packet had been digipeated even though it hadn't been. It

turns out that this happens in all APRS modes with the PK-232. The TNC ALWAYS echos unproto packets including the beacon whenever Monitor is set >0. I have spent several hours playing with the TNC and reading the manual and can find no way to turn this echo off. It looks like the only way to fix it is for the program to ignore any echo with an \* after MYCall. ie. kk6ib\*>relay>aprs. The digipeated packet will be : kk6ib>relay\*>aprs.

73's

Barbara KK6IB  
E-Mail: fehner@cts.com

---

## 256. Re: [APRSSIG:2274] Re: GARMIN 55AVD and APRS

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Sat, 15 Jul 1995 21:11:59 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507160212.VAA17620@solar.cs.tamu.edu>  
Rendered body type: text/plain

I'll make a point of testing it tomorrow or Monday.

I was up for a couple of passes today, and heard SAREX well. Well enough to get QSO #184 confirmed. Never ever did see any APRS activity, though.

73, gerry

--

Gerry Creager N5JXS                   \* SAREX Co-Investigator  
gerry@cs.tamu.edu                   \* A little radio that lets kids talk  
                                     \* to astronauts, and smile

\*\*\*\*\*

---

## 257. RE: [APRSSIG:2276] APRS-SAREX

From: Doug Smith <dougs@ccnet.com>  
Date: Sat, 15 Jul 95 19:44:30 PDT  
To: aprssig@tapr.org  
Message-ID: <Chameleon.950715194815.dougs@ccnet.ccnet>  
Rendered body type: text/plain

On Sat, 15 Jul 1995 15:21:32 -0500 Bob Bruninga wrote:

>guys... Did anyone see anything?

Since Thursday I have received ONE transmission on 145.55 after I finally got set up correctly and stopped transmitting there.

My (L)ist command showed my own transmission heard and one other:

UNIT                   RCVD       BEACON

0)d]'s-7               150652   d@xf#11.-R!yosr@ST50 PAREX JS0`ogber.

That's it. Not sure what it is. I think I was the lid your friend heard on .55. Live and learn.

-----  
ORIGIN: Doug Smith   dougs@ccnet.com  
Pleasant Hill, CA   http://www.ccnet.com/~dougs/  
WA6GON               Packet/APRS/RTTY/SWL  
Sysop       Douglas.Smith@f911.n161.z1.fidonet.org  
-----

---

## 258. Garmin altitude omission

From: lbutler@awod.com (Larry Butler)  
Date: Sat, 15 Jul 1995 23:31:18 -0400  
To: aprssig@tapr.org  
Message-ID: <199507160331.XAA09231@sumter.awod.com>  
Rendered body type: text/plain

Couldn't the reason for the Garmins not reporting altitude be the same mentality that makes the stupid thing lock up at 90 MPH? I think they're trying to keep us from carrying it aloft so they can sell us one of the nice \$1000+ aircraft units. My current GPS-50 is my last Garmin.

Anybody got any favorites to replace Garmin with? Cheap doesn't do you

any good if Cheap doesn't work!

73, Larry KN4IM

---

## 259. remoting Garmin GPS45 antenna

From: gphowell@soulcage.inmind.com (Geep Howell)  
Date: Sat, 15 Jul 95 23:38:08 EDT  
To: aprssig@tapr.org  
Message-ID: <199507160340.DAA02056@soulcage.inmind.com>  
Rendered body type: text/plain

K4LKQ showed me his remote arrangement today. He used (would you believe) 12 FEET of RG-174 and an old mag mount modified with a BNC female mounted at 90 degrees to allow the antenna to be vertical. He says it works perfectly. Claims to get better readings, even with the lossy 174, than sitting the RX on the dashboard. It would follow from what I saw today that 50 ohms is, in fact, the correct cable impedance, and that cable loss may be less of a factor than what I would have thought.

---

## 260. Re: [APRSSIG:2283] Garmin altitude omission

From: potomacg@telalink.net (Mike Jackson)  
Date: Sat, 15 Jul 1995 23:17:09 -0500  
To: aprssig@tapr.org  
Message-ID: <199507160422.XAA05653@eden.telalink.net>  
Rendered body type: text/plain

Personally, I like the Accunav Eagle (even though it's made by Lowrance-the depth finder people) <grin>  
I have taken it up in a 210 and it worked very well. No limits seen as of yet. It seems to notice course changes fast as well. Give it a try...  
Mike Jackson KD4KSQ

>Couldn't the reason for the Garmins not reporting altitude be the same  
>mentality that makes the stupid thing lock up at 90 MPH? I think they're  
>trying to keep us from carrying it aloft so they can sell us one of the  
>nice \$1000+ aircraft units. My current GPS-50 is my last Garmin.  
>  
>Anybody got any favorites to replace Garmin with? Cheap doesn't do you  
>any good if Cheap doesn't work!  
>  
>73, Larry KN4IM  
>  
>  
>

---

## 261. Re: [APRSSIG:2283] Garmin altitude omission

From: marchant@netcom.com (William Marchant)  
Date: Sun, 16 Jul 1995 04:25:51 -0700  
To: aprssig@tapr.org  
Message-ID: <199507161125.EAA05697@netcom2.netcom.com>  
Rendered body type: text/plain

There is nothing in the NMEA specs (that I could find) that reports altitude. I believe that is why Garmin uses a proprietary sentence to report altitude. Altitude doesn't really do you that much good in boats, IMHO. It would be nice for people SCUBA diving off of boars in mountain lakes (you have to adjust your dive times due to the different pressures) but that is such a small market that it seems the NMEA specifiers didn't think it worth while making altitude part of any official data sentence.  
Will

---

## 262. Re: [APRSSIG:2283] Garmin altitude omission

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Sun, 16 Jul 1995 08:05:51 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507161305.IAA22804@solar.cs.tamu.edu>  
Rendered body type: text/plain

Larry Butler sez:

>  
> Couldn't the reason for the Garmins not reporting altitude be the same  
> mentality that makes the stupid thing lock up at 90 MPH? I think they're  
> trying to keep us from carrying it aloft so they can sell us one of the  
> nice \$1000+ aircraft units. My current GPS-50 is my last Garmin.

Good thought... except the one Jeff and I have is the AVIATION version that works fine above 90kts.

> Anybody got any favorites to replace Garmin with? Cheap doesn't do you

> any good if Cheap doesn't work!

I'm still fond of the Motorola VP OnCore units. \$300 and easy to interface.

73, gerry

--

Gerry Creager N5JXS                   \* SAREX Co-Investigator  
gerry@cs.tamu.edu                   \* A little radio that lets kids talk  
                                     \* to astronauts, and smile  
\*\*\*\*\*

---

## 263. Re: [APRSSIG:2284] remoting Garmin GPS45 antenna

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Sun, 16 Jul 1995 08:09:05 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507161309.IAA22842@solar.cs.tamu.edu>  
Rendered body type: text/plain

Loss at L band for RG-174 is significant. Like 2+dB/meter. The saving grace is the amount of signal the system provides from each satellite at the earth's surface. Tie that to a little gain in the antenna (or a lot if you use one of the Trimble actives :-) and you can afford to make that sort of coax run.

Motorola and Trimble calculate loss at L band to be 1 dB/meter, by the way.

73, gerry

--

Gerry Creager N5JXS                   \* SAREX Co-Investigator  
gerry@cs.tamu.edu                   \* A little radio that lets kids talk  
                                     \* to astronauts, and smile  
\*\*\*\*\*

---

## 264. Re:APRS METSCAT Suggestions

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 16 Jul 1995 09:17:06 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950716080540.29475A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Ralph outlined an excellent 6m discussion. My message pointed out the availability of lots of 100W 6m radios for about \$40 which included shipping. By using a pile of all the same brand radios, only one person needs to find the schematic and figure out the 9600 baud access points, and then we can all leech the info and be on the air with minimum time. Is there a comitted volunteer out there that wants to do that?

Similarly, notice that those \$9 FSK boards in A.R. Trader need someone to buy one and tell us if it will make a good RCVR. Is it Sensitive? What data rate does it work at? Notice they are XTALed already on 50.675 RIGHT WHERE RALPH RECOMMENDS 6m MS! Since also he says MScat works best with the XMTR transmitting continuously at one end, these stand alone receivers would be a good investment...

EXPERTS, PLEASE ADDRESS THE FOLLOWING: The most common commercial MS networks are fixed point-to-point, with both ends pointing BEAMS at the same area of the sky. They operate FULL duplex so that at each end the transmitters are pumping out RF and packets 100% of the time. This leaves the throughput purely a function of the probability of meteors in the given sky region... There is great potential for setting up such "traffic forwarding" links point-to-point. Now how do we let everyone play?

1. Set up a few transmitters full time, max power and everyone counts received packets?
2. Drop to the 100W class, everyone transmits, and everyone listens, as long as someone is always transmitting (at any instant) then someone somewhere should hear a packet via every meteor event. Im thinking as I type here, so im beginning to realize, that in a standard ole' APRS aloha network, where each person only transmits rarely, his particular chance of being seen is very small, but since everyone is doing it, then the probability of SOMEONE's pacekt getting through on any given meteor event is the same as scenario 1 above! right??

So all we have to do is know how many people are transmitting (N) and then tell them all to transmit at a rate of 1/N so that there is RF in the air at all times from someone. Hummh. And since APRS is an application where just getting one packet randomly from anywhere is kinda fun...



NETWORK IDEA: I have a PK-9612 or whatever the name is for the kantronics DUAL port 1200/9600 baud TNC. Since APRS already works fine with the dual port KAM, the 9612 works the same way, so just as we currently have KAM HF gateways into APRS 1200 baud nets, MScat gateways would work the same way!

The difference would be that APRS MESSAGES would probably be useless due to the poor probabilities, but you should see some posits make it through.

Even using it for mobile posit reporting (boats at sea) or long haul RV'ers would not be practical because of the lack of antenna gain? Ralph, I assume that when you drop back to 100W AND you loose 10dB of antenna gain at BOTH ends, you just gave up 30 dB! So does that mean that the usual statistics of 100 baud throughput drop back to one packet maybe every hour for a CONTINUOUS transmitter? ARGH! at 300W input power thats 3 cents per packet in utility bills...

---

## 265. Re: [APRSSIG:2286] Re: Garmin altitude omission

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Sun, 16 Jul 1995 08:29:45 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507161329.IAA22956@solar.cs.tamu.edu>  
Rendered body type: text/plain

I thought the GGA Sentence included a Height (MSL) component. Time to go back and pull out the specs again! If not I have some erroneous software out there!

73, gerry

--

Gerry Creager N5JXS                               \* SAREX Co-Investigator  
gerry@cs.tamu.edu                               \* A little radio that lets kids talk  
                                                  \* to astronauts, and smile

\*\*\*\*\*

---

## 266. Re: [APRSSIG:2282] RE: APRS-SAREX

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 16 Jul 1995 09:38:28 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950716093705.29510C@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Sat, 15 Jul 1995, Doug Smith wrote:

> Since Thursday I have received ONE transmission on 145.55:  
>  
> 0)d]'s-7       150652   d@xf#11.-R!yosr@STS0 PAREX ]S0`ogber.

APR REPLY: And it looks like you had PASSALL ON, hi hi

---

## 267. APRS-SAREX score card

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 16 Jul 1995 10:00:01 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950716094741.29510D@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

In this log, there is column for the location (State) of the transmitting station(UP) and of the receiving station (DN)

DAY   TIME   ZONE   STATE   REPORT  
          UP   DN

-----  
Thur                   Launch, no activity  
Fri                   voice comms general QSO's reported  
SAT   0835 EDT       packet heard  
      1005 EDT   NC MD W4NMK seen  
SUN   0705 EDT       MD SAREX open VOICE QSO's  
      0720 EDT   MD MD MIR: G3ZCZ non-APRS UI gridsquare (FM19)  
      0838 EDT       SAREX packet! no APRS detected in MD

If you report other sightings, please EDIT this list and send it back.

---

## 268. Re: [APRSSIG:2282] RE: APRS-SAREX

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Sun, 16 Jul 1995 15:18:45 +0100 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950716151715.15518A-100000@pinegov>

Rendered body type: text/plain

On Sat, 15 Jul 1995, Doug Smith wrote:

```
>
> On Sat, 15 Jul 1995 15:21:32 -0500 Bob Bruninga wrote:
>
>
> >guys... Did anyone see anything?
>
> Since Thursday I have received ONE transmission on 145.55 after
> I finally got set up correctly and stopped transmitting there.
>
> My (L)ist command showed my own transmission heard and one
> other:
>
> UNIT          RCVD      BEACON
>
> 0)d]'s-7      150652  d@xf#11.-R!yosr@STS0 PAREX JS0`ogber.
>
>
> That's it. Not sure what it is. I think I was the lid your
> friend heard on .55. Live and learn.
>
>
> -----
> ORIGIN: Doug Smith  dougs@ccnet.com
> Pleasant Hill, CA   http://www.ccnet.com/~dougs/
> WA6GON              Packet/APRS/RTTY/SWL
> Sysop               Douglas.Smith@f911.n161.z1.fidonet.org
> -----
>
>
> Well, clearly, or perhaps not so clearly, someone received a 'STS-70
> SAREX QSO number;' however, who, and the number, arent quite as clear....
```

73 and happy SAREX hunting,

de Kevin Heyboer KD4UYR

---

## 269. Re: [APRSSIG:2292] APRS-SAREX score card

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Sun, 16 Jul 1995 13:43:31 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507161843.NAA25673@solar.cs.tamu.edu>  
Rendered body type: text/plain

Bob Bruninga sez:

```
>
> In this log, there is column for the location (State) of the
> transmitting station(UP) and of the receiving station (DN)
>
> DAY  TIME  ZONE  STATE  REPORT
>      UP  DN
> -----
> Thur                Launch, no activity
> Fri                voice comms general QSO's reported
> SAT   0835 EDT                packet heard
>      1005 EDT   NC MD W4NMK seen
> SUN   0705 EDT                MD SAREX open VOICE QSO's
>      0720 EDT   MD MD MIR: G3ZCZ non-APRS UI gridsquare (FM19)
>      0838 EDT                SAREX packet! no APRS detected in MD
>
> If you report other sightings, please EDIT this list and send it back.
```

I found no evidence of APRS activity on the 3 early morning passes in Texas.  
On the 1400utc pass (roughly) over here, voice was active.

73, gerry

---

## 270. questions again..

From: KD4EMI@aol.com  
Date: Sun, 16 Jul 1995 15:47:10 -0400  
To: aprssig@tapr.org  
Message-ID: <950716154709\_116057536@aol.com>  
Rendered body type: text/plain

Thanks for the responses guys.. here are a few thoughts..  
#1 Im still a bit fuzzy on the gateway stuff. I run a KPC3. My gate neighbor

runs a KAM. he wants to retransmit the local positions. His mygate is on gate, my unproto is on wide, gate. Still not getting any on the HF activity trickling down to VHF from him.

#2 I check the digi paths and notice something, NO callsigns..?  
Would it be possible to see who your getting the gateway'ed stuff from instead of just gate..? same on wide..  
All you see is gate or wide, with no clue as to who's doing it..

#3 I tried to edit MY home position. I hooked the object and when I tried to delete it or kill it, I got the digi screen or the kill screen. I can kill or delete other objects though.

#4 T.S. Chantel...  
Lets say my friend just boots up aprs. can I xmit to him what I have on the screen, (all of the storms and stations ?)  
I hit the x and then the objects, but see nothing going out.

#5 Are any of you going to Melbourne? Would like to get together with other APRS folks there if possible. Will operate GPS mobile...!  
(melbourne florida by the way)  
thanks Mike KD4EMI  
(KD4EMI@AOL.COM for private response)

---

## 271. Re: APRS METSCAT

From: David Josephson <david@josephson.com>  
Date: Sun, 16 Jul 1995 13:23:56 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <199507162023.AA00790@bolero.rahul.net>  
Rendered body type: text/plain

Hello APRSers,

A couple of data points on the meteor scatter idea.

100 watts is probably enough, with good antennas. \$40 is a fair price for those radios if they are late model 6m radios. There are tons of Micor 110 watt mobiles around California, pulled from Calif Highway Patrol cars, at prices from \$10 to \$200 depending on who's selling. They have dual receivers, one can be taken out and used for a stand-alone. I have an extra manual on these if someone is going to get a pile of them and do such a project -- which I would recommend. The receivers are also very good, very high sensitivity and equipped with the Motorola IF noise blanker. Crystal-controlled VHF radio design doesn't get better than this. If you're in the Palo Alto area, there are about six of them available in the \$30-40 price range at one of the disaster service organizations who got them from CHP and found them too big for their uses, contact me for info on who has them.

The other point is that ARPA (formerly DARPA, Defense Advanced Research Projects Agency) funded a major met scat project a few years ago that achieved a few tens of baud throughput from a 100 watt mobile nearly all the time, year around, and a few kilobaud throughput between 5-10 kw base stations also nearly all the time, over ranges of 100-2000 miles. One end of the link has to be the high power base, to send acks to the mobile with at least the probability of getting through as the mobile has. The advanced logic required for this was no doubt very expensive when it was done on a mil spec r&d project, but is probably doable with a fast PC now. They operate on a frequency near 40 MHz, so 6m isn't too far off. I think they are pretty sure that's the optimum frequency. I have met one of the project managers for this at ARPA while discussing another project, and it's entirely possible that we could get a full set of documentation on how it's done. I haven't pursued this because I simply don't have the time, but if there is a group of people that has the background, time and energy to put into this aspect of it like Bob has in the basic program, I'd be happy to set up the contact.

73  
David WA6NMF

--

David Josephson / Josephson Engineering / San Jose CA / david@josephson.com

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## 272. Re: [APRSSIG:2273] Re: Garmin 55AVD and APRS

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>  
Date: Sun, 16 Jul 1995 13:59:45 -0700 (PDT)  
To: aprssig@tapr.org

Message-ID: <9507161359.aa05165@comix.Santa-Cruz.Ca.US>

Rendered body type: text/plain

> GGA includes altitude. I suspect it was a lack of forethought or a conscious  
> decision rather than consideration of liability. After all, the Nav position  
> page has it.

Sounds like a good conspiracy theory. (I couldn't resist).  
The exact structure of the GGA sentence is:

GGA - Global Positioning System Fix Data

Time, position and fix related data for a GPS receiver.

\$--GGA,hhmmss.ss,llll.ll,a,...

```

|      |      |
|      |      | +-----\N/S North or South
|      |      | +-----/Latitude
+-----UTC of position
```

yyyy.yy,a,x,xx,x.x,x.x,M,...

```

|      | | | | | |
|      | | | | | +-----\Units of antenna altitude, meters
|      | | | | | +-----/Antenna altitude above/below mean-sea-level geoid
|      | | | | | +-----Horizontal dilution of precision
|      | | | +-----Number of satellites in use, 00-12,
|      | | | may be different from the number in view
|      | | +-----GPS quality indicator [1]
|      | +-----\E/W East or West
+-----/Longitude
```

x.x,M,x.x,xxxx\*hh<CR><LF>

```

| | | |
| | | +-----Differential reference station ID, 0000-1023
| | +-----Age of Differential GPS data [2]
| +-----\Units of geoidal separation, meters
+-----/Geoidal separation [3]
```

[1] GPS quality indicator: 0 = fix not available or invalid  
1 = GPS fix  
2 = Differential GPS fix

[2] Time in seconds since last SC104 Type 1 or 9 update.  
Null field when DGPS is not used.

[3] Geoidal Separation: the difference between the WGS-84 earth ellipsoid  
and mean-sea-level (geoid), "-" = mean-sea-level below ellipsoid.

--

# Jeff Liebermann Box 272 1540 Jackson Ave Ben Lomond CA 95005  
# 408.336.2558 voice wb6ssy@ki6eh.#nocal.ca.usa wb6ssy.ampr.org [44.4.18.10]  
# 408.699.0483 digital\_pager 73557,2074 cis [don't]  
# jeffl@comix.santa-cruz.ca.us scruz.ucsc.edu!comix!jeffl

## 273. APRS-SAREX next-pass-mode

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 16 Jul 1995 20:15:38 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950716200150.29991D-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Well, everyone knows the period of the shuttle is about 90 minutes, so that is what I put in the next pass algorithm for boosting APRS activity during the "next" pass. Stupid me. I forgot to add the time about 4 minutes or so that the earth rotates my position in the same time! So if you are using the UNATTENDED mode in APRS71B, it will work at the specified time for the "next" orbit, but it will only add 91 minutes for each additional pass instead of 95. With this 4 minute error, then you need to aim for the one pass you really want to hit for sure by accounting for this error.

We see 3 passes up here at 40 degrees latitude, so to hit the 2nd pass dead on, I should add 4 minutes to the time-to-next pass for the first one. This will make me come on toward the end of the first pass, hit the middle one as intended, and come on early for the last one.

With the "early" morning passes, this mode is the only way some of us will be able to have a chance at hitting the robot digipeater... I will have a new 71c posted Monday that will fix this accordingly for anyone

operating in the unattended mode....

Does anyone else have any bug reports for the SPACE mode??? Still, two days in a row, i get home and notice that my office APRS has the wrong unproto path for SAREX! DID I foregt to set it both Friday and Saturday when I left the office? Or is it resetting itself to WIDE,WIDE on its own???

---

## 274. Garmin 45 & External Antenna's

From: kc8ux@w8dc.ampr.org  
Date: Wed, 26 Jul 95 07:44:04 UTC  
To: aprssig@tapr.org  
Message-ID: <26902@w8dc.ampr.org>  
Rendered body type: text/plain

I thought i saw a post about someone remoting a Garmin 45 antenna using coax... My question to you APRS'ers is, has anyone found a resilient antenna, similar to the active antennas I've seen sold for use with the Garmin (or any BNC equipped unit). The little L-shaped antenna that comes with it is OK, but a dome type antenna with a mag mount would be great, especially at autobahn speeds...

Ron - KC8UX@W8DC.AMPR.ORG or KC8UX@MSN.COM

---

## 275. Re: [APRSSIG:2295] questions again..

From: dvelez@ix.netcom.com (Daniel Velez )  
Date: Sun, 16 Jul 1995 19:11:00 -0700  
To: aprssig@tapr.org  
Message-ID: <199507170211.TAA08155@ix2.ix.netcom.com>  
Rendered body type: text/plain

Mike, KD4EMI, writes:  
<SNIP>

>#2 I check the digi paths and notice something, NO callsigns..?  
>Would it be possible to see who your getting the gateway'ed stuff from  
>instead of just gate..? same on wide..

Unfortunately, no. But with a little investigating (watching S-Meter and incoming packets, swinging the beam, ...etc) you'll figure out what's coming from where.

<SNIP>  
>#4 T.S. Chantel...  
>Lets say my friend just boots up aprs. can I xmit to him what I have on the  
>screen, (all of the storms and stations ?)  
>I hit the x and then the objects, but see nothing going out.

Yes there is but it's intended for the DX cluster mode....and could wreak havoc on the APRS net. It's not documented but Bob might give you the details to experiment.

One option would be to copy your backup.bk file into the text of a message in the PBBS of your TNC. You and he could cut/paste in a few keystrokes. It's not convenient and would chew up some air time...but an idea.

The X-Objects feature transmits objects YOU are uplinking, that is, those things you've put on the map. If you're not uplinking anything, nothing goes out. In general, the X gets you to a menu asking which of \_your\_ station data to transmit: your posit, your beacon, your messages...etc.

73 de Dan

--

-----  
dvelez@ix.netcom.com or N4WZR@WD4MIZ.VA  
A0000GA! A0000GA! DIVE! DIVE! DIVE!  
-----

---

## 276. aprs web page?

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 16 Jul 1995 22:53:30 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950716225021.362A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Did I see someone a few weeks back say they were working on a web page about APRS? Or some mechanism where casual browsers could check in and see what APRS is about without having to burden the SIG with the

inevitable question.. What is it?

If you are, or know of a way to, then mail me direct. Thanks.

---

## 277. APRS DF hunt #3

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Mon, 17 Jul 1995 00:11:49 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950716231813.439A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Last weeks success with a smooth 12 mile drive to doppler find the fox only 8 miles line-of site from the start gave this neophyte a skewed view of DFing. This weeks event was a lesson in humility.

Working on the clothes dryer with 3 wash loads backed up, I was surprised to earn my wife's blessing to run off to a fox hunt I had only learned of a few hours earlier. Only 2 teams showed up at the start and both were APRS equipped. N6QAB has a white step van dedicated to DFing which would be the envy of the FCC! My bomb of a mazda and maze of duck tape is just plain an embarassment. But hey who has time to make it pretty. Here are the lessons learned:

- 1) why would a stand-alone tracker which has worked flawlessly for 3 years suddently output only 00000,00000's?
- 2) Why would the author of APRS try to lash up and debug a GPS/DF suite parked under a thick canopy of trees? A: 100 degree heat
- 3) How long does it take to re-init a GPS from scratch?! A: (20 mins +)
- 4) How can you leave the start point when you cant hear the FOX at ALL!
- 5) How many directions are the wrong direction to start a search? A: 3
- 6) Why would anyone use his HT as the Doppler radio without bringing along a DC power cable for it.
- 7) How long does a 3 hour laptop battery last? A: 1 hour
- 8) Why would your mobile rig not hear the fox direct when the doppler HT is hearing it fine? A: Maybe thats why the repeater is so lousy in my neighborhood....

I spent the first hour trying to find anywhere where I could hear the fox at all. Then the laptop died. When I finally began to get doppler readings the HT battery died. DFing on signal strength alone with the mobile rig was not my idea of fun considering the busted dryer and stack of laundry at home. Fortunately, N6QAB had already found the fox and dropped by my intersection to replay his track history. It looked beautiful until he got within 1 mile and then his GPS data stopped.

CONCLUSION: 1) The APRS DF bearings shown on Kevins map (and presumably observed by others on the air) certainly appeared to box in the fox. Although errors of 30 or 40 degrees were not unusual, the errors seemed to be off randomly either side of the fox location. But as the distnace to the fox narrowed, the area indicated by the crossing DF bearings also shrunk (with the fox in the middle). Too bad his GPS quit working for the final mile of close in work! This confirms that APRS can take manually entered RELATIVE bearings and apply them to the vehicle heading.

2) Kevin was a relative newcomer to APRS and in my trying to explain to him over the air the features and differences between the INPUT MY, INPUT-DF, INPUT-SAVE and INPUT-UPLINK commands, even I was getting confused. (Oh yes, turns out he was running 71 where the I-S and I-U didnt work anyway!

3) Since my MFJ TNC generates enough noise to wipe out 20 dB of noiee floor, my APRS map (while it workded) only showed kevin, myself and a local home station as a digi. I was surprised to finally see Kevins screen and P list which was full of the usual 80 other stations from Connecticut to Virginia and from Florida to Arizona (via the gate). No wonder he was confused! LESSON: Use another FREQ, or use IGNORE mode!

4) I will write a checklist!

5) His track history will be called DF-FOX3.HST in future distros

---

## 278. Re: [APRSSIG:2301] aprs web page?

From: rwf@mindspring.com (rwf)  
Date: Mon, 17 Jul 1995 00:14:15 -0400  
To: aprssig@tapr.org  
Message-ID: <199507170414.AAA13387@dylan.mindspring.com>  
Rendered body type: text/plain

>Did I see someone a few weeks back say they were working on a web page  
>about APRS?

I sent this to the SIG, because I felt it contained useful info.

Bob- My Web page ( <http://www.mindspring.com/~rwf> ) has got links to my archive of APRS files. The programs can be downloaded from it. I mentioned once about doing something else prettier about it, but then got sent out of town.

If you want to give me a "FAQ", or anything else you'd like to see up in lights, I'll be glad to HTML it and put it on the page. My pages are already pretty well known due to their ATV and Balloon focus, and is mentioned over on the GPS newsgroup in Usenet quite frequently. You can even see a picture of me there (do it on an old computer, so you won't cry when the monitor tube breaks).

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

[rwf@mindspring.com](http://www.mindspring.com)

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

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## 279. Re: [APRSSIG:2299] Garmin 45 & External Antenna's

From: [rwf@mindspring.com](mailto:rwf@mindspring.com) (rwf)

Date: Mon, 17 Jul 1995 00:23:32 -0400

To: [aprssig@tapr.org](mailto:aprssig@tapr.org)

Message-ID: <199507170423.AAA14819@dylan.mindspring.com>

Rendered body type: text/plain

>I thought i saw a post about someone remoting a Garmin 45 antenna using coax... My question to you APRS'ers is, has anyone found  
>d a resilient antenna, similar to the active antennas I've seen sold for use with the Garmin (or any BNC equipped unit). The little L-shaped antenna that comes with it is OK, but a dome type antenna with a mag mount would be great, especially at autobahn speeds...  
>  
>Ron - [KC8UX@W8DC.AMPR.ORG](mailto:KC8UX@W8DC.AMPR.ORG) or [KC8UX@MSN.COM](mailto:KC8UX@MSN.COM)  
>

I never had good luck remoting the antenna. I tried a piece of RG58 and then RG8x. 10 ft was too much loss. 8 ft was fair, but the loss seemed to outstrip the gain realized by putting the antenna outside.

For reliable 24 hr operation, I really feel you should use an external, active antenna. I do, on the tracker in my car (it is in the back window, actually) and it is always reliable.

And you probably don't need to worry about using the Garmin 45 at Autobahn speeds, since they cleverly engineered it to stop reading out above a speed of 90 kts or so. Nice marketing trick to force you to buy the aviation version for twice the price.

By the way, the L shaped one is called a Quadrifilar Helix (I think I spelled that correctly) and one of the ARRL antenna books tells how to make one. They are not simple. The one in the Garmin is on a flexible piece of circuit board and rolled into a cylinder. Don't drop it from a moving car at 30 mph. It will mess up the antenna :) Believe me- I know from experience!

I was overshipped on some Motorola active mag mount antennas, so I was selling them to some folks on the SIG a while back. They are all gone now, though.

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: [ftp.mindspring.com/users/rwf](ftp://ftp.mindspring.com/users/rwf) for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

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## 280. Re: [APRSSIG:1476] RE: MFJ DA

From: rwf@mindspring.com (rwf)

Date: Mon, 17 Jul 1995 00:49:30 -0400

To: aprssig@tapr.org

Message-ID: <199507170449.AAA18758@dylan.mindspring.com>

Rendered body type: text/plain

This will refresh your memory of this thread:

>On Sat, 20 May 1995 jeff.brenton@espi.com wrote:

>

>> Ralph Fowler commented, "It is strange to be forced to spend another  
>> 20% or so of the original cost of the radio to recrystal just so we can  
>> throw away the ones that we don't want (but were forced to buy)."

>>

>> I agree, but suspect MFJ would only lower the price about \$10 if they  
>> didn't include crystals... Partly because they STILL have to put  
>> crystals in it sometime to test it, so it would cost them to take them

>

>APR REPLY: Write or call MFJ. I encouraged them to start stocking  
>145.79 and they (the boss) agreed that they would, if the demand was high  
>enough. SO THEY WILL DO IT IF ENOUGH OF US ASK THEM TO! I assume that  
>once they get the production bugs out of the radio, they will settle down  
>and figure out that APRS trackers may be 50% of their sells of these  
>radios??? So BUY your 145.79 XTAL from them so that they SEE THE  
>DEMAND... OR SEND THEM A LETTER.  
> p.s You could try to sell your 145.01 xtals in SanFrancisco area (APRS  
>FREQ there) but since they all come with .01, nobody needs them there! hi hi  
>  
>

At the Atlanta Hamfestival, I met Mr Martin F Jue (the MFJ of MFJ) and his  
engineer, Mr Pan. I wanted to take Bob's suggestion of "bugging" them about  
the data radio.

As Gwyn said back in May, they truly do get a good break on the 5.01 xtals  
because of the quantity they buy. But Mr Pan asked me to ask you folks  
about this: What if the radio cost 10.00 more, but had 145.79 xtals in it.  
I think that makes it 129.95 or so. Would we buy it? Please send me your  
thoughts (Email to [rwf@mindspring.com](mailto:rwf@mindspring.com)). I will forward them on to the MFJ  
Company. This radio looks like it will be good for trackers.

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: [ftp.mindspring.com/users/rwf](ftp://ftp.mindspring.com/users/rwf) for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

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## 281. Re: [APRSSIG:2229] Re: Thanks for Suggestions

From: SDRoe@aol.com

Date: Mon, 17 Jul 1995 03:17:44 -0400

To: philkeys@olympus.net

Cc: aprssig@tapr.org

Message-ID: <950717031742\_34290874@aol.com>

Rendered body type: text/plain

Hey Phil,

Thanks for the message. Curious as to what firmware version you have in  
the Garmin 45 and what you think of its reception. WE bought 20 last October  
(Version 2.24) and they are nearly useless. I called Garmin and the Tech said



there should be no difference in the reception but he also told me to get the Serial Numbers to him and he would send me a Return Authorization so they could check them out. It doesn't seem like they would do this just to see if there was a problem since they are all still in warranty. I believe they know there is a problem and know how to fix it. At least I hope they do.

Got lots of good suggestions and following several leads. Just created a GPS committee in Pierce County, so I will have some help, and will be meeting at the Department of Emergency Management tomorrow.

We do intend to use our 45's & 75's but would like to have some compact ready to go units also. Want to get these as small and dummy proof as possible.

As for Line of Site, we have the same problem in the Cascades as you do in the Olympics. We have access to several mountaintop sites and also carry portable repeaters in the field with us. Also intend to have each individual units TNC digi info heard. Still working on the collision problem.

We are just starting and have a long ways to go. Would like to see something in the field this summer. Hope to meet you and work on our mutual problems.

73  
KB7QQQ  
Sam Roe - Chairman - Tactical Area Communications  
PO Box 73867  
Puyallup, Wa. 98373-0867

Home (206) 845-1832  
Page (206) 280-8128

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## 282. PK-12 Parameters for APRS

From: RonN9QGS@aol.com  
Date: Mon, 17 Jul 1995 07:41:35 -0400  
To: APRSSIG@tapr.org  
Message-ID: <950717074132\_116457976@aol.com>  
Rendered body type: text/plain

I am writting this in behalf of a friend, who is trying to run APRS, but no symbols are appearing on the screen, and its a PK-12 (AEA) v7, and we think its cause its putting UI in the data string. I had this problem with mine (KPC3, known as the MCOM command) anyone who can send me the parameters he should have set for his TNC I would appreciarte it  
Ron

---

## 283. Re: [APRSSIG:2299] Garmin 45 & External Antenna's

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Mon, 17 Jul 1995 08:10:43 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507171310.IAA04228@solar.cs.tamu.edu>  
Rendered body type: text/plain

kc8ux@w8dc.ampr.org sez:

>  
> I thought i saw a post about someone remoting a Garmin 45 antenna using coax... My question to you APRS'ers is, has anyone foun  
> d a resilient antenna, similar tothe active antennas I've seen sold for use with the Garmin (or any BNC equipped unit). The li  
> ttle L-shaped antenna that comes with it is OK, but a dome type antenna with a mag mount would be great, especially at autobahn  
> speeds...

M/A-Com makes 'em. As well as any number (OK, so it really is finite and somewhat limited) of advertisers in GPS world.

Later today, I'll get out the notebook and get the M/A-Com references for active and passive antennas. They do make 'em with mag mounts as well as other mechanisms of mounting.

73, gerry

--  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile  
\*\*\*\*\*

---

## 284. Re: [APRSSIG:2306] Re: Thanks for Suggestions

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Mon, 17 Jul 1995 08:27:35 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507171327.IAA04395@solar.cs.tamu.edu>  
Rendered body type: text/plain

SDRoe@aol.com sez:

>  
> portable repeaters in the field with us. Also intend to have each individual  
> units TNC digi info heard. Still working on the collision problem.

What I did on the Cows In Space boxes was to make the MYcall unique with each TNC and put the appropriate callsign in the BText, then make the thing beacon at intervals appropriate for the letter of the law. It got me around a worrisome problem.

73, gerry N5JXS  
gerry@cs.tamu.edu

---

## 285. APRS-SAREX score card

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Mon, 17 Jul 1995 09:33:46 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950717090536.2190A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

So far, only ONE APRS packet has been seen via SAREX. Although this may appear to be dismal, we have no idea how many SIG members are trying. In fact, a low number may be to our advantage in showing that APRS certainly cannot be considered to be a significant load on the SAREX robot.

At the close of this mission, I will need feedback from EVERY member of this SIG regarding your activity levels. I hope you are keeping a log of which passes you were ON but passive (normal beacons about every 10 mins), attended and ACTIVE, or were in AUTO-UNATTENDED mode. WAIT TO SUBMIT these reports until I REQUEST them and give an exact format.

In the meantime, report all UI frames detected, worldwide!

If you cannot attend your station, then ENLIST another APRS station who will be home during passes. He does NOT need to be a subscriber to this list. He will report his results to you, and you to us

| DAY | TIME | ZONE | STATES | REPORT |
|-----|------|------|--------|--------|
|     |      |      |        | SEEN   |

|                   |      |     |    |                                          |
|-------------------|------|-----|----|------------------------------------------|
| Thur              |      |     |    | Launch, no activity                      |
| Fri               |      |     |    | voice comms general QSO's reported       |
| SAT               | 0835 | EDT |    | SAREX packet heard in MD                 |
|                   | 1005 | EDT | NC | W4NMK seen in MD!                        |
| SUN               | 0705 | EDT |    | SAREX open VOICE QSO's heard in MD,NC    |
|                   | 0708 | EDT |    | MIR: packet BBS seen in NC               |
|                   | 0720 | EDT | MD | MIR: G3ZCZ non-APRS UI gridsquare (FM19) |
|                   | 0838 | EDT |    | SAREX packet! no APRS seen in MD NC      |
|                   | 1013 | EDT |    | SAREX open VOICE QSO's heard in NC,TX    |
| MON               | 0537 | EDT |    | SAREX packet! no APRS seen in MD         |
|                   | 0712 | EDT |    | SAREX packet! no APRS seen in MD         |
|                   | 0847 | EDT |    | nothing heard                            |
| ONLY 3 DAYS LEFT! |      |     |    |                                          |

If you report other sightings, please EDIT this list and send it back.

I will put out version 71c in the next few hours which fixes the 91 versus 95 minute predictions used in the un-attended mode...

---

## 286. M/A-Com

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Mon, 17 Jul 95 9:37:53 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.805988273.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

M/A-Com also makes the connectors used by some (several?) of the GPS vendors. However, I am having trouble trying to buy some of these. M/A-Com says talk to their dealers, the dealers don't know what I am talking about..

Anybody have any good contacts as to where to buy M/A-Com stuff?

Keith Sproul

Keith Sproul  
Student Housing Network Coordinator  
Rutgers University Computing Services  
<http://www-ns.rutgers.edu/~ksproul/>

Ham Radio: WU2Z  
[ksproul@noc.rutgers.edu](mailto:ksproul@noc.rutgers.edu)  
908 445-3695 Work  
908 821-4828 Home

---

### 287. Re: [APRSSIG:2305] RE: MFJ DA

From: Bob Bruninga <[bruninga@greatlakes.nadn.navy.mil](mailto:bruninga@greatlakes.nadn.navy.mil)>  
Date: Mon, 17 Jul 1995 09:50:39 -0400 (EDT)  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <[Pine.SUN.3.91.950717094431.2190D-100000@greatlakes.nadn.navy.mil](mailto:Pine.SUN.3.91.950717094431.2190D-100000@greatlakes.nadn.navy.mil)>  
Rendered body type: text/plain

In response to RWF's query about paying \$10 extra to get an MFJ 9600 baud capable radio already on 145.79, YES I AM HAPPY to pay only \$129 for 145.79 built in! In fact, I was gonna buy a few... but wanted to query the SIG one last time for user feedback. Haven't heard a peep from anyone since the initial grumbling about shipping delays.

My concern is temperature stability. Mine will go to WIDE-RELAY sites and they better be on freq in the dead winter and HOT summer!

If you are replying with your opinion on the \$10, please respond directly to Ralph, only reply here, if you have a MFJ 5 watt radio, and have feedback. TNX.

---

### 288. Re: PK-12 Parameters for APRS

From: Bob Bruninga <[bruninga@greatlakes.nadn.navy.mil](mailto:bruninga@greatlakes.nadn.navy.mil)>  
Date: Mon, 17 Jul 1995 10:00:14 -0400 (EDT)  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <[Pine.SUN.3.91.950717095611.2190E-100000@greatlakes.nadn.navy.mil](mailto:Pine.SUN.3.91.950717095611.2190E-100000@greatlakes.nadn.navy.mil)>  
Rendered body type: text/plain

In reply to the station that was seeing <UI> on every line fm his PK-12:

You should change BBSMSGs to ON in the APRS\SYSTEM\InitAEA.TNC file. Some of the early PK-12's didn't do monitor mode correctly unless they had BBSMSGs ON.

In fact, I remember now, that the UI display WAS the reason that you had to do this..

---

### 289. Re: [APRSSIG:2304] Re: Garmin 45 & External Antenna's

From: [W2H0B@aol.com](mailto:W2H0B@aol.com)  
Date: Mon, 17 Jul 1995 11:02:11 -0400  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <[950717110210\\_116553090@aol.com](mailto:950717110210_116553090@aol.com)>  
Rendered body type: text/plain

I am having excellent results by remoting the Garmin GPS-45 antenna using a Radio Shack window-clip mount BNC adapter. It has 6-feet of RG-58 with a BNC on the bitter end. Just attach it to the GPS-45, close the window on the adapter part (you do have air conditioning, don't you!?) and attach the GPS-45 antenna to the window clip's BNC connector. Sorry, but I don't have the model or part number case it's been long thrown away.

I also used a 90-degree angle adapter so the antenna would stand upright and even put a small plastic sandwich bag over the whole thing in case of rain. Works great. I know nothing can prevent signal degradation on tree-lined roads etc but I usually have 5-6 birds acquired and all 8 when out in the open. I'm sure there is considerable attenuation, but it doesn't seem to hamper my operations.

Just had to throw this in for info as I see so much discussion about it. Give it a try... it's only \$10 !!

Have fun de Boyd  
[W2H0B@aol.com](mailto:W2H0B@aol.com)

---

### 290. Group collisions and WIDE-RELAYS

From: Bob Bruninga <[bruninga@greatlakes.nadn.navy.mil](mailto:bruninga@greatlakes.nadn.navy.mil)>  
Date: Mon, 17 Jul 1995 11:10:17 -0400 (EDT)  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org)

Message-ID: <Pine.SUN.3.91.950717100602.2190F-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Mon, 17 Jul 1995, K7QQQ commented on his concern for collisions when all mobiles digipeat through each other:  
.... . Also intend to have each individual units TNC digi info heard. Still working on the collision problem. ...

The collision problem occurred to me this weekend as I was pondering the conversion of all of our WIDE digipeaters to WIDE-RELAYS... Now the purpose of mobiles running APRS VIA RELAY,WIDE is so that mobiles on the fringes can get injected into the network whenever they come near another APRS home site.

The problem is, what happens whenever a group of APRS mobiles all converge at a HAMFEST or other event! Everyone of them will digipeat each others packets! Unfortunatley, the only answer is operator TRAINING!

Here are some guidelines for controlling this problem:

1) High power (25-50 W) mobiles should routinely run APRS VIA WIDE,WIDE instead of the initial RELAY hop

1.5) Stand-alone trackers should probably not have the MYAlias of RELAY.

2) Converging mobiles should CHANGE to APRS VIA WIDE,WIDE or if they are low power and WANT to be seen at the event, then they MUST choose a high power mobile BY CALLSIGN to digipeat thru: APRS VIA N3XYZ,WIDE

3) Organized gatherings should designate ONE unit, FIXED or MOBILE to be the designated path. I suggest he set his MYAlias to CZAR. He will announce his status as CZAR in his BTEXT and POSIT so that others know of his existence... (I will modify APRS to display CZAR stations in RED)

4) Converging mobiles should change their MYAlias away from RELAY to something else. An instant way to do this is to hit CONTROLS-BANDS-HF. This change to HF will have no effect (unless you have a KAM) but it does change your ALIAS to ECHO!  
I will make a new COMMAND to do this MYAlias to ECHO conversion for converging mobiles...

IS THERE AN AUTOMATIC WAY TO CONTROL THIS PROBLEM?

1) Lets invent a new GENERIC digipeater address of CZAR.  
2) Anyone anticipating a convergence of mobiles sets up a LOW power DIGI with the alias of CZAR at the site of the event. (or, one mobile changes his alias to CZAR)  
3) APRS includes a function that whenever it HEARS a CZAR direct, AND is in a GPS mode (meaning its a mobile), then it will CHANGE its unproto path to APRS via CZAR, or maybe select some previously stored OPS-DIGI path of CZ.

HUMMH>>.... Although in some scenarios this would do the job, it could also prove to be a mess, because now you have just as much chance for operator error in NOT restoring their UNPROTOS on departure...

Also, since you cannot read signal strnegth, one lucky CZAR packet heard could shut down a mobile still quite far away. FOr now, then, Im not going to do anything, but if you have an idea, lemme know.

---

## 291. Re: [APRSSIG:2311] M/A-Com

From: rtm@newton.apple.com (Bob Martin)  
Date: Mon, 17 Jul 1995 08:32:18 -0700  
To: aprssig@tapr.org  
Message-ID: <v02120d01ac3032325b1a@[17.201.246.107]>  
Rendered body type: text/plain

>M/A-Com also makes the connectors used by some (several?) of the GPS vendors.  
>However, I am having trouble trying to buy some of these. M/A-Com says talk  
>to their dealers, the dealers don't know what I am talking about..

>

>Anybody have any good contacts as to where to buy M/A-Com stuff?

>

>Keith Sproul

>

>Keith Sproul

>Student Housing Network Coordinator

>Rutgers University Computing Services

><http://www-ns.rutgers.edu/~ksproul/>

Ham Radio: WU2Z

[ksproul@noc.rutgers.edu](mailto:ksproul@noc.rutgers.edu)

908 445-3695 Work

908 821-4828 Home

Out here on the Left Coast, Pennstock is a good place to deal with. They carry M/A-Com, Mini-Circuits, etc. They also handle small orders (which unfortunately for this stuff, still end up being quite expensive!) They're located in Sunnyvale.

73-

--  
Bob Martin N6MZV      \* rtm@newton.apple.com  
                         \* N6MZV @ N0ARY.#NOCAL.CA.USA.NOAM

---

## 292. Re: [APRSSIG:2275] Meteor Scatter proposal

From: mark@tetherless.com (Mark Oppenheim)  
Date: Mon, 17 Jul 1995 08:42:06 -0700  
To: aprssig@tapr.org  
Message-ID: <199507171542.IAA11319@gorgor.pa.tetherless.com>  
Rendered body type: text/plain

At 03:18 PM 7/15/95 -0500, Bob Bruninga wrote:

Buncha stuff omitted...

>P.S. I am not abandoning 6m tho. Todays A.R.Trader has an ad for hundreds of 50.675 FSK data receivers for \$9 each.

The price is right, but I'd be leary of the sensitivity/selectivity of such recievers (especially when on an outdoor antenna/beam). And since successful decoding of FSK/MSK is a bit dependent of your receiver being accurate (to keep signal passband centered on your IF filter), this may be a problematic radio, but for \$9.00, it may be worth getting one or two and doing some basic testing.

>The GE and MOTOROLA columns had  
>adds for quantities of Hwy Patrol 100 watt LOW-BAND (6m) FM radios for abt >\$40 each... If someone can figure out a NETWORK plan, I will be happy to >write a protocol for packing data into SHORT ax.25 UI frames!

Not a bad price, but remember, most Motorola radios use -not just bare xtals- but "Channel Elements" where the xtal is installed in. Just so no one is shocked by the price, if you have a channel element, the going rate for installation and temp comp. is about \$33.00 each from International Crystal (the only xtal house I use) in Oklahoma City. Still this brings the price for a 100W radio to only \$106.00

>P.P.S. Since we can run 1200 baud on 10 meters, how does that compare >with 6m, 2m?

Well, most of the hams in the USA are using AFSK on 10M. This still is affected by path noise, fading, etc. PSK (as used on the low-speed PACSATS) is MUCH better, gosh, I've used this overseas and been able to decode packets on SSB that barely move the S-meter out of the noise, and using TXD as low as 120ms, but being a phase-domain modulation, if there's phase shift on the signal, you're back to zero. Perhaps Ralph or one of the other MS experts can calculate what the phase-shift will be on a MS burst, but I suspect it may be horrendous! (or, perhaps not)

Overall, I think that this may be a three phase project:

Phase I:      Use "generic" APRS at 6M using 1200 baud AFSK \*  
                 With a few coordinated high power >300W ERP  
                 Stations  
  
                 (Proof of concept of ham-MS)

Phase II:      Transition to 4800 or 9600 Baud on 6M  
  
                 (Proof of concept of higher data-rates being better)

Phase III:     Move to a new generation of software; APRS or a  
                 MS-specific program, perhaps in conjunction with a  
                 STA that would permit 4800/9600 baud at 10M  
  
                 (Demonstrate usage in a "real" network environment,  
                 perfoming tasks, and not just as a "demonstration")

\* Personally, I'd rather not start by using AFSK, but rather, 4800/9600 baud. However starting at 1200 baud AFSK will enable the maximum amount of hams to start experimenting with this mode in the minimum amount of time. AFSK users should be required to install and use hardware DCD boards in their TNC, and to operate open squelch (or connect directly to the discriminator, this will also enable them to transition to FSK modes -at least for RX- easily).

Mark  
KD6KQ

---

|                                 |                               |
|---------------------------------|-------------------------------|
| Mark Oppenheim                  | Internet: MARK@TETHERLESS.COM |
| Tetherless Access Limited       | Voice: 415-843-6880 x18       |
| 2468 Embarcadero Way            | Fax: 415-843-6890             |
| Palo Alto, California 94303 USA |                               |

Visit our WWW site! <http://www.tetherless.net/>

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## 293. Garmin 50 wanted

From: "James, Edward A 5161 M" <EAJAMES@dpmail2.mssmtp.sandia.gov>  
Date: Tue, 18 Jul 95 11:31:00 PDT  
To: aprssig <aprssig@tapr.org>  
Message-ID: <300AAEBA@nmmshub.mssmtp.sandia.gov>  
Rendered body type: text/plain

I am looking for a Garmin 50, anybody know where I can get a new or used 50. I have looked at the 70 and don't like the display. The 50s display is a discrete LCD display the 70 uses a LCD array so that they can display graphics. reading the 70s display while driving is difficult.  
Ed James KA8JMW (505) 844-5537

## 294. Best Price GBR-21?

From: jgarrett@world.std.com (John Garrett)  
Date: Mon, 17 Jul 1995 14:24:00 -0400  
To: aprssig@tapr.org  
Message-ID: <0hg2mmPA42F0065yn@World.std.com>  
Rendered body type: text/plain

Does anybody know of any dealer giving decent prices for the Garmin GBR-21 DGPS receiver? Best price I can find is about \$480 from E&B.  
Thanks!  
John  
WN9T

## 295. Re: [APRSSIG:2308] Re: Garmin 45 & External Antenna's

From: rwf@mindspring.com (rwf)  
Date: Mon, 17 Jul 1995 14:26:05 -0400  
To: aprssig@tapr.org  
Message-ID: <199507171826.0AA22379@dylan.mindspring.com>  
Rendered body type: text/plain

Speaking of MA/COM GPS antennas- I had mine at the fest yesterday and it accidentally fell 2 ft to a concrete floor. The little white hockey puck type cover shattered on one side. I have dropped my Motorolas and never had any problem. If you have a MA/COM- don't drop it!

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA  
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info  
FTP: [ftp.mindspring.com/users/rwf](ftp://ftp.mindspring.com/users/rwf) for ATV, GPS, APRS info  
ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

## 296. Re: [APRSSIG:2283] Garmin altitude omission

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)  
Date: Mon, 17 Jul 1995 11:28:23 -0700  
To: aprssig@tapr.org  
Message-ID: <v01510101ac305b302835@[128.149.100.84]>  
Rendered body type: text/plain

>Couldn't the reason for the Garmins not reporting altitude be the same  
>mentality that makes the stupid thing lock up at 90 MPH? I think they're  
>trying to keep us from carrying it aloft so they can sell us one of the

>nice \$1000+ aircraft units. My current GPS-50 is my last Garmin.

Oh I don't know about that... I do know that I wouldn't want to be Garmin the first time some idiot flew into the side of a mountain trying to navigate with a GPS-45 (or other non-certified GPS receiver).

-Greg

--

|                                   |                                        |
|-----------------------------------|----------------------------------------|
| Gregory R. LaBorde - KD6MSM       | Internet: laborde@kilroy.jpl.nasa.gov  |
| Jet Propulsion Laboratory         | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org |
| Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA  |
| M/S 264-805 4800 Oak Grove Drive  | Phone : (818) 393-1107                 |
| Pasadena, CA 91109                |                                        |

---

## 297. Re: [APRSSIG:2295] questions again..

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Mon, 17 Jul 1995 20:56:19 +0100 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950717205107.21368A-100000@pinegov>  
Rendered body type: text/plain

On Sun, 16 Jul 1995 KD4EMI@aol.com wrote:

> Thanks for the responses guys.. here are a few thoughts..  
> #1 Im still a bit fuzzy on the gateway stuff. I run a KPC3. My gate neighbor  
> runs a KAM. he wants to retransmit the local positions. His mygate is on  
> gate, my unproto is on wide, gate. Still not getting any on the HF activity  
> trickling down to VHF from him.  
>  
> #2 I check the digi paths and notice something, NO callsigns..?  
> Would it be possible to see who your getting the gateway'ed stuff from  
> instead of just gate..? same on wide..  
> All you see is gate or wide, with no clue as to who's doing it..  
>  
> #3 I tried to edit MY home position. I hooked the object and when I tried to  
> delete it or kill it, I got the digi screen or the kill screen. I can kill or  
> delete  
> other objects though.  
>  
> #4 T.S. Chantel...  
> Lets say my friend justs boots up aprs. can I xmit to him what I have on the  
> screen, (all of the storms and stations ?)  
> I hit the x and then the objects, but see nothing going out.  
>  
> #5 Are any of you going to Melbourne? Would like to get together with  
> other APRS folks there if possible. Will operate GPS mobile...!  
> (melbourne florida by the way)  
> thanks Mike KD4EMI  
> (KD4EMI@AOL.COM for private response)  
>  
>  
>

Regards #1: I haven't a clue except to say you can only receive HF packets that are transmited GATE,WIDE if your friend's gate is set to mygate. I presume you don't have gate filtered out.

Regards #2: The digi list just stores what it sees sent. But, you can get a good idea of the current HF paths by checking the Heard list (H) or the Latest Beacons (L)

Regards #3: You can't kill yourself...its against the law in most states ..hi hi...reality check...you can only move your station or change its designator....you cannot remove yourself entirely except by rebooting the system in non-registered mode.

Regards #4: If you wish to uplink an object sent by another station, go to the positions screen (P), find the object, place cursor over object, and press <Enter> followed by <u> for uplink. However, please don't do this on HF as it will effect the entire country if you do.

Hope this helps.

Kevin Heyboer KD4UYR

.....remember, there are no basements or storm cellars in Florida.

---

## 298. Re: [APRSSIG:2321] Re: Garmin altitude omission

From: rwf@mindspring.com (rwf)  
Date: Mon, 17 Jul 1995 16:13:52 -0400  
To: aprssig@tapr.org  
Message-ID: <199507172013.QAA23465@dylan.mindspring.com>  
Rendered body type: text/plain

>>Couldn't the reason for the Garmins not reporting altitude be the same  
>>mentality that makes the stupid thing lock up at 90 MPH? I think they're  
>>trying to keep us from carrying it aloft so they can sell us one of the  
>>nice \$1000+ aircraft units. My current GPS-50 is my last Garmin.  
>  
>Oh I don't know about that... I do know that I wouldn't want to be Garmin  
>the first time some idiot flew into the side of a mountain trying to  
>navigate with a GPS-45 (or other non-certified GPS receiver).  
>  
>-Greg  
>  
>--  
>Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov  
>Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org  
>Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA  
>M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107  
>Pasadena, CA 91109 |  
>

Or II-Morrow when someone crashes while trying to do an ILS approach with a non-TSO'd (approved) Loran. Or Pep Boys Auto parts the first time someone crashed a plane that was found to have a Ford replacement voltage regulator rather than the functionally equivalent "official" TSO'd regulator.

Why would Garmin be liable for someone using a Marine GPS to navigate an airplane. They have no control over that.

IMHO Garmin did it solely as a marketing maneuver.

Ralph.

---

## 299. Re: [APRSSIG:2317] Re: Meteor Scatter proposal

From: David Josephson <david@josephson.com>  
Date: Mon, 17 Jul 1995 13:29:28 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <199507172029.AA20490@bolero.rahul.net>  
Rendered body type: text/plain

> >\$40 each... If someone can figure out a NETWORK plan, I will be happy to  
> >write a protocol for packing data into SHORT ax.25 UI frames!  
>  
> Not a bad price, but remember, most Motorola radios use -not just bare  
> xtals- but "Channel Elements" where the xtal is installed in. Just so no  
> one is shocked by the price, if you have a channel element, the going rate  
> for installation and temp comp. is about \$33.00 each from International

Yes, these will all be channel element radios, but (especially if people are doing a bunch of them as a coop project) it needn't be so expensive. You can buy just the crystal, from International, Marden or others, for about \$12, and solder it in to the element yourself. Worst case will be a variation of about +/- 4ppm over the range -10 to +50 C.

> Phase I:            Use "generic" APRS at 6M using 1200 baud AFSK \*  
>                      With a few coordinated high power >300W ERP  
>                      Stations  
>  
>                      (Proof of concept of ham-MS)

My guess is that there would be too few contacts at this power/modulation efficiency ratio to prove anything.

> \* Personally, I'd rather not start by using AFSK, but rather, 4800/9600 baud.  
> However starting at 1200 baud AFSK will enable the maximum amount of hams to  
> start  
> experimenting with this mode in the minimum amount of time. AFSK users should  
> be required to install and use hardware DCD boards in their TNC, and to operate  
> open squelch (or connect directly to the discriminator, this will also enable  
> them to transition to FSK modes -at least for RX- easily).

You can probably start just with direct FSK, something really simple minded like connecting the data line drivers to a varactor on the crystal osc.

73 David WA6NMF



--

David Josephson / Josephson Engineering / San Jose CA / david@josephson.com

---

### 300. RE: [APRSSIG:2305] RE: MFJ DA

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>  
Date: Mon, 17 Jul 95 12:33:00 cdt  
To: aprssig <aprssig@tapr.org>  
Message-ID: <300AAC88@mailgtwy.nellis.af.mil>  
Rendered body type: text/plain

Hmmm Seems like a good deal... and an even better one  
(for probably 4x cost ??) would be an integrated TNC and  
GPS rcvr... (w/ xternal antenna).... now that would be a good  
deal !!!!

just a comment...

sadowskp@usafcrqs.nellis.af.mil  
Al AH6LS

>I think that makes it 129.95 or so. Would we buy it? Please send me your  
>thoughts (Email to [rwf@mindspring.com](mailto:rwf@mindspring.com)). I will forward them on to the MFJ  
>Company. This radio looks like it will be good for trackers.

> Ralph Fowler, N4NEQ S.E.R.A. ATV Technical Advisor

---

### 301. Re: [APRSSIG:2280] AEA PK-232MBX and APRS

From: fehner@cts.com (Barbara Fehner)  
Date: Mon, 17 Jul 95 14:10 PDT  
To: aprssig@tapr.org  
Message-ID: <m0sXxQt-00011RC@kickme.cts.com>  
Rendered body type: text/plain

>>Bob, This is a follow up to my previous msg. about the space mode always  
>>showing that a packet had been digipeated even though it hadn't been. It  
>>turns out that this happens in all APRS modes with the PK-232.  
>>  
>>Barbara KK6IB  
>>E-Mail: fehner@cts.com  
>>  
>I use a PK232MBX also and never had something like that, nor I remember  
>having specifically changed some parameters to make it run with aprs.  
>  
>Have you tried with a terminal program, just to see if the tnc really echoes  
>something.  
>If you can describe a bit more your problem I can have a look this evening  
>at home with my PK232.  
>  
>Bernard, KB2TGH.

I found the problem thanks to Bernard's note. Cockpit error! It turned out  
that there  
is an obscure command in an update to the TNC's ROM that is called: MXmit .  
I had  
this set to on and it echoes all transmitted packets as if they were  
received off the air.  
There is no problem with the APRS software.

I wonder how many more new commands I've missed? <grin>

Thanks to all,

Barbara KK6IB  
E-Mail: fehner@cts.com

---

### 302. APRS-SAREX notes

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Mon, 17 Jul 1995 17:23:34 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950717172010.7765E-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

I just posted (ftp) APRS71c.zip. It is ONLY the EXE file and THE ONLY  
CHANGE is that it correctly adds about 95 minutes to each successive  
shuttle pass time rather than the 91 I was using before.

Only bother to get this file if you will be running un-attended  
APRS-SAREX over the next 3 days. Actually the passes are so early in the  
morning now, that you can usually get the first 2 before leaving for work.

C0me on guys, only 1 APRS packet digipeated by SAREX so far!

### 303. Re: [APRSSIG:2324] Re: Meteor Scatter proposal

From: mark@tetherless.com (Mark Oppenheim)  
Date: Mon, 17 Jul 1995 14:08:44 -0700  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <199507172108.0AA16649@gorgor.pa.tetherless.com>  
Rendered body type: text/plain

At 03:52 PM 7/17/95 -0500, David Josephson wrote:  
>> >\$40 each... If someone can figure out a NETWORK plan, I will be happy to  
>> >write a protocol for packing data into SHORT ax.25 UI frames!  
>>  
>> Not a bad price, but remember, most Motorola radios use -not just bare  
>> xtals- but "Channel Elements" where the xtal is installed in. Just so no  
>> one is shocked by the price, if you have a channel element, the going rate  
>> for installation and temp comp. is about \$33.00 each from International  
>  
>Yes, these will all be channel element radios, but (especially if people are  
>doing a bunch of them as a coop project) it needn't be so expensive. You can  
>buy just the crystal, from International, Marden or others, for about \$12,  
>and solder it in to the element yourself. Worst case will be a variation of  
>about +/- 4ppm over the range -10 to +50 C.

No, this isn't exactly true in all cases.

The components in the element are compensated for the crystal inside, and  
are matched to track that crystal as the temperature and voltage fluctuates.  
If you have components that track in one direction, and a crystal that  
tracks in an opposite direction (or at a different rate) then you're more  
than a KHz off-channel, even at 50 MHz.

The cost of a compensated crystal in the element far outweighs the trauma  
that you'll put yourself through if the xtal does not track correctly - much  
more important at 9600 baud FSK than, say, in an 1200 AFSK environment. As  
you start going off frequency (in TX or RX) the signal in someone's receiver  
starts being affected by the group delay in the IF passband filter (at  
filter edges) and your BER goes through the roof.

At first (15+ years ago) \*I\* "cheaped out" too, and thought that this would  
be acceptable. It was not - and all xtals finally made it back to ICM with  
their respective elements. That's why I use International - they do good  
work, they're not much more money than the competition, don't lie about  
delivery dates, their stuff works every time, and it's guaranteed for life -  
no questions asked.

Mark

|                                 |                               |
|---------------------------------|-------------------------------|
| Mark Oppenheim                  | Internet: MARK@TETHERLESS.COM |
| Tetherless Access Limited       | Voice: 415-843-6880 x18       |
| 2468 Embarcadero Way            | Fax: 415-843-6890             |
| Palo Alto, California 94303 USA |                               |

Visit our WWW site! <http://www.tetherless.net/>

### 304. Re: □APRSSIG:2041! ILMAPS01.ZIP

From: "BCROCKET" <HARRIS.BCROCKET@IC1D.HARRIS.COM>  
Date: 17 Jul 1995 07:56:07 EST  
To: aprssig@tapr.org  
Message-ID: <QCY3.BCROCKET.882421180095198FQCY3@IC1D.HARRIS.COM>  
Rendered body type: text/plain

Does your work happen to include a map for the Quincy area?

Bob

```
=====
Bob Crockett           | Phone: 217-221-7717
Broadcast Division     | Fax: 217-222-8725
Harris Corporation     |
P.O. Box 4290          | Amateur Call: N9KUT
Quincy, Illinois 62305-4290 | Internet: bcrocket@harris.com
=====
```

Reply Separator  
Subject: DAPRSSIG:2041! ILMAPS01.ZIP  
Author: HARRIS.APRSSIG at Harris  
Date: 7/2/95 7:31 PM

I have collected (and made a few) about 24 different maps of Illinois and surrounding areas, written up a maplist.il for those maps, and uploaded them all in a file call ILMAPS01.ZIP to both my BBS and ARN BBS.

If someone would be kind enough to upload them to TAPR.ORG for others to gain access via internet, it would be appreciated.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249  
Packet address: KB8JX0@W8CQK.#CMH.OH.USA  
Cruise Missile Address: 39 56.35 N 082 58.89 W  
The 137th most knowledgable person about A.P.R.S.

### 305. APRS-SAREX and unattended set-up

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Mon, 17 Jul 1995 19:43:48 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950717193153.8189C-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

When I went to fix the overnight timer in the SPACE MODE, I found that it was NOT broke in the firstplace. When you say the next pass is enough hours away to go past midnight, the timer is active and ready to go, only the SPACE MODE display was confused and not showing the time-to-go. As soon as midnight rolls around, the negative number will "come out of the hole" and everything will work fine..

This will keep you from having to stay up till midnight to set the timer for the 5 AM pass tomorrow morning. This will work in both 71b and 71c. If you have 71b whos only bug is that it only adds 91 minutes instead of 95 minutes for the 2nd pass, simply set the timer in the evening for the first pass, and then in the morning, reset the timer again yourself for the next 7 AM pass.

### 306. Re: [APRSSIG:2299] Garmin 45 & External Antenna's

From: rkramer@vaxxine.com (Ronald Kramer)  
Date: Mon, 17 Jul 1995 20:19:25 -0400  
To: aprssig@tapr.org  
Message-ID: <9507180019.AA24252@alpha.vaxxine.com>  
Rendered body type: text/plain

Well let's see..

Garmin 45 on dash of Safari 4 or 5 sat's very directional  
Garmin 45 on console below dash with Radio shack suction cup 6 ft extsion antenna in front window defogger to hold upright, suction cups will not stick to dash, 5 or 6 sat's still very directional, mount antenna on front glass window half way up, only way to mount vertical is to face top of antenna down, does not hardly work at all upsidedown.  
Use original Raytheon 900 gps active antenna 30 ft rg 58 couple of connectors antenna on top of rear roof, 7 to 8 satelites most of the time, full scale on signals most of the time, this antenna is about 10 inches high and has to be removed or layed over to enter the garage.  
Purchase Garmin GA28 active antnna, about 30 ft of rg58 white, very good quality coax well shielded good stranded centre conductor.  
The antenna proformed well although it is directive, you can rotate it and the signals go up and down and change sat. very much.  
Why do all these companies insist on using straight thread... can not find die to make mount, force a NPT die in split housing a bit but can fix once mounted with silicon. Mount a pipe nipple to magmount and antenna to that about 6 inches total height will go in to 7 ft garage door without getting out to take off or fold over.  
Thinking about turning up antenna one day forgot to wait for garage door to be fully up scaped back 6 inches of rear hatch and glass and twisted garage door, 7 week old 1995 Safari 2 month old garage door.....  
Garmin 28 on top of rear van works good.  
Noticed that when the APRS 144.390 45 watt keyed up that the sat. signals would lower slightly and recover ok.  
Have two dual band antenna's glass mounted on either side of rear side window's one is for the GPS 2 meter IC 28h and the other if for the IC3200a Voice radio. GPS antenna is center of roof at rear most point just in front of top stop light. VHF antenna's are about 3 ft futher

forward than the GPS on either side.  
Well now all seemed to work good for about 6 days then the signals started disappearing from the Garmin 28... Guess I blew it... don't work at all now.  
Have on work bench, took plastic cover off, pried the glue apart. What a job to unsolder the coax from the .01" thick groundplane pc board so that I could check it out.  
The physical layout is a fiber pc board .01" thick with very stiff groundplane on top and surface mount components on bottom.  
Groundplane measures 2.6 inches front to back and 1.87 inches across.  
On top of the ground plane is the antenna, it is a square box about .235" high and 1.4" square. The top looks like an X from corner's to corner the X is insulator, .050" wide, so that you have 4 antenna's connected at the corner's. Centered on the sides you have a wire going straight down to the circuit board below .08 in from the edge, this is the feed point for each of the four antenna's.  
On the bottom (surface mount side) the opposit sides are connected together with matched length's of copper foil, side to side and back to front. These pairs are then cross tied together with foil tuned lines, going to a Filter and transistor. Have not fully taced out circuit yet but will sometime later on. Looks like a voltage regulator, two transistor's besides the RF transistor and a 8 pin and a 6 pin surface mount ic., about half a dozen surface mount caps.  
That's all I have to report at this time, BTW the Raystar 900 antenna is back on the van and have not damaged it with RF in 6 months of usage.

Regards, Ron ... 73 de Ron  
Internet: rkramer@vaxxine.com (Ron Kramer)  
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

---

### 307. RE: AEA PK-232MBX and APRS

From: Bill <bill@halcyon.com>  
Date: Mon, 17 Jul 95 18:50:26 PDT  
To: aprssig@tapr.org, fehner@cts.com  
Message-ID: <Chameleon.950717185331.bill@bill.halcyon.com>  
Rendered body type: text/plain

Hi Barbara,

I was able to get my PK-232MBX to work in the space mode by setting the following two peramaters:

MXMIT off  
BBSMSG on

Hope that helps you.

Bill

Sent 07/17/95 18:50:26 Reply to bill@halcyon.com

---

### 308. APRS 71C FILE SECURITY?

From: lbutler@awod.com (Larry Butler)  
Date: Mon, 17 Jul 1995 22:31:37 -0400  
To: aprssig@tapr.org  
Message-ID: <199507180231.WAA04231@sumter.awod.com>  
Rendered body type: text/plain

Well, Bob? What does version 7.1C do? How's come its got some BBS file security checker on it?? Is this a real or bogus copy?  
Larry KN4IM - confuzed.

---

### 309. Re: [APRSSIG:2311] M/A-Com

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Mon, 17 Jul 1995 21:41:38 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507180241.VAA13726@solar.cs.tamu.edu>  
Rendered body type: text/plain

Keith Sproul sez:

>  
>

> M/A-Com also makes the connectors used by some (several?) of the GPS vendors.  
> However, I am having trouble trying to buy some of these. M/A-Com says talk  
> to their dealers, the dealers don't know what I am talking about..  
>

> Anybody have any good contacts as to where to buy M/A-Com stuff?

Penstock. As soon as I can dig up the book I'll try to remember to post it.

However, 1-800-directory can give you the number for Penstock.

73, gerry

```
--
Gerry Creager  N5JXS          * SAREX Co-Investigator
gerry@cs.tamu.edu            * A little radio that lets kids talk
                             * to astronauts, and smile
*****
```

---

### 310. Re: [APRSSIG:2315] Group collisions and WIDE-RELAYS

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Mon, 17 Jul 1995 21:58:38 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507180258.VAA13935@solar.cs.tamu.edu>  
Rendered body type: text/plain

I think it ought to be 'tsar'... if we want to be true to the cyrillic transalliteration:-)

gerry

```
--
Gerry Creager  N5JXS          * SAREX Co-Investigator
gerry@cs.tamu.edu            * A little radio that lets kids talk
                             * to astronauts, and smile
*****
```

---

### 311. Re: [APRSSIG:2320] Re: Garmin 45 & External Antenna's

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Mon, 17 Jul 1995 22:24:45 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507180324.WAA14450@solar.cs.tamu.edu>  
Rendered body type: text/plain

rwf sez:

```
>
> Speaking of MA/COM GPS antennas- I had mine at the fest yesterday and it
> accidentally fell 2 ft to a concrete floor. The little white hockey puck
> type cover shattered on one side. I have dropped my Motorolas and never
> had any problem. If you have a MA/COM- don't drop it!
```

Interesting! i've exposed mine to cows (minor test) and graduate students (draw your own conclusions) with no obvious damage.

I've beaten the fool out of the quadrifilar helix from Garmin, without damaging it, too.

73, gerry

```
--
Gerry Creager  N5JXS          * SAREX Co-Investigator
gerry@cs.tamu.edu            * A little radio that lets kids talk
                             * to astronauts, and smile
*****
```

---

### 312. Re: [APRSSIG:2321] Re: Garmin altitude omission

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>  
Date: Mon, 17 Jul 1995 19:39:13 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <9507171939.aa13586@comix.Santa-Cruz.Ca.US>  
Rendered body type: text/plain

```
> Oh I don't know about that... I do know that I wouldn't want to be Garmin
> the first time some idiot flew into the side of a mountain trying to
> navigate with a GPS-45 (or other non-certified GPS receiver).
> Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov
```

You don't have to fly to be dangerous. When I first bought a Garmin GPS-45, I was fascinated by the moving track display. I strapped it to the top of my steering column and drove with the display in front of the speedometer. Why look at the road when you can watch the map? I got the clue when I finally drove off the road and into a ditch. No damage except for a ruined wheel alignment.

```
--
# Jeff Liebermann  Box 272      1540 Jackson Ave    Ben Lomond    CA    95005
# 408.336.2558 voice  wb6ssy@ki6eh.#nocal.ca.usa  wb6ssy.ampr.org [44.4.18.10]
# 408.699.0483 digital_pager  73557,2074  cis [don't]
```

---

### 313. Re: [APRSSIG:2323] Re: Garmin altitude omission

From: Howard Goldstein <hg@penny.n2wx.ampr.org>  
Date: Mon, 17 Jul 1995 21:33:08 -0400 (EDT)  
To: aprssig@dingus.n5lyt.datarace.com  
Message-ID: <Pine.LNX.3.91.950717212626.398A-100000@n2wx.ampr.org>  
Rendered body type: text/plain

On Mon, 17 Jul 1995, rwf wrote:

> Or II-Morrow when someone crashes while trying to do an ILS approach with a  
> non-TSO'd (approved) Loran. Or Pep Boys Auto parts the first time someone  
> crashed a plane that was found to have a Ford replacement voltage regulator  
> rather than the functionally equivalent "official" TSO'd regulator.  
>  
> Why would Garmin be liable for someone using a Marine GPS to navigate an  
> airplane. They have no control over that.  
>  
> IMHO Garmin did it solely as a marketing maneuver.  
>

Well I started the thread speculating on why no altitude data in the 55  
AVD NMEA output and the only thing I can think of is perhaps they didn't  
want you to feed its useless (for navigation) altitude indication to an  
airplane autopilot.

A precision approach sans a glide slop must be a hell of a trick even with  
a TSO'd GPS or LORAN but I digress as I drift way off topic for an APRS  
mailing list :-)

Here's an on-topic one for you space guys: Can (have?) accurate fixes  
be/been taken by a GPS aboard the space shuttle?

Howie

--  
Howard Goldstein  
N2WX

hg@n2wx.ampr.org  
<http://www.tapr.org/~n2wx/>

---

### 314. Re: [APRSSIG:2328] Re: Meteor Scatter proposal

From: David Josephson <david@josephson.com>  
Date: Tue, 18 Jul 1995 00:05:21 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <199507180705.AA27485@foxtrot.rahul.net>  
Rendered body type: text/plain

> The components in the element are compensated for the crystal inside, and  
> are matched to track that crystal as the temperature and voltage fluctuates.  
> If you have components that track in one direction, and a crystal that  
> tracks in an opposite direction (or at a different rate) then you're more

I used to think so ... then looked at some of the information that GE  
used to provide on this topic. They claim that all crystals drift with  
temperature in the same direction, just with different slopes. That has  
also been my experience, for what it's worth.

> The cost of a compensated crystal in the element far outweighs the trauma  
> that you'll put yourself through if the xtal does not track correctly - much  
> more important at 9600 baud FSK than, say, in an 1200 AFSK environment. As

That may well be true, and I can't argue with International as the vendor  
of choice.

---

### 315. [APRSSIG:2310] APRS-SAREX score card

From: Appleton <S=Appleton%S=Appleton%G=K%I=P%TEXACO@mcimail.com>  
Date: Tue, 18 Jul 95 02:46 EST  
To: APRSSIG <aprssig@tapr.org>  
Message-ID: <33950718074633/0004365529D41X4@MCIMAIL.COM>  
Rendered body type: text/plain

To: 95157013--P0

\*\*\* Reply to note of 07/17/95 09:48  
From: K.P. Appleton CPI Rumbai, Indonesia  
Phone -- CTN 8-46-42142 (Work); 8-46-43088 (Home)  
TEXNET 8-45-42142 (Work); 8-45-43088 (Home)  
Subject: [APRSSIG:2310] APRS-SAREX score card



with 2-5 minute windows twice a day that's not to surprising.  
Good Luck to all and maybe next time it'll go better.

---

### 318. Re: [APRSSIG:2342] Re: APRS-SAREX notes

From: DEANG@mail.syntron.com  
Date: Tue, 18 Jul 95 07:58:38 CST  
To: aprssig@tapr.org  
Message-ID: <9506188060.AA806079518@MAIL.SYNTRON.COM>  
Rendered body type: text/plain

>C0me on guys, only 1 APRS packet digipeated by SAREX so far!

I'm working on it ...

At least I not the only person having trouble hitting the shuttle!

---

### 319. Re: [APRSSIG:2338] Re: Garmin altitude omission

From: kirk@seawifs.gsfc.nasa.gov (Robert Kirk)  
Date: Tue, 18 Jul 1995 09:18:38 -0400  
To: aprssig@tapr.org  
Message-ID: <199507181318.JAA02464@seawifs.gsfc.nasa.gov>  
Rendered body type: text/plain

>On Mon, 17 Jul 1995, rwf wrote:

[...]

>Here's an on-topic one for you space guys: Can (have?) accurate fixes  
>be/been taken by a GPS aboard the space shuttle?

>

>Howie

>

>--

>Howard Goldstein

> N2WX

hg@n2wx.ampr.org

<http://www.tapr.org/~n2wx/>

Don't know if GPS is used for shuttle, but I'm working on an ocean monitoring satellite that will navigate solely by GPS. There have been a couple of spacecraft recently which carry GPS for auxiliary navigation as an experiment, but I believe mine will be the first to use it as the only on board nav system. We carry two Motorola units and have done a lot of simulation and modeling using data from one flying now in an experimental mode, and expect no problems. We were thinking of using the Garmin 45 but had trouble keeping the spacecraft under the speed limit :-). Our only back up is to use the Air Force's NORAD skin tracking. Hope the Cold War keeps them in business.

Bob Kirk  
N30ZB

---

### 320. Re: [APRSSIG:2338] Re: Garmin altitude omission

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Tue, 18 Jul 1995 08:23:10 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507181323.IAA19475@solar.cs.tamu.edu>  
Rendered body type: text/plain

Yes. Penny Sanders at JSC (Maybe I should get \*HER\* on this list?) has been working with that for about 4 years and had good results. Tom Clark can speak to this, or any of the AMSAT folks working on P3D's onboard GPS system, but I believe you have to take the raw pseudorange data and resolve the altitude ambiguity external to the GPS.

gerry

--

Gerry Creager N5JXS

gerry@cs.tamu.edu

\* SAREX Co-Investigator

\* A little radio that lets kids talk

\* to astronauts, and smile

\*\*\*\*\*

---

### 321. subscribe

From: "McCutchen, Dave" <dmccutch@esd.dl.nec.com>  
Date: Tue, 18 Jul 95 8:33:12 -0400  
To: aprssig@tapr.org  
Message-ID: <929B0B30011C0000@smtp.esd.dl.nec.com>  
Rendered body type: text/plain



### 323. Re: [APRSSIG:2344] Re: Garmin altitude omission

### 324. APRS-SAREX score card (Tues)

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Tue, 18 Jul 1995 12:01:48 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950718113231.2903C-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

In the few days of SAREX remaining we need to take advantage of every opportunity when SAREX packet mode is on. If you cannot attend your station, then ENLIST another APRS station who will be home during passes. He does NOT need to be a subscriber to this list. He can report his results to you, and you to us. If you are new to SPACE, review the notes on Doppler shift at the bottom of this message.

| DAY  | TIME | ZONE | STATES | REPORT                                   |
|------|------|------|--------|------------------------------------------|
|      |      |      | SEEN   |                                          |
| Thur |      |      |        | Launch, no activity                      |
| Fri  |      |      |        | voice comms general QSO's reported       |
| SAT  | 0835 | EDT  |        | SAREX packet heard in MD                 |
|      | 1005 | EDT  | NC     | W4NMK seen in MD!                        |
| SUN  | 0705 | EDT  |        | SAREX open VOICE QSO's heard in MD,NC    |
|      | 0708 | EDT  |        | MIR: packet BBS seen in NC               |
|      | 0720 | EDT  | MD     | MIR: G3ZCZ non-APRS UI gridsquare (FM19) |
|      | 0838 | EDT  |        | SAREX packet! no APRS seen in MD NC      |
|      | 1013 | EDT  |        | SAREX open VOICE QSO's heard in NC,TX    |
| MON  | 0537 | EDT  |        | SAREX packet! no APRS seen in MD         |
|      | 0712 | EDT  |        | SAREX packet! no APRS seen in MD         |
|      | 0847 | EDT  |        | nothing heard                            |
| TUES | 0540 | EDT  |        | no packet detected                       |
|      | 0715 | EDT  |        | voice comms gneral QSO's                 |
|      | 0852 | EDT  |        | no packet detected                       |

If you observed something different or saw ANY UI frame, please EDIT this list and send it back.

Version 71c fixes the 91 versus 95 minute predictions used in the un-attended mode...

Since some APRS users may be new to SPACE, the following paragraph details the way to work with the doppler shift which can be as high 3 KHz. This shift is enough to wreck a packet:

|               |                          |                       |
|---------------|--------------------------|-----------------------|
| APPROACHING   | TUNE RECEIVER 2 KHz high | Tune XMTR 2 KHz LOW!  |
| CLOSEST POINT | TUNE RECEIVER on freq    | Tune XMTR on freq     |
| DEPARTING     | TUNE RECEIVER 2 KHz low  | Tune XMTR 2 KHz HIGH! |

For overhead passes, the transition is nearly instantaneous  
For horizon passes it is almost a continuous straight line.

IF YOU CANNOT TRANSMIT SPLIT MODE, then operate ONLY ON frequency.  
Since the doppler is opposite on transmit and receive, If you shift for receive, then you are making the XMT impossible!

Good luck...

---

## 325. Quincy Illinois Map

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Tue, 18 Jul 1995 12:04:56 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950718120309.2903D@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Someone asked for a map of Quincy Illinois, but I cant find his message.

I extracted a 32 mile map for the area, but it needs about another hours worth of work. If that person is still here, then I will continue...

---

## 326. Re: [APRSSIG:2327] APRS-SAREX notes

From: calldrin@sierra.net (Chuck Alldrin)  
Date: Tue, 18 Jul 1995 09:12:33 -0700  
To: aprssig@tapr.org  
Message-ID: <199507181612.AA06306@diamond.sierra.net>  
Rendered body type: text/plain

7-18-95

Bob.  
I just heard voice contacts at 14:20 UTC.

Chuck Alldrin      calldrin@sierra.net

**327. Re: [APRSSIG:2348] Re: Garmin altitude omission**

**328. Re: [APRSSIG:2349] APRS-SAREX score card (Tues)**

Page 739

TUES 0540 EDT no packet detected  
 0715 EDT voice comms gneral QSO's  
 0852 EDT no packet detected  
 1422 UTC N.CA voice comms QSO's in Chico, CA  
 1553 UTC N.CA SAREX packet! no APRS seen, no replys in Chico, CA  
 1557 UTC N.CA voice comms QSO's

>In the few days of SAREX remaining we need to take advantage of every  
 >opportunity when SAREX packet mode is on. If you cannot attend your  
 >station, then ENLIST another APRS station who will be home during  
 >passes. He does NOT need to be a subscriber to this list. He can  
 >report his results to you, and you to us. If you are new to SPACE,  
 >review the notes on Doppler shift at the bottom of this message.  
 >

### 329. Re: [APRSSIG:2349] APRS-SAREX score card (Tues)

From: Gerald J Creager <gerry@cs.tamu.edu>  
 Date: Tue, 18 Jul 1995 14:31:14 -0500 (CDT)  
 To: aprssig@tapr.org  
 Message-ID: <199507181931.OAA24375@solar.cs.tamu.edu>  
 Rendered body type: text/plain

Bob Bruninga sez:

>  
 > In the few days of SAREX remaining we need to take advantage of every  
 > opportunity when SAREX packet mode is on. If you cannot attend your

Remember that the UPLINK is 144.49 and the DOWNLINK is 145.55. Transmitting  
 on 145.55 will not yield any packets.

WASNOM at JSC tells me he has observed NO APRS activity in Houston. Gil's the  
 one who programs up the TNC for each mission. He reconfirmed this morning  
 that EITHER W5RRR or W5RRR-1 will work (callsign is W5RRR-1, alias is W5RRR)  
 for unproto digipeating.

> Since some APRS users may be new to SPACE, the following paragraph  
 > details the way to work with the doppler shift which can be as high  
 > 3 KHz. This shift is enough to wreck a packet:

>  
 > APPROACHING TUNE RECEIVER 2 KHz high Tune XMTR 2 KHz LOW!  
 > CLOSEST POINT TUNE RECEIVER on freq Tune XMTR on freq  
 > DEPARTING TUNE RECEIVER 2 KHz low Tune XMTR 2 KHz HIGH!

>  
 > For overhead passes, the transition is nearly instaataneous  
 > For horizon passes it is almost a continuous straight line.

NO!

For overheard passes the doppler is most pronounced. For low elevation  
 passes, the amount of perceived doppler may be small enough to not be a  
 problem.

For all passes here, I've copied packets (but no APRS packets) on all SAREX  
 passes where packet has been active. I have not shifted off-channel. My max  
 elevation has been 51 degrees. It's been more a challenge to follow the bird  
 with the yagis than to worry about doppler shift.

One possible concern here is in the APRS Stations uplinks. I wonder how many  
 folks have checked their deviation on their transmitters when operating with  
 packet? A lot of terrestrial users dial their deviation up too hot. This  
 will result in a packet that's so wide that the UPLINKED packet may be lost to  
 SAREX. We set the transmitter audio on Packet on SAREX to 2.5 kHz for  
 specifically that reason. Some of the purists (Bob, and WASNOM :-)) will  
 persist in trying to tweak in the off-channel stuff. I've seen  
 horizon-to-horizon coverage every packet pass this mission with center-tuning.

73, Gerry

--

Gerry Creager N5JXS \* SAREX Co-Investigator  
 gerry@cs.tamu.edu \* A little radio that lets kids talk  
 \* to astronauts, and smile

\*\*\*\*\*

### 330. Re: [APRSSIG:2343] Re: APRS-SAREX notes

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
 Date: Tue, 18 Jul 1995 23:08:41 +0100 (EDT)

To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950718230734.26779A-100000@pinegov>  
Rendered body type: text/plain

On Tue, 18 Jul 1995 DEANG@mail.syntron.com wrote:

>  
> >C0me on guys, only 1 APRS packet digipeated by SAREX so far!  
>  
>  
> I'm working on it ...  
>  
> At least I not the only person having trouble hitting the shuttle!  
>  
Based on local traffic, during the passes over SE US, they have been on voice, not packet....might explain the problem. The robot only runs when they aren't talking.

Kevin KD4UYR

---

### 331. Re: [APRSSIG:2338] Extra Terrestrial GPS

From: jgarrett@world.std.com (John Garrett)  
Date: Tue, 18 Jul 1995 14:22:22 -0400  
To: aprssig@tapr.org  
Message-ID: <U1\$2mmPA4YFN065yn@World.std.com>  
Rendered body type: text/plain

"  
" A precision approach sans a glide slop must be a hell of a trick even with  
" a TS0d GPS or LORAN but I digress as I drift way off topic for an APRS  
" mailing list :-)  
"  
" Here's an on-topic one for you space guys: Can (have?) accurate fixes  
" be/been taken by a GPS aboard the space shuttle?

The AMSAT Phase IIID will have GPS on board.

John  
WN9T

"  
" Howie  
"  
" --  
" Howard Goldstein  
" N2WX  
"  
" hg@n2wx.ampr.org  
" http://www.tapr.org/~n2wx/

---

### 332. MCC wants your SAREX APRS data

From: marchant@netcom.com (William Marchant)  
Date: Tue, 18 Jul 1995 14:56:56 -0700  
To: aprssig@tapr.org  
Message-ID: <199507182156.0AA16786@netcom18.netcom.com>  
Rendered body type: text/plain

PLEASE help Bob fill in his matrix of APRS activity for SAREX on STS-70.  
We are very curious down here in Mission Control about the success of the APRS digipeating. And negative information in the form of "I know that APRS packets didn't happen at this time" is a very important contribution to Bob's data collection. There are still about 36 hours left before SAREX gets stowed...  
Will KC6ROL

---

### 333. MFJ DATA RADIOS

From: jeff.brenton@espi.com  
Date: Tue, 18 Jul 95 20:46:54 -0500  
To: aprssig@tapr.org  
Message-ID: <9507182046.0T70H00@espi.com>  
Rendered body type: text/plain

Ron Fowler asked (essentially), "Would we buy the MFJ if it came crystalized for APRS for \$10 more for it?"

My answer to that question is, "Well, I already have TWO ordered pre-crystalized from the factory for 145.79, plus another for 145.03, and I'm paying \$25 extra for the privilege, plus I've been waiting for TWO MONTHS so far!"

---  
□ KWQ/2 1.2i NR □

---

### 334. HOW TO WORK APRS-SAREX

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Tue, 18 Jul 1995 18:27:05 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950718181338.7039B-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

In my haste to get on with APRS-SAREX, I may have not given a good enough explanation of how to set up for it. Read SPACE.txt

- 1) Set ur 2m FM radio to receive 145.55 and to transmit on 144.49
- 2) Use OPS-UNPROTO to set VIA W5RRR-1
- 3) Put APRS into alt-S-MODES-SPACE so that it puts your grid swuare into your beacon and posits. If you are running 71b or 71c tell APRS how many minutes to the next pass, and it will reset your BCN and POS timers to begin transmitting your POSIT and BCN at that time. THis command toggles on/off, but a yellow box will show that you are in SPACE mode...

4) If you are at your computer during a pass, no matter what the timers are doing, you can forrce packets with the X-P or X-B commands.

Now, if you are runnning 71b, then the time-to-next pass will only work correctly for the next orbit because it adds 91 minutes to subsequent passes. That number should have been 95 miunutes (and is fixed in 71c) That is the only difference in 71c.

---

### 335. Re: [APRSSIG:2217] UFO's On Packet

From: Jess Girard <girard@panix.com>  
Date: Wed, 19 Jul 1995 12:03:03 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950719115225.25184A-100000@panix.com>  
Rendered body type: text/plain

Hi Bob:

The problem with trying to use existing VHF packet techniques for MS and other difficult modes such as Aurora is that we're using fm. Between the waste of power and phase distortion it's a wonder that packet works at all. I suspect if we were to switch to ssb we'd be amazed at the range improvement and also how many more stations we could fit per MHz of band space. Remember if you use ssb all the output power is funnelled into the mark and space frequencies only. No other audio frequencies (well, rf, if you wanna be picky) go out into the antenna.

Also, yes, we'd also be amazed at the price of all those ssb rigs, and yes, we'd be amazed at the new varieties of cockpit error we could all make and observe.

I can't remember my information theory well enough at this instant; would the "baud" rate have to drop if we used ssb? I'm drawing a blank. If it looks useful I'd be willing to invest in a multimode rig.

Jess Girard ND1L

girard@panix.com  
anonymous ftp ftp.netcom.com (/pub/gi/girard/jess)

---

### 336. EAA Convention Oshkosh '95

From: edwardwr@InterAccess.com (Edward W Rogers)  
Date: Tue, 18 Jul 1995 23:19:18 -0500  
To: aprssig@tapr.org  
Message-ID: <199507191300.IAA00544@psycfrnd.interaccess.com>  
Rendered body type: text/plain

Anyone on the sig planning on going?  
Ill be there camping on the field with N9RER and our sheepdogs.  
Digi will be up on 145.790 (unless a local can give us a hint as to what if any freq is used in area) and Ill be on and off the local 2m site.  
Ill also be showing off APRS to the USGC Aux folks on Lake Winnebago so if your there jump in ;-)

Ed  
N9LCI

---

### 337. Re: [APRSSIG:2349] APRS-SAREX score card (Tues)

From: edwardwr@InterAccess.com (Edward W Rogers)  
Date: Tue, 18 Jul 1995 23:19:16 -0500  
To: aprssig@tapr.org  
Message-ID: <199507191300.IAA00541@psycfrnd.interaccess.com>  
Rendered body type: text/plain

>  
>In the few days of SAREX remaining we need to take advantage of every  
>opportunity when SAREX packet mode is on. If you cannot attend your  
>station, then ENLIST another APRS station who will be home during  
>passes. He does NOT need to be a subscriber to this list. He can  
>report his results to you, and you to us. If you are new to SPACE,  
>review the notes on Doppler shift at the bottom of this message.

Deleted stuff

| DAY  | TIME | ZONE | STATES | REPORT                                                                |
|------|------|------|--------|-----------------------------------------------------------------------|
|      |      |      |        | SEEN                                                                  |
| ---- | ---- | ---- | -----  | -----                                                                 |
| 16   | 0737 | CDT  |        | following text "W5RRR-1 and KC5OZX"                                   |
| 16   | 1602 | CDT  |        | R0MIR-1 BBS command line                                              |
| 18   | 0730 | CDT  |        | station appeared to digi via W5RRR-1 but no<br>readable data observed |

Bob, will anyone be able to do a "mheard" command on W5RRR-1 to see if any of the packets made it? It doesnt appear to have made any readable data in the Chicago area.

73

Ed

---

### 338. APRS 6m frequency!

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Wed, 19 Jul 1995 11:46:47 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950719111634.10554A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

With the recent excitement about 6 meter Meteor scatter potential for APRS mobile position reporting, we need to get a dedicated METEOR SCATTER freq. But we need to ALSO find a nationwide APRS tracking freq. They CANNOT be the same, since MSCAT needs to be TRANSMITTING most of the time! SO that I dont get accused of just stealing a freq, please check the band plan in your area and send the info PRIVATE back to me. I will edit and re-post this table...

| FREQ  | WASHDC                                   |
|-------|------------------------------------------|
| ----- | -----                                    |
| 50.62 | Packet                                   |
| 50.64 | avail                                    |
| 50.66 | avail                                    |
| 50.68 | avail                                    |
| 50.70 | RTTY                                     |
| 50.72 | avail                                    |
| 50.74 | avail                                    |
| 50.76 | avail                                    |
| 50.78 | TCPIP                                    |
| 50.80 | BAND EDGE for Radio Control applications |

Our area initially began operations on 50.61 and coordinated through 50.79 so that we got 10 channels. But then the ARRL band plan came out as above with 5 KHz wasted at both band edges, and we decided to accept it.

I have added these freqs to my scanner, and suspect that ALL of these channels are NOT really used. Our 6m backbone died... Maybe some of the old timer RTTY'ers did too...

### 339. APRS-SAREX score card (Wed)

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Wed, 19 Jul 1995 09:38:36 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950719091434.9276C-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

#### WEDNESDAY

Only one day to go, and they sure are making a lot of voice contacts!  
We need every aprssig station on 145.55 with transmit on 144.49  
for the remainder of the mission FRIDAY MORNING. If you cannot attend your  
station, then ENLIST any other APRS station who will be home during  
passes. He can report his results to you, and you to us.

| DAY | TIME | ZONE | STATES | REPORT |
|-----|------|------|--------|--------|
|     |      |      | SEEN   |        |

|      |      |     |    |                                          |
|------|------|-----|----|------------------------------------------|
| Thur |      |     |    | Launch, no activity                      |
| Fri  |      |     |    | voice comms general QSO's reported       |
| SAT  | 0835 | EDT |    | SAREX packet heard in MD                 |
|      | 1005 | EDT | NC | *APRS posit from W4NMMK seen in MD!      |
| SUN  | 0705 | EDT |    | Open VOICE QSO's heard in MD,NC          |
|      | 0708 | EDT |    | MIR: packet BBS seen in NC               |
|      | 0720 | EDT | MD | MIR: G3ZCZ non-APRS UI gridsquare (FM19) |
|      | 0838 | EDT |    | SAREX packet! no APRS seen in MD NC      |
|      | 1013 | EDT |    | Open VOICE QSO's heard in NC,TX          |
| MON  | 0537 | EDT |    | SAREX packet! no APRS seen in MD         |
|      | 0712 | EDT |    | SAREX packet! no APRS seen in MD         |
|      | 0847 | EDT |    | nothing heard                            |
| TUES | 0540 | EDT |    | no packet detected                       |
|      | 0715 | EDT |    | Open voicec QSO's                        |
|      | 0852 | EDT |    | no packet detected                       |
|      | 1022 | EDT |    | Open voice QSO's heard in N.CA           |
|      | 1157 | EDT |    | Open voice QSO's heard in N.CA           |
| WED  | 0416 | EDT |    | no packet detected                       |
|      | 0550 | EDT |    | no packet detected                       |
|      | 0726 | EDT |    | Open voice QSO's                         |

If you observed something different or saw ANY UI frame, please EDIT  
this list and send it back. If you were up, and heard voice QSO's  
on those orbits where I indicate no packet detected, please let me  
know. (I was asleep!) But we need that data!

Version 71c fixes the 91 versus 95 minute predictions used in the  
un-attended mode...

Since some APRS users may be new to SPACE, here is how to adjust for  
doppler. (which is enough to wreck a packet near the horizon)

|               |                          |                       |
|---------------|--------------------------|-----------------------|
| APPROACHING   | TUNE RECEIVER 2 KHz high | Tune XMTR 2 KHz LOW!  |
| CLOSEST POINT | TUNE RECEIVER on freq    | Tune XMTR on freq     |
| DEPARTING     | TUNE RECEIVER 2 KHz low  | Tune XMTR 2 KHz HIGH! |

For DIRECT overhead passes, the transition is nearly instantaneous which  
means you will almost always have to account for it. For horizon passes  
it is almost a continuous straight line, so you will have a reasonable  
window in the middle when the shift can be ignored.

IF YOU CANNOT TRANSMIT SPLIT MODE, then operate ONLY ON frequency, or  
ADJUST for the correct TRANSMIT freq. All the rest of use will tell you  
if you got in! Since the doppler is opposite on transmit and receive, If  
you shift for best receive, then you are making the XMT impossible!

Good luck...

### 340. Re: [APRSSIG:2339] Re: Meteor Scatter proposal

From: BenW5SR@aol.com  
Date: Tue, 18 Jul 1995 18:46:16 -0400  
To: aprssig@tapr.org  
Message-ID: <950718184615\_35548151@aol.com>  
Rendered body type: text/plain

If anyone is serious abt meteor scatter work lets set up a sched, freq, and  
mode for the upcoming persiuds in August. I may run a portable station during  
the shower from DM85 and will be mainly looking for ssb scheds on 2 and 6m  
ssb. I should be mobile APRS by then and will be happy to try anything any  
one has ideas on. If I run from the home qth I'll be running 200 watts into  
18 elements on a 29 ft boom on 2m an 50 watts into 7 el on a 30 ft boom on  
6m. Also willing to try some long haul tropo scheds. We may just want to pick



a freq on 6m and 2m for long haul aprs MS, tropo, and E-skip work. Any scheds are welcome for 6 and 2.

---

### 341. Re: [APRSSIG:2355] Re: APRS-SAREX notes

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 19 Jul 1995 15:12:42 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507192012.PAA10248@solar.cs.tamu.edu>  
Rendered body type: text/plain

Kevin Heyboer sez:

>  
> Based on local traffic, during the passes over SE US, they have been on  
> voice, not packet....might explain the problem. The robot only runs when  
> they aren't talking.

Except that I've been monitoring even the early morning passes, when Don's not likely to be on voice... or when packet's woke me up... and still not seen any.

Further, WA5NOM at JSC has not monitored any over the Houston passes.

Now... in our defense, the Packet ROBOT traffic has been pretty intense. Still this is the the first time we've turned UI digi on for this kind of operation.

Bob, the good news for us is that it doesn't appear to have an adverse effect, so my recommendation will be to retain this functionality. It'd be a lot easier to justify if we could get some more activity, tho'.

73, gerry

--

Gerry Creager N5JXS                               \* SAREX Co-Investigator  
gerry@cs.tamu.edu                               \* A little radio that lets kids talk  
                                                  \* to astronauts, and smile

\*\*\*\*\*

---

### 342. STS-70 elements (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 19 Jul 1995 12:06:45 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507191706.MAA07646@solar.cs.tamu.edu>  
Rendered body type: text/plain

Carman, Gilbert L. sez:

> Subject: STS-70 elements  
> Date: Wed, 19 Jul 95 10:59:00 cdt  
> Message-Id: <300D2CC5@msmtp-out.jsc.nasa.gov>  
> Encoding: 17 TEXT  
> X-Mailer: Microsoft Mail V3.0

>

>

>

> Note: On orbit 97 (July 19 at 14:03 UTC) the actual STS-70 trajectory  
> was 3 seconds later than predictions based on element set JSC-009,  
> so no updates are required today.

>

>

> Gil Carman

>

--

Gerry Creager N5JXS                               \* SAREX Co-Investigator  
gerry@cs.tamu.edu                               \* A little radio that lets kids talk  
                                                  \* to astronauts, and smile

\*\*\*\*\*

---

### 343. Re: [APRSSIG:2352] Re: Garmin altitude omission

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Tue, 18 Jul 1995 16:24:15 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507182124.QAA26635@solar.cs.tamu.edu>  
Rendered body type: text/plain

Robert Kirk sez:

>  
> Oh, ye of little faith. Beacon tracking is mediaeval. They cost money, weight,  
> power, & ground tracking. Besides, USAF is free...Bob

With the closing of the Big Blue Cube at Onizuka AFS, I was wondering if the

USAFSpaceDef might start charging... \$1.50 per set of calculated Keps, \$5.00 if they're expected to get them right, or select the right object? Subscriptions payable in advance, of course, and they'll send you a set of Keps every time they update them for the next year, if they remember?

73, gerry

---

### 344. STS-70 element set JSC-009 (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Tue, 18 Jul 1995 16:26:52 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507182126.QAA26707@solar.cs.tamu.edu>  
Rendered body type: text/plain

> Subject: STS-70 element set JSC-009  
> Date: Tue, 18 Jul 95 09:12:00 cdt  
> Message-Id: <300BC233@msmtp-out.jsc.nasa.gov>  
> Encoding: 23 TEXT  
> X-Mailer: Microsoft Mail V3.0  
>  
>  
>  
> STS-70  
> 1 23612U 95035A 95199.58075770 .00026568 00000-0 77602-4 0 93  
> 2 23612 28.4638 289.6081 0020761 199.8083 160.1774 15.90378638 810  
>  
> Satellite: STS-70  
> Catalog number: 23612  
> Epoch time: 95199.58075770 = (18-Jul-95 13:56:17.46 UTC)  
> Element set: 009  
> Inclination: 28.4638 deg  
> RA of node: 289.6081 deg  
> Eccentricity: .0020761  
> Arg of perigee: 199.8083 deg  
> Mean anomaly: 160.1774 deg  
> Mean motion: 15.90378638 rev/day  
> Decay rate: 2.6568e-04 rev/day^2  
> Epoch rev: 81  
> Checksum: 341  
>  
>  
> Gil Carman, W5NOM  
>  
>  
  
--  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile  
\*\*\*\*\*

---

### 345. Is the SIG Alive?

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>  
Date: Wed, 19 Jul 1995 14:01:51 -0500 (CDT)  
To: aprssig@tapr.org  
Cc: CHEAD@exame2.dseg.ti.com  
Message-ID: <950719140151.20207d27@exame2.dseg.ti.com>  
Rendered body type: text/plain

I've gotten nothing from the SIG since [APRSSIG:2354] sent at 18 Jul 1995 15:26:29.  
If nothing is broken, that is very unusual!!!

73 Claude  
chead@exame2.dseg.ti.com

---

### 346. Re: [APRSSIG:2344] Re: Garmin altitude omission

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>  
Date: Wed, 19 Jul 1995 09:15:51 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: aprssig@tapr.org  
Message-ID: <Pine.3.89.9507190913.A8008-0100000@bcfreenet>  
Rendered body type: text/plain

Betcha doppler considerations raise heck with an on-board spacecraft GPS receiver.

KB4XE

William Manley  
z002594b@bcfreenet.seflin.lib.fl.us

> >Here's an on-topic one for you space guys: Can (have?) accurate fixes  
> >be/been taken by a GPS aboard the space shuttle?  
> >  
> >Howie

---

### 347. Re: [APRSSIG:2312] RE: MFJ DA

From: moyers@ibm.net  
Date: Tue, 18 Jul 95 21:49:22  
To: aprssig@tapr.org  
Message-ID: <9507190455.AA0106@localhost>  
Rendered body type: text/plain

> In response to RWF's query about paying \$10 extra to get an MFJ 9600 baud  
> capable radio already on 145.79, YES I AM HAPPY to pay only \$129 for 145.79  
> built in! In fact, I was gonna buy a few... but wanted to query the SIG  
> one last time for user feedback. Havent heard a peep from anyone since  
> the initial grumbling about shipping delays.  
>  
Bob, I will second that.

> My concern is temperature stability. Mine will go to WIDE-RELAY sites  
> and they better be on freq in the dead winter and HOT summer!  
>

Temp stability is just the tip of the Iceburg. I also want one with a stout front end, a HT  
frontend is a no go for high rf installations. I have already lost one TEKK uhf 9600 radio to  
intermod deafening the radio to 4uV @ -12 db sinad.

> If you are replying with your opinion on the \$10, please repsond directly  
> to Ralph, only reply here, if you have a MFJ 5 watt radio, and have  
> feedback.

John Moyers N4QEA  
moyers@ibm.net

---

### 348. Re: [NETSIG:1577] Re: APRS over net/rom ?

From: moyers@ibm.net  
Date: Tue, 18 Jul 95 20:55:06  
To: aprssig@tapr.org  
Message-ID: <9507190359.AA0090@localhost>  
Rendered body type: text/plain

>  
> On Mon, 17 Jul 1995, Hank Oredson wrote:  
>  
> >  
> > Some local folks recently posed this question:  
> >  
> > How to set up net/rom and g8bpq switches to pass APRS beacons.  
> >  
> > Can anyone shed some light on this one?  
> >  
> > How do you do it in your part of the network?  
> >  
> > ... Hank  
> >  
> Well the BPQ switch is simple. turn on the beacon and tell it to send  
> your addres in aprs form. I do it every 15 minutes but that's selectable  
> as well....  
>  
> For nodes it depends which type. I think the X1J is do'able but forget  
> just how....  
>  
> 73, karl  
>

On X1J it is easy! Set either the dxcluster or bbs ALIAS to either WIDE or RELAY, Then assign it  
a call and ssid (Here locally we use the callsign of the Gateway Station -9). With the digipeat  
function turned on the node will then beacon anything sent via the alternate ALIAS.

John Moyers N4QEA  
moyers@ibm.net

### 349. Messages?

From: potomacg@telalink.net (Mike Jackson)  
Date: Wed, 19 Jul 1995 15:46:51 -0500  
To: aprssig@tapr.org  
Message-ID: <199507192046.PAA20047@eden.telalink.net>  
Rendered body type: text/plain

I haven't gotten any new messages since yesterday... And I usually see 20 or more a day... Did my POP server miss a bunch or did everybody take a 1 day vacation? (also, any packets digipeated from the shuttle yet?)  
Mike Jackson KD4KSQ

==\*\*\*\*\*==

Mike T. Jackson KD4KSQ  
4819 Jeffery Drive potomacg@medifax.com  
Nashville, Tn 37211-4043 Mxxxxxx@aol.com  
(615) 331-2706 Home (615) 832-3490 PC  
1-800-846-9035 (138) Work

Forget Windows 95.. Windows NT RULES!

==\*\*\*\*\*==

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### 350. WIDE/RELAY with KAM

From: "David G. Henderson" <daveh@moose.erie.net>  
Date: Wed, 19 Jul 1995 16:34:33 -0400  
To: aprssig@tapr.org  
Message-ID: <m0sYgN4-000fygC@moose.erie.net>  
Rendered body type: text/plain

Has anyone tested using RELAY for the node callsign in the KAM. Does it digi?

Have we given any consideration to the QRM this might cause on HF is someone inadvertently has their unproto set to relay on HF and the KAM users digi the packets?

73

\*\*\*\*\*PLEASE NOTE THE NEW INTERNET ADDRESS\*\*\*\*\*

\* David G. Henderson daveh@moose.erie.net \*  
\* Amateur Radio: N3EOY n3eoy@wa3zca.#nwp.pa.usa.noam \*  
\* Emergency Coordinator, Erie County PA SKYWARN \*  
\* Township Supervisor, Franklin Township, Erie Co., PA \*  
\* Work Phone: 814-734-3521 (7 am-3 pm); Fax: same, voice first \*  
\* Home Phone: 814-734-4623; Fax: same, voice first \*  
\* Digital Pager: 814-452-9263 \*

---

### 351. SAREX

From: seront@seism1.ess.sunysb.edu (Bernard Seront)  
Date: Wed, 19 Jul 1995 11:40:13 -0500  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <9507191539.AA00933@seism1.ess.sunysb.edu>  
Rendered body type: text/plain

I didn't received any message for a while, could it be that there is some problems with the listserv (or with my account)? If this message is correctly distributed, can someone confirm that directly to me.

Anyway here is an update of my observations:

>From my location, Long Island, 50 miles east of New York City, 145.55 has always been dead!

Looks like I am way too north for this mission. Does anybody hear the shuttle at more than 40° north?

Bernard, KB2TGH

---

### 352. re: Penstock/antennas

From: jgarrett@world.std.com (John Garrett)  
Date: Wed, 19 Jul 1995 13:13:08 -0400  
To: aprssig@tapr.org  
Message-ID: <aqJ3mmPA4sE6065yn@World.std.com>  
Rendered body type: text/plain

I called Penstock today [800-767-3478] and was referred to a local office in the Boston area [617-229-9100]. They informed me that they do not sell MA/Com nor Trimble GPS antennas.

John  
WN9T

---

### 353. Re: [APRSSIG:2344] Re: Garmin altitude omission

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)  
Date: Tue, 18 Jul 1995 15:02:11 -0700  
To: aprssig@tapr.org  
Message-ID: <v01510100ac31de937026@[128.149.100.84]>  
Rendered body type: text/plain

>Don't know if GPS is used for shuttle, but I'm working on an ocean monitoring  
>satellite that will navigate solely by GPS. There have been a couple of  
>spacecraft recently which carry GPS for auxiliary navigation as an experiment,  
>but I believe mine will be the first to use it as the only on board nav system.

I believe the NASA/CNES TOPEX/Poseidon radar altimeter satellite flew a GPS  
as an experiment, and that it has been so successful that it is now used as  
the primary navigation instrument.

-Greg

--  
Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov  
Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org  
Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA  
M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107  
Pasadena, CA 91109 |

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### 354. APRS-SAREX version 71d

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Wed, 19 Jul 1995 17:49:02 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950719170031.13329B@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

THIS VERSION IS ONLY IF YOU WANT TO TRY A BETTER UNATTENDED SAREX MODE  
TONIGHT (Wed) since Thurs morning will be the last SAREX passes this mission.  
Otherwise do NOT bother getting this version.

This temporary version uploaded as SPACE71d.zip contains the APRS71d.exe  
and a new SPACE and METEOR.txt. It is the result of Jerry Creager's obvious  
suggestion to ignore all this orbit timing stuff, and just look for any  
packet from W5RRR-1!!!

Version 71d then when placed in the SPACE mode, will just sit there doing  
its own APRS thing until it hears a packet from the callsign currently  
loaded as the digipeater in your UNPROTO string. Whenever it hears that  
callsign, it resets the BEACON and POSIT period timers to minimum and then  
also waits a random number between 0 and 20 seconds before sending the  
first packet. As usual if your packet is HEARD via the space  
DIGIpeater, then you are congratulated and your timers are MAXED out.  
Notice that on each SAREX packet heard, the timers are reset and the  
random number restarts between 0 and 20. So with SAREX packets every 3  
seconds, you only have a 3 in 20 chance of even getting a packet  
transmitted once every APRS cycle time of 5 seconds. This means, as long  
as you are seeing SAREX packets, the count-down numbers don't mean much,  
since they are constantly being reset....

To show you what is going on, the SPACE MODE display says "ARMED!" if it  
is sitting there waiting for the first packet from SAREX. Once you are  
successful, then the display returns to SPACE mode. After 10 minutes  
have passed, then the ARMED! is reset to be ready for the next pass.  
This gets rid of all that next orbit calculations based on orbital periods!

Also this version has a first attempt at METEOR SCATTER mode... See  
METEOR.txt.

---

### 355. [APRSSIG:2361] EAA Convention Oshkosh '95 -Reply

From: JAMES WILEY <WILEYJ@mail.conservation.state.mo.us>  
Date: Wed, 19 Jul 1995 16:11:01 -0500  
To: aprssig@tapr.org  
Message-ID: <s00d2eac.023@mail.conservation.state.mo.us>  
Rendered body type: text/plain

If all goes well, I will be "flying in" to Oshkosh with APRS running  
(standalone tracker) - N0ILB-7. Current plans are to depart Jefferson  
City, MO on Sun 23 July enroute to Lacross, WI for a 4 day stay and fly in  
to Oshkosh with 40-50 other Short Wing Pipers on Thursday 27 July. I  
will convert to mobile operations during the stay... Jim Wiley (N0ILB)

**356. (no subject)**

From: "Samuel T. Nabkey" <wj8t@w8dc.ampr.org>  
Date: Fri, 04 Aug 95 00:31:28 UTC  
To: aprssig@tapr.org  
Message-ID: <27165@w8dc.ampr.org>  
Rendered body type: text/plain

Subscribe

[illegible]

**357. Re: [APRSSIG:2349] APRS-SAREX score card (Tues)**

From: edwardwr@interaccess.com (Edward W Rogers)  
Date: Wed, 19 Jul 1995 18:04:48 -0500  
To: aprssig@tapr.org  
Message-ID: <199507192300.SAA29026@psycfrnd.interaccess.com>  
Rendered body type: text/plain

>  
>In the few days of SAREX remaining we need to take advantage of every  
>opportunity when SAREX packet mode is on. If you cannot attend your  
>station, then ENLIST another APRS station who will be home during  
>passes. He does NOT need to be a subscriber to this list. He can  
>report his results to you, and you to us. If you are new to SPACE,  
>review the notes on Doppler shift at the bottom of this message.

Deleted stuff

| DAY                    | TIME | ZONE | STATES<br>SEEN | REPORT                                      |
|------------------------|------|------|----------------|---------------------------------------------|
| ----                   | ---- | ---- | ----           | -----                                       |
| 16                     | 0737 | CDT  |                | following text "W5RRR-1 and KC50ZX"         |
| 16                     | 1602 | CDT  |                | ROMIR-1 BBS command line                    |
| 18                     | 0730 | CDT  |                | station appeared to digi via W5RRR-1 but no |
| readable data observed |      |      |                |                                             |

Bob, will anyone be able to do a "mheard" command on W5RRR-1 to see if any of the packets made it? It doesnt appear to have made any readable data in the Chicago area.

73

Ed

**358. Re: [APRSSIG:2360] Re: UFO's On Packet**

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 19 Jul 1995 18:31:00 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507192331.SAA13006@solar.cs.tamu.edu>  
Rendered body type: text/plain

Jess Girard sez:

```
> Hi Bob:
>
> The problem with trying to use existing VHF packet techniques for MS and
> other difficult modes such as Aurora is that we're using fm. Between the
> waste of power and phase distortion it's a wonder that packet works at
> all. I suspect if we were to switch to ssb we'd be amazed at the range
> improvement and also how many more stations we could fit per MHz of band
> space. Remember if you use ssb all the output power is funnelled into the
> mark and space frequencies only. No other audio frequencies (well, rf, if
> you wanna be picky) go out into the antenna.
```

This is something we discovered with PSK. Using sideband instead of FM, an improvement of almost 10 dB was realized...

(thanks to Tom Clark and Phil Karn for beating...er, ah... pointing this out

```
> I can't remember my information theory well enough at this instant; would
> the "baud" rate have to drop if we used ssb? I'm drawing a blank. If it
> looks useful I'd be willing to invest in a multimode rig.
```

Gerry N5JXS  
gerry@cs.tamu.edu

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 19 Jul 1995 18:34:13 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507192334.SAA13108@solar.cs.tamu.edu>  
Rendered body type: text/plain

— —

\*\*\*\*\*

From: jeff.brenton@espi.com  
Date: Wed, 19 Jul 95 21:24:46 -0500  
To: aprssig@tapr.org  
Message-ID: <9507192124.0U2XH0A@espi.com>  
Rendered body type: text/plain

APRS says (when highlighted with the N command) that the winds are 70 MPH, and the temp is "acA"....

From: sdimse@umed.miami.edu (Steven S. Dimse)  
Date: Wed, 19 Jul 95 0:28:39 EDT  
To: aprssig@tapr.org  
Message-ID: <9507190428.AA15295@umed.miami.edu>  
Rendered body type: text/plain

Steve

From: jeff.brenton@espi.com  
Date: Thu, 20 Jul 95 00:56:13 -0500  
To: aprssig@tapr.org  
Message-ID: <9507200056.01BE40A@espi.com>  
Rendered body type: text/plain

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I'll be headed to Oshkosh on Wednesday, 26 July, with a GPS and KPC-3 running. Departing from 4218.76N/08825.54W. I've been beaconing for digis up north of the Illinois state line for the last week - every one I have seen so far goes off the air within 36 hours, usually less than 2!

I've already talked with one of the bigwigs at ICOM, who was going to put the word in with Amateur Electronics, and MAYBE they'll leave their WIDE on 145.79 for more than an hour at a time...

(don't know if I'll be running APRS on the way up, unless I can get the HSP port to work. voltage conflicts with the laptop and TNC are a problem, too)

---

### 363. (no subject)

From: sneaker@mindspring.com (Chris Jernigan)  
Date: Thu, 20 Jul 1995 02:19:30 -0400  
To: aprssig@tapr.org  
Message-ID: <199507200624.CAA16603@dylan.mindspring.com>  
Rendered body type: text/plain

Hi.. i have just joined the group and am enjoying APRS..  
I have a question.. its prob. a dumb one but..  
would it be possible for the shuttle to send out APRS info so we could track it?  
or is this already being done or in the works  
thanx  
cj

---

### 364. MFJ radios

From: gwyn@paccomm.com (Gwyn Reedy, WIBEL)  
Date: Thu, 20 Jul 95 06:29:04 UTC  
To: tapraprssi  
Message-ID: <1271@paccomm.com>  
Rendered body type: text/plain

You'll find that the MFJ radio has similar front-end shortcomings to the TEKK. Offsetting that are excellent 9600 baud performance and low price. Personally I wouldn't hold my breath for a unit with super front end in that price class, but it sure would be nice....

Gwyn Reedy, WIBEL      gwyn@paccomm.com      WIBEL@amsat.org  
+ (813) 874-2980      Fax: + (813) 872-8696      BBS: + (813) 874-3078 (V.34)  
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

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### 365. Re: [APRSSIG:2371] Re: Garmin altitude omission

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Thu, 20 Jul 1995 07:25:57 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507201225.HAA18635@solar.cs.tamu.edu>  
Rendered body type: text/plain

Nope. Not if you are prepared for the velocity. One merely takes the pseudorange matrix and solves for the most likely solution.

gerry

--

Gerry Creager    N5JXS      \*    SAREX Co-Investigator  
gerry@cs.tamu.edu      \*    A little radio that lets kids talk  
                         \*    to astronauts, and smile

\*\*\*\*\*

---

### 366. Re: [APRSSIG:2377] re: Penstock/antennas

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Thu, 20 Jul 1995 07:32:01 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507201232.HAA18722@solar.cs.tamu.edu>  
Rendered body type: text/plain

John Garrett sez:

>

> I called Penstock today [800-767-3478] and was referred to a local  
> office in the Boston area [617-229-9100]. They informed me that they do  
> not sell MA/Com nor Trimble GPS antennas.  
M/A Com antennas aren't sold by the vendors, but by M/A Com. I'll call my sales rep today and get more info.



73, gerry  
--  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile  
\*\*\*\*\*

---

### 367. Re: [APRSSIG:2376] SAREX

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Thu, 20 Jul 1995 07:46:22 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507201246.HAA18807@solar.cs.tamu.edu>  
Rendered body type: text/plain

Bernard Seront sez:

>  
> Anyway here is an update of my observations:  
> >From my location, Long Island, 50 miles east of New York City, 145.55 has  
> always been dead!  
> Looks like I am way too north for this mission. Does anybody hear the  
> shuttle at more than 40=B0 north?

For a 28 degree mission, which this is/was, you're pretty far north but not completely out of the question. Unfortunately you get only 1-2 passes of a couple of minutes a day.

73, gerry  
--  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile  
\*\*\*\*\*

---

### 368. Re: [APRSSIG:2388]

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Thu, 20 Jul 1995 07:54:21 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507201254.HAA18875@solar.cs.tamu.edu>  
Rendered body type: text/plain

I'm working on that, Chris. I do not anticipate it to be an easy fix, off hand,because of the new hardware requirement.

73, gerry  
--  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile  
\*\*\*\*\*

---

### 369. Re: [APRSSIG:2365] Re: Meteor Scatter proposal

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 20 Jul 1995 08:57:39 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950720085141.15680A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Wed, 19 Jul 1995 BenWS5R@aol.com wrote:

> If anyone is serious abt meteor scatter work lets set up a sched, freq, and  
> mode for the upcoming persiuds in August. I may run a portable station during

APR REPLY: Im working feeverishly on it! There will be a meteor SHOWER mode in the next version. It divides the country in to 4 quadrants, and APRS stations in each quadrant all transmit randomly for 2.5 seconds within their 15 second window. They will transmit very short packets (10 per xmission) of the form:

WB4APR>FM19SX:  
WB4APR>FM19SX:  
.....

My suggestion is that we do this on 145.79 (Unless someone has a better idea) and we get EVERYONE NATIONWIDE (on APRS) to participate for 24 hours. We put out the word here, and everyone then posts local bulletins on their local nets. We shut off the gateways. Hows that?

### 370. Re: [APRSSIG:2385] MacAPRS v. APRS

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 20 Jul 1995 09:12:59 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950720090857.15680D-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Thu, 20 Jul 1995 jeff.brenton@espi.com wrote:

>  
> N9QGS has installed MacAPRS at his station in the Chicago area. APRS  
> is misinterpreting his PHG beacons, and tripping my Wx alarms. :  
>  
> @192231z4201.15N/08809.65WPHG6170/MacAPRS (Registered) / Streamwood  
>  
> APRS says (with the N command) that the winds are 70 MPH...

APR REPLY: He is using the symbol W which means NWS WX station. That must be triggering APRS to try to parse his packet as a WX report. I can now see that you may in fact want to use the NWS symbol without always including a WX report. I will fix this. THANKS!

### 371. APRS-SAREX score card (Thurs)

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 20 Jul 1995 10:10:49 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950720092616.15899A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

#### THURSDAY

I assume this was the last day for SAREX since they land tomorrow morning. Here is the final summary and A DETAILED REQUEST FOR YOUR STATISTICS at the end. Please respond to the specifics requested.

| DAY | TIME | ZONE | STATES | REPORT |
|-----|------|------|--------|--------|
|     |      |      |        | SEEN   |

|      |      |     |    |                                          |
|------|------|-----|----|------------------------------------------|
| Thur |      |     |    | Launch, no activity                      |
| Fri  |      |     |    | voice comms general QSO's reported       |
| SAT  | 0835 | EDT |    | *SAREX packet heard in MD                |
|      | 1005 | EDT | NC | **APRS posit from W4NMK seen in MD!      |
| SUN  | 0705 | EDT |    | Open VOICE QSO's heard in MD,NC          |
|      | 0720 | EDT | MD | MIR: G3ZCZ non-APRS UI gridsquare (FM19) |
|      | 0838 | EDT |    | *SAREX packet! no APRS seen in MD NC     |
|      | 1013 | EDT |    | Open VOICE QSO's heard in NC,TX          |
| MON  | 0537 | EDT |    | *SAREX packet! no APRS seen in MD        |
|      | 0712 | EDT |    | *SAREX packet! no APRS seen in MD        |
|      | 0847 | EDT |    | nothing heard                            |
| TUES | 0540 | EDT |    | no packet detected                       |
|      | 0715 | EDT |    | Open voicec QSO's                        |
|      | 0852 | EDT |    | no packet detected                       |
|      | 1022 | EDT |    | Open voice QSO's heard in N.CA           |
|      | 1157 | EDT |    | Open voice QSO's heard in N.CA           |
| WED  | 0416 | EDT |    | no packet detected                       |
|      | 0550 | EDT |    | no packet detected                       |
|      | 0726 | EDT |    | Open voice QSO's                         |
| THUR | 0423 | EDT |    | no packet detected                       |
|      | 0600 | EDT |    | no packet detected                       |
|      | 0730 | EDT |    | no packet detected                       |

If you observed something different or saw ANY UI frame, please let me know. Also, there should be 1 or 2 additional passes per day over the west coast that we eastcoast guys could not hear. Can some one fill those in? Please do NOT edit and return this list, but send me the lines for me to insert. Thanks.

HERE ARE THE STATISTICS WE NEED to get a flavor of what was going on. There should have been about 22 passes for high latitude stations, more for southerners.

| CALL   | LAT | LON | TOTL PASS | PCKT PASS | ACTIVE PASSES | 0 PKTS | 1-5 PKTS | 5-10 PKTS | 10-20 PKTS | lots PKTS | APRS PKTS | COMMENTS |
|--------|-----|-----|-----------|-----------|---------------|--------|----------|-----------|------------|-----------|-----------|----------|
| WB4APR | 39  | 076 | 22        | 5         | 4             | 2      | 1        | 1         | .          | .         | 1         | W4NMK    |
| W3ADO  | 39  | 076 | 19        | 5         | 3             | 1      | 1        | 1         | .          | .         | 1         | W4NMK    |

TOTAL PASSES: Total for which your station was at least LISTENING  
PACKET PASSES: Total passes on which packets were DETECTED (ear is ok)  
ACTIVE PASSES: PACKET PASSES when you were ACTIVELY sending UI frames above the normal background level. Either live or by

using the APRS unattended mode to work ON SCHEDULE.  
# of PKTS DECODED: These are ONLY for those passes on which you were aware that there WERE packets (FROM THE SAREX!)  
0 PACKETS: You heard packets by ear but NONE decoded on ur TNC  
1-5 PACKETS: Total PACKETS of all types decoded FROM SAREX

Do not report obvious UPLINK packets from your neighbors who accidentally were transmitting on the DOWNlink.. Do NOT edit and return this message, unless you cut out everything but your report line... Otherwise, just send me a line with your data... THANKS!

Notice my report. Although I was listening on EVERY pass, and I had APRS properly configured for 90% of them, 2 of my goofs happened to be during the 5 actual PACKET passes! I was getting real good, tho, by Wednesday!

---

### 372. QSO with W5RRR via W5RRR-1 as a digipeater (fwd)

From: Gerald J Creager <gergy@cs.tamu.edu>  
Date: Thu, 20 Jul 1995 09:15:42 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507201415.JAA19626@solar.cs.tamu.edu>  
Rendered body type: text/plain

Ramon Santoyo V. sez:  
>From listmaint@AMSAT.Org Thu Jul 20 08:54:43 1995  
Message-Id: <199507181357.HAA04486@mail.internet.com.mx>  
X-Sender: ramsan@mail.internet.com.mx  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Tue, 18 Jul 1995 14:00:53 +0000  
To: amsat-bb@AMSAT.Org  
From: ramsan@mail.internet.com.mx (Ramon Santoyo V.)  
Subject: QSO with W5RRR via W5RRR-1 as a digipeater  
X-Mailer: <PC Eudora Version 1.4>

I had an interesting QSO with W5RRR JSC Club Station this morning using W5RRR-1 as a digipeater. I have edited the LOG file for space reasons.

While connecting to the W5RRR-1 Robot I notice that W5RRR JSC was testing the digipeater.

```
W5RRR>W5RRR-1*>W5RRR [I,P;0,0]:  
digi test
```

```
W5RRR>W5RRR-1*>W5RRR [RR,P;1]
```

```
W5RRR>W5RRR-1*>W5RRR (RR,F;1)  
W5RRR>W5RRR-1*>W5RRR [I,P;1,1]:  
digipeat is on
```

```
W5RRR>W5RRR-1*>W5RRR (RR,F;2)  
W5RRR>W5RRR-1*>W5RRR [I,P;2,1]:  
digipeat is on
```

So I decide to connect with them.

```
*** CONNECTED to W5RRR via W5RRR-1
```

```
XE1KK*>W5RRR-1>W5RRR [I,P;0,0]:  
c w5rrr v w5rrr-1
```

I recived a very fast answer from JSC:

```
W5RRR>W5RRR-1*>XE1KK (RR,F;1)  
W5RRR>W5RRR-1*>XE1KK [I,P;1,0]:  
Hello from JSC
```

Then some packets were exchanged:

```
XE1KK*>W5RRR-1>W5RRR (RR,F;1)  
XE1KK*>W5RRR-1>W5RRR [I,P;1,1]:  
Hello from mexico  
XE1KK>W5RRR-1*>W5RRR (RR,F;1)  
XE1KK>W5RRR-1*>W5RRR [I,P;1,1]:  
Hello from mexico
```

```
XE1KK*>W5RRR-1>W5RRR [I,P;1,2]:  
Nice to QSO!!!!!!  
XE1KK>W5RRR-1*>W5RRR [I,P;1,2]:
```

```

Nice to QSO!!!!!!

W5RRR>W5RRR-1*>XE1KK (RR,F;3)
W5RRR>W5RRR-1*>XE1KK [I,P;3,1]:
Gil here at W5RRR

XE1KK*>W5RRR-1>W5RRR (RR,F;2)
W5RRR>W5RRR-1*>XE1KK [RR,P;3]

XE1KK*>W5RRR-1>W5RRR (RR,F;2)
Hello Gil.. here RAMON PSE QSL!
Hello Gil.. here RAMON PSE QSL!
XE1KK*>W5RRR-1>W5RRR [I,P;2,3]:
Hello Gil.. here RAMON PSE QSL!
XE1KK>W5RRR-1*>W5RRR (RR,F;2)
W5RRR>W5RRR-1*>XE1KK [RR,P;3]

By that time WA5FRF was trying to connect with Gil at JSC and my LOS was
close so I disconnect:

```

```

WA5FRF>W5RRR-1*>W5RRR [D,P]

XE1KK*>W5RRR-1>W5RRR [D,P]

W5RRR>W5RRR-1*>WA5FRF (DM,F)

W5RRR>W5RRR-1*>XE1KK [RR,P;3]

*** DISCONNECTED: W5RRR via W5RRR-1

```

```

### LOG ### DISconnected from W5RRR - Tue Jul 18 12:54:02 1995

```

It was my firts packet contact using W5RRR as a digipeater, and it was a pleasure that this QSO was with W5RRR JSC.

```

=====
73 from Mexico!      Internet:  ramsan@mail.internet.com.mx or xe1kk@amsat.org
                     Packet:    XE1KK@XE1LM.#DF.MX.NA and XE1KK@145.010MHz
                     QSL 100%:  P.O. Box 19-564, 03901 Mexico D.F., MEXICO
                     XE1KK      QRV:    A0-13, A0-10, RS-11/12, RS-12/13, RS-15, FO-20
                                     A0-27, 144, 432, 50 MHz and HF from EK09kh.
Ramon Santoyo V.    ExCalls:  4C1KK, 6D5XMT/QRP, XE1XMT/QRP, XE1RL, 6FB387
                     SATELITES: FAQ in spanish about Hamsats, email for a copy
=====

```

```

--
Gerry Creager  N5JXS      * SAREX Co-Investigator
gerry@cs.tamu.edu        *   A little radio that lets kids talk
                        *   to astronauts, and smile
*****

```

### 373. Kantronics remote SYSOP

```

From: jeff.brenton@espi.com
Date: Thu, 20 Jul 95 10:19:53 -0500
To: aprsig@tapr.org
Message-ID: <9507201019.0EII10B@espi.com>
Rendered body type: text/plain

```

I offer up the following two scripts, which are written in Crosstalk's CASL scripting language and run in Crosstalk Mk.4, Crosstalk Communicator, and Crosstalk for Windows, for logging into a Kantronics TNC that has the remote SYSOP option. These include the KPC-3, KPC-4, and KAM+, as well as possible others.

You can probably translate these to other COMM program scripting languages; the only weird item, compared to, say, Procomm, is the "slice" function. SLICE breaks a string into parts based upon delimiters (default is SPACE), and it simplified breaking the six-number strings up... The login script also choses the password string to use based upon the seconds since midnight, so you aren't likely to use the same string consistantly. This should keep your RTEXT secure.

First, a script that will initialize the RTEXT string; the text is anything you want it to be, but you should mix up case, as well as consider not using a real sentence. Just make sure you use the EXACT SAME STRING in both scripts - I use my editor's cut-and-paste feature

to make sure...

```
remtext = "This is AN Arbitrary string that iS used as the PasSword sTRing"
reply "RTEXT ";
reply remtext
```

Now that the TNC is set, this script can be run. It takes one argument, which is the call sign to be connected to. In my case, my mobile TNC is designated "WDSTK-12", so I invoke the script with "DO REMCON WDSTK-12". It also assumes you are already attached to the TNC's dialing card.

```
-- Initialize strings
remtext = "This is AN Arbitrary string that iS used as the PasSword sTRing"
remote = "C " + arg
string TNCreply, passw[3]
integer cntr,cntr1
string TNCpassw

reply remote          -- make the connection to the specified remote
label TNCloop
TNCreply = nextline    -- find out what TNC says
if instr(TNCreply,"*** CONNECTED") = 0 then goto TNCloop
-- If we get here, we're connected, and will be getting some strings
passw[0] = nextline
passw[1] = nextline
passw[2] = nextline

-- Select string to use based upon seconds since midnight
cntr = secno mod 3
passw[3] = passw[cntr]

-- Now, compute string to broadcast
strptr=1
TNCpassw=""

for cntr = 1 to 6
  cntr1 = val(slice(passw[3],cntr))
  TNCpassw = TNCpassw + mid(remtext,cntr1,1)
  strptr = instr(passw[3]," ",strptr)
next cntr

reply TNCpassw
```

As I said, these two scripts have been tested with three versions of Crosstalk in current production, so have at it!

---

### 374. BALLOON ALTITUDE Sensor \$9

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 20 Jul 1995 11:39:19 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950720113234.16848C-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Carl Wick, N3MIM found a source of TINY ABSOLUTE 0-15 PSI pressure sensors about the size of a marble. They are wheatstone bridges and when connected to a small 8 pin differential chip, make an excellent LIGHTWEIGHT sensor:

SENSOR: .03% linearity, 100mv FS output, \$55 regular. Sale \$10 each  
or less in quantities of 10 or so...  
RESOURCES UNLIMITED, 603 668-2499

INSTRUMENT AMPLIFIER: INA-118 tripple instrumentation amp. Only needs one resistor to set gain. 3 for \$24.95 from BURR BROWN. Address unkonwn at this point...

---

### 375. MacAPRS and JNOS

From: cts@direct.ca (Fred Kehler (ve7ipb))  
Date: Thu, 20 Jul 1995 10:03:54 -0700  
To: aprssig@tapr.org  
Message-ID: <199507201657.JAA01207@linux.clrtech.com>  
Rendered body type: text/plain

Hi Keith, i am wondering, with the new versions of JNOS (tcpip/ax25 packet software) supporting 'trace sockets' allowing you to monitor all packet traffic on a particular station (any or all freqs on that station) via a telnet session. MacAPRS supports the Mac communications toolbox what are the chances of MacAPRS using the tcpip tools to monitor some jnos sockets? This would have some very intersting applications here where I have a

mountainside jnos node linked with 2MBit spread spectrum link down to a valley floor LAN.  
any comments?  
73's --fred ve7ipb

---

### 376. Map questions...

From: jan@archimedes.vislav.navy.mil (Jan A. Barglowski)  
Date: Thu, 20 Jul 1995 10:24:47 -0700  
To: aprssig@tapr.org  
Message-ID: <v01520d03ac33df00477c@[129.131.31.10]>  
Rendered body type: text/plain

Hiya!

I've been trying to make some maps of my area from the 1:100000 CDROM. I'm using MAPFIX12 to import in my .GRF files.

I can't get the "C" command in MAPFIX12 to remove the single point features. Is there a trick to this?

I'm also using DEFRAG.BAS to (drastically) reduce the number of points. On one map, tho, I'm getting a "Input past end of file" error. Any way to get around this?

Thanks for any and all help!

73, jan  
kc6uth

|                          |                                       |
|--------------------------|---------------------------------------|
| Jan Anthony Barglowski   | Phone: (619) 927-1057                 |
| Computer Dude            | Internet: jan@archimedes.nwc.navy.mil |
| Visualization Lab        | Packet: SYSOP@WA6YBN.#SOCA.CA.US.NA   |
| Naval Air Warfare Center | kc6uth@kc6uth.ampr.org                |
| -Weapons Division        | [44.17.2.6]                           |

### 377. Garmin 45 ver 2.41

From: crawford@uniserve.com  
Date: Wed, 19 Jul 95 11:26:50 +0800  
To: aprssig@tapr.org  
Message-ID: <9507191830.AA0028@pm2-41.TVS.NET>  
Rendered body type: text/plain

For those of you with the Garmin GPS-45, ver 2.41, you may have discovered if you run in Simulator mode, the unit powers down after a minute or so. I phone Garmin today and they are aware of the problem. They state they're writing ver 2.42 and it will be available near the end of August. If you feel you need the update, contact them then, and make arrangements to send your unit in then.

On a side note, there has been alot of slamming the GPS 45 due to it's 99kts speed limit. I agree if you wish to use it for aviation that's no good. However, it goes past 100 mph no problem, so for most other uses the limit shouldn't present a problem.

Steve Crawford  
crawford@uniserve.com  
Amateur Radio Packet: VE7IIF@VE7KIT.#VANC.BC.CAN.NA  
Ph/Fax: (604) 826-6295

### 378. Re: Garmin 45 ver 2.41

From: crawford@uniserve.com  
Date: Wed, 19 Jul 95 11:39:50 +0800  
To: aprssig@tapr.org  
Message-ID: <9507191840.AA0034@pm2-41.TVS.NET>  
Rendered body type: text/plain

For those of you with the Garmin GPS-45, ver 2.41, you may have discovered if you run in Simulator mode, the unit powers down after a minute or so. I phone Garmin today and they are aware of the problem. They state they're writing ver 2.42 and it will be available near the end of August. If you feel you need the update, contact them then, and make arrangements to send your unit in then.

On a side note, there has been alot of slamming the GPS 45 due to it's 99kts speed limit. I agree if you wish to use it for aviation that's no good. However, it goes past 100 mph no problem, so for most other uses the limit shouldn't present a problem.

Steve Crawford  
crawford@uniserve.com  
Amateur Radio Packet: VE7IIF@VE7KIT.#VANC.BC.CAN.NA

Ph/Fax: (604) 826-6295

Steve Crawford  
crawford@uniserve.com  
Amateur Radio Packet: VE7IIF@VE7KIT.#VANC.BC.CAN.NA  
Ph/Fax: (604) 826-6295

---

### 379. Re: [APRSSIG:2141] Heathkit Handi-packet and APRS?

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)  
Date: Thu, 20 Jul 95 17:25:49 UTC  
To: aprssig@tapr.org  
Message-ID: <1379@paccomm.com>  
Rendered body type: text/plain

Seems like the Heath unit can change word length and parity with software commands.

Or: PacComm offers our latest version code for the Heath Pocket Packet.  
Update about 7 years in one EPROM change. \$50.

-----  
Gwyn Reedy, W1BEL      gwyn@paccomm.com      W1BEL@amsat.org  
+ (813) 874-2980      Fax: + (813) 872-8696      BBS: + (813) 874-3078 (V.34)  
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

---

### 380. help with KPC3 V 6.0

From: KD4EMI@aol.com  
Date: Thu, 20 Jul 1995 21:32:12 -0400  
To: aprssig@tapr.org  
Message-ID: <950720213211\_119451011@aol.com>  
Rendered body type: text/plain

I would like to set up a stand alone tracker. Can anyone assist me in the set up of the KPC 3. How do I configure the NMEA on the garmin 45 to transmit APRS format stuff. There is no computer, just the kpc and garmin.  
Thanks in advance  
Mike KD4EMI@AOL.COM

---

### 381. Final SAREX summary FORMAT revised!

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Thu, 20 Jul 1995 22:18:10 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950720220051.21389B-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

This message is being REPEATED, because my detailed directions were CLEARLY confusing. 100% of responses so far have missinterpreted the way I meant for the statistics to be reported. This following format is the SAME, but the explanation is much better and less ambiguous.

FINAL REPORT (DRAFT FORMAT)rev(0) for the APRS-SAREX experiment

DAY    TIME    ZONE    STATES    REPORT  
              SEEN

-----  
Thur                            Launch, no activity  
Fri                            voice comms general QSO's reported  
SAT    0835 EDT                \*SAREX packet heard in MD  
         1005 EDT    NC        \*\*APRS posit from W4NMMK seen in MD!  
SUN    0705 EDT                Open VOICE QSO's heard in MD,NC  
         0720 EDT    MD        MIR: G3ZCZ non-APRS UI gridsquare (FM19)  
         0838 EDT                \*SAREX packet! no APRS seen in MD NC  
         1013 EDT                Open VOICE QSO's heard in NC,TX  
MON    0537 EDT                \*SAREX packet! no APRS seen in MD  
         0712 EDT                \*SAREX packet! no APRS seen in MD  
         0847 EDT                nothing heard  
TUES   0540 EDT                no packet detected  
         0715 EDT                Open voicec QSO's  
         0852 EDT                no packet detected  
         1022 EDT                Open voice QSO's heard in N.CA  
         1157 EDT                Open voice QSO's heard in N.CA  
WED    0416 EDT                no packet detected  
         0550 EDT                no packet detected  
         0726 EDT                Open voice QSO's

THUR 0423 EDT        no packet detected  
0600 EDT            no packet detected  
0730 EDT            no packet detected

HERE ARE THE STATISTICS FOR THE EVENT:

| CALL   | LAT | LON | TOTL PASS | PKT PASS | ACTIVE PASSES | 0 PKTS | 1-5 PKTS | 6-10 PKTS | 11-20 PKTS | lots PKTS | APRS PKTS | COMMENTS |
|--------|-----|-----|-----------|----------|---------------|--------|----------|-----------|------------|-----------|-----------|----------|
| WB4APR | 39  | 076 | 22        | 5        | 4             | 2      | 1        | 1         | .          | .         | 1         | W4NMK    |
| W3ADO  | 39  | 076 | 19        | 5        | 3             | 1      | 1        | 1         | .          | .         | 1         | W4NMK    |
| W4NMK  | 35  | 082 | 17        | 5        | X             | *      | *        | *         |            |           |           |          |
| KK6IB  | 33  | 117 | 16        | Y        | X             | *      | *        | *         |            |           |           |          |

Note, the numbers in the \* columns should add up to the number Y...

TOTAL PASSES: Total for which your station was at least LISTENING  
PACKET PASSES: Total passes on which packets were DETECTED (ear is ok)  
ACTIVE PASSES: For the PACKET PASSES ONLY, indicate the number of those passes you were ACTIVELY sending UI frames (at the right time) above the normal background level. Either live or by using the APRS unattended mode.  
0 PKTS: This is the number of PACKET passes during which you HEARD packets, but decoded NONE  
1-5 PKTS: The number of passes when you decoded 5 or less pkts  
6-10 PKTS: The number of passes when you decoded 6 to 10 pkts  
etc

Do not report obvious UPLINK packets from your neighbors who accidentally were transmitting on the DOWNlink.. Do NOT edit and return this message, unless you cut out everything but your report line... Otherwise, just send me a line with your data... THANKS!

Notice my report. Although I was listening on EVERY pass, and I had APRS properly configured for 90% of them, 2 of my goofs happened to be during the 5 actual PACKET passes! I was getting real good, tho, by Wednesday!

---

### 382. Garmin GPS 45 version #?

From: rtm@newton.apple.com (Bob Martin)  
Date: Thu, 20 Jul 1995 22:02:45 -0700  
To: aprssig@tapr.org  
Message-ID: <v02120d00ac34e52fb17d@[17.201.246.89]>  
Rendered body type: text/plain

How do I get a Garmin 45 to show me its version number? I expect to pick one up this weekend.

73-

-----  
Bob Martin        \* rtm@newton.apple.com  
N6MZV            \* N6MZV @ N0ARY.#NOCAL.CA.USA.NOAM  
--

---

### 383. Re: [APRSSIG:2407] Garmin GPS 45 version #?

From: Jess Girard <girard@panix.com>  
Date: Fri, 21 Jul 1995 09:27:39 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950721092138.22963A-100000@panix.com>  
Rendered body type: text/plain

On Fri, 21 Jul 1995, Bob Martin wrote:

> How do I get a Garmin 45 to show me its version number? I expect to pick  
> one up this weekend.

Bob:

When you turn on the unit it will display the PROM version.

Jess  
ND1L

---

### 384. Re: [APRSSIG:2399] BALLOON ALTITUDE Sensor \$9

From: seront@seism1.ess.sunysb.edu (Bernard Seront)  
Date: Fri, 21 Jul 1995 10:09:12 -0500



To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <9507211408.AA02207@seism1.ess.sunysb.edu>  
Rendered body type: text/plain

At 10:53 AM 7/20/95 -0500, Bob Bruninga wrote:  
>Carl Wick, N3MIM found a source of TINY ABSOLUTE 0-15 PSI pressure  
>sensors about the size of a marble.

Nice!

>  
>SENSOR: .03% linearity, 100mv FS output, \$55 regular. Sale \$10 each  
> or less in quantities of 10 or so...  
> RESOURCES UNLIMITED, 603 668-2499

In someone buy extra of these, I take one or two!

>  
>INSTRUMENT AMPLIFIER: INA-118 tripple instrumentation amp. Only needs  
>one resistor to set gain. 3 for \$24.95 from BURR BROWN. Address  
>unkonwn at this point...  
>

The family INA (INA104,101,102,110,106,117,118 ...) are very good, easy to use, almost bullet proof, instrumentation amplifiers. We used some of these in scientific strain gauges applications with success. Gain is usually adjustable 1-500 or 1000, some are very low noise, very high accuracy, other are high input impedance (FET input). The integrated circuit data book from Burr Brown contains all the informations needed to use them with examples, typical applications circuit, schematics: you just need to pick the best schematic for you purpose and wire it on a PCB, success guaranteed.

Here is the address (dated 1989, hope this is still the same):

Burr Brown Corporation  
International Airport Industrial Park

street address:  
6730 S. Tucson Blvd.  
Tucson, AZ, 85706

mailing address:  
PO Box 11400  
Tucson, AZ, 85734

tel 602-746-1111  
fax 602-889-1510  
product information: 800-548-6132.

Usual disclaimer: ..., i am just a satisfied customer.

Bernard, KB2TGH.

---

### 385. [APRSSIG:2407] Garmin GPS 45 Version #?

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>  
Date: Fri, 21 Jul 1995 8:28:28 -0500 (CDT)  
To: aprssig@tapr.org, rtm@newton.apple.com  
Cc: CHEAD@exame2.dseg.ti.com  
Message-ID: <950721082828.2020c042@exame2.dseg.ti.com>  
Rendered body type: text/plain

Bob, the Garmin GPS 45 displays its software version number on both the powerup and powerdown screens. However, both of these screens appear only for a short time, so you have to look quickly.

The powerup screen is as follows:

```
{Turning World}
Welcome to the
  GARMIN
  GPS 45
Software Ver 2.40
Copyright 1994-95
Garmin Corp
```

The powerdown screen is the same except that the line "Welcome to the" is replaced with the line "Turning off in n", where n is a three second countdown digit.

The version 2.40, shown above, is what my unit displays.

Hope this helps.

73, Claude  
K5DTN  
chead@exam2.dseg.ti.com

---

### 386. PicoPacket, anyone?

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)  
Date: Fri, 21 Jul 95 17:27:32 MET DST  
To: aprssig@tapr.org  
Message-ID: <9507211527.AA13654@sunrise.e-technik.uni-ulm.de>  
Rendered body type: text/plain

I am looking for hams who have bought a PicoPacket from Paccomm for exchange of experience.

73,  
Hermann, DF2DR

--  
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de  
Dept. of Electron Devices and Circuits |  
University of Ulm, | office: +49 731 502-6152  
D-89069 Ulm, Germany | FAX: +49 731 502-6155  
-----

Help fight leukemia - we're closing in on a killer!

---

### 387. Re: [APRSSIG:2411] PicoPacket, anyone?

From: BAILL@mail.syntron.com  
Date: Fri, 21 Jul 95 11:31:38 CST  
To: aprssig@tapr.org  
Message-ID: <9506218063.AA806351498@MAIL.SYNTRON.COM>  
Rendered body type: text/plain

>I am looking for hams who have bought a PicoPacket from Paccomm  
>for exchange of experience. Hermann, DF2DR

I had a bad experience with a "new" PicoPacket, ordered last week.  
This is the first item I purchased from Paccom. I had intended  
acquiring "all the options" with it. While on the phone, the sales  
lady told me:

1. The second serial port option is "still under engineering  
development".
2. The extra RAM option "isn't available yet", and she indicated  
the RAM was also being held up 'by engineering'.

From the entire conversation, I had a cold feeling I wasn't going to  
acquire the desired hardware any time soon.

I had a "technically savvy" packet user work with it, and found the  
unit transmits fine, but doesn't receive data (NOT a minor problem).  
I point out this is a "new" unit, "bad" right out of the box. Perhaps  
I am drawing conclusions "on a sample group of one", but I am not  
impressed with either the bad "new" unit, or the documentation. I  
have already identified four "errata" items with the manuals, that  
aren't documented on the inclosed errata sheet, and I have hardly  
starting reading the manual.

I will be returning the unit, and cancelling my order.

I get the sense this unit is so new, I am effectively a "beta tester  
who pays for the privilege of the early debug". I do not pay for the  
"privilege" to solve someone else's electronic/software problems (I  
get paid to do that at work). Also, I do not like options formally  
advertised that are "vaporware" (or "neverware").

I will not be doing any business with Paccom until I get many, many  
good (future) "good reports" on the PicoPacket. I currently don't  
trust either their hardware, or their advertisements.

I hope this will be helpful to you, and others, sir. Perhaps someone  
on the SIG will "correct my wrong impressions about Paccom" for me.

73's

|=====|

|  |                                   |  |                                     |
|--|-----------------------------------|--|-------------------------------------|
|  | Mr. Lance Bailey                  |  | Ham Radio: KC5KRE, often lurking on |
|  | Snail Mail: SYNTRON, Incorporated |  | COMPAQ Rptr @ 444.45MHz.            |
|  | 17200 Park Row, #341              |  | -----                               |
|  | Houston, TX 77084-4925            |  | Coordinates suitable for launching  |
|  | Cyber Mail: baill@syntron.com     |  | your TLAM-N Cruise Missile strike   |
|  | lbailey@hti.net                   |  | Lat. : 29 deg 47.41 N.              |
|  | Ph: 713-647-7341                  |  | Long.: 095 deg 40.90 W.             |
|  | Fax: 713-647-7341                 |  | UTM: 15R 0251784 3284729            |
|  | =====                             |  | =====                               |

### 388. RE: PicoPacket anyone?

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
 Date: Fri, 21 Jul 95 13:01:21 EDT  
 To: aprssig@tapr.org  
 Message-ID: <CMM-RU.1.4.806346081.ksproul@hardees.rutgers.edu>  
 Rendered body type: text/plain

In defense of the Pico-Packet and Paccomm

Many of us (I am very guilty of this too) have been putting a LOT of pressure on Paccomm to get this unit at ASAP. They are being pressured an extremely lot by the Balloon people who see this unit as the best thing since sliced bread.

I have about 6 to 8 Tiny 2's, several models, and have NEVER had any problems with them, I have a Handi-Packet which we currently use for balloon work, and other than the Nicad going bad, have not had any problems with it either. (it was a few years old when the nicad went bad)..

I really like my DSP-2232 from AEA, but for the 'dedicated' stuff such as APRS and tracking, I find the Tiny-2 and other Paccomm units to be the best!

Paccomm has also added many features for 'small' groups, i.e. the second serial port and extra RAM.. They should get great praise for helping the hams as much as they do.

Keith Sproul

|                                       |                         |
|---------------------------------------|-------------------------|
| Keith Sproul                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work       |
| http://www-ns.rutgers.edu/~ksproul/   | 908 821-4828 Home       |

### 389. Re: [APRSSIG:2412] Re: PicoPacket, anyone?

From: BAILL@mail.syntron.com  
 Date: Fri, 21 Jul 95 12:11:27 CST  
 To: aprssig@tapr.org  
 Message-ID: <9506218063.AA806353887@MAIL.SYNTRON.COM>  
 Rendered body type: text/plain

I also need to point out, the PicoPacket listed below is  
 serial number P00022 (i.e. unit 22).

\_\_\_\_\_  
 Subject: [APRSSIG:2412] Re: PicoPacket, anyone?  
 Author: aprssig@tapr.org at INTERNET\_MAIL  
 Date: 7/21/95 11:50 AM

>I am looking for hams who have bought a PicoPacket from Paccomm  
 >for exchange of experience. Hermann, DF2DR

I had a bad experience with a "new" PicoPacket, ordered last week.  
 This is the first item I purchased from Paccomm. I had intended  
 acquiring "all the options" with it. While on the phone, the sales  
 lady told me:

1. The second serial port option is "still under engineering development".
2. The extra RAM option "isn't available yet", and she indicated the RAM was also being held up 'by engineering'.

From the entire conversation, I had a cold feeling I wasn't going to acquire the desired hardware any time soon.

I had a "technically savvy" packet user work with it, and found the unit transmits fine, but doesn't receive data (NOT a minor problem).

I point out this is a "new" unit, "bad" right out of the box. Perhaps I am drawing conclusions "on a sample group of one", but I am not impressed with either the bad "new" unit, or the documentation. I have already identified four "errata" items with the manuals, that aren't documented on the inclosed errata sheet, and I have hardly starting reading the manual.

I will be returning the unit, and cancelling my order.

I get the sense this unit is so new, I am effectively a "beta tester who pays for the priveledge of the early debug". I do not pay for the "priveledge" to solve someone else's electronic/software problems (I get paid to do that at work). Also, I do not like options formally advertised that are "vaporware" (or "neverware").

I will not be doing any business with Paccom until I get many, many good (future) "good reports" on the PicoPacket. I currently don't trust either their hardware, or their advertisements.

I hope this will be helpfull to you, and others, sir. Perhaps someone on the SIG will "correct my wrong impressions about Paccom" for me.

73's

```
|=====|
|      Mr. Lance Bailey      | Ham Radio: KC5KRE, often lurking on|
| Snail Mail: SYNTRON, Incorporated | COMPAQ Rptr @ 444.45MHz. |
|      17200 Park Row, #341      |-----|
|      Houston, TX 77084-4925    | Coordinates suitable for launching |
| Cyber Mail: baill@synttron.com   | your TLAM-N Cruise Missile strike |
|      lbailey@hti.net           | Lat. : 29 deg 47.41 N. |
|      Ph: 713-647-7341          | Long.: 095 deg 40.90 W. |
|      Fax: 713-647-7341         | UTM: 15R 0251784 3284729 |
|=====|
```

---

### 390. Re: [APRSSIG:2413] RE: PicoPacket anyone?

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Fri, 21 Jul 1995 12:41:04 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507211741.MAA06750@solar.cs.tamu.edu>  
Rendered body type: text/plain

As one who IS testing the Pico (and paying for it: My application needed the hardware NOW) I'm quite happy with it. I've not found any problems out of the box, and it was used on the last SAREX mission between real work applications for both APRS and a real QSO.

I've admittedly not gone thru the book (yet, I need to) in detail, but typos ina new document are not hard to believe.

It actually sounds like you were given a realistic or even pessimistic view of the product when you ordered, yet you still elected to. I have to agree with Keith. PacComm's gone a long ways to support Hams in general and the APRS hardware in particular.

I can pick on a few other manufacturers, including one that's real popular here, but whose harware gave me fits a couple of years ago. I doubt I'll ever go back to them. PacComm, on the other hand, has always supported me when I've had troubles or needed something different.

73, gerry

--

Gerry Creager N5JXS                   \* SAREX Co-Investigator  
gerry@cs.tamu.edu                   \* A little radio that lets kids talk  
                                     \* to astronauts, and smile

\*\*\*\*\*

---

### 391. un-subscribe

From: "HUGHES, PATRICK M." <HUGHES1@AMGDAL.HCC.COM>  
Date: 21 Jul 1995 14:33:14 GMT  
To: aprssig@tapr.org  
Message-ID: <AMGDAL.HUGHES1.224333140095202FAMGDAL@HCC.COM>  
Rendered body type: text/plain

un-subscribe

---

### 392. [APRSSIG:2407] GARMIN GPS 45

From: jeff.brenton@espi.com  
Date: Fri, 21 Jul 95 14:29:00 -0500  
To: aprssig@tapr.org  
Message-ID: <9507211429.0KCHD05@espi.com>  
Rendered body type: text/plain

If the Garmin 45 is like the 55, the first thing that is displayed when you power it up is the version number. My 55's an oldie - v1.05!

---

### 393. Re: [APRSSIG:2413] RE: PicoPacket anyone?

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)  
Date: Fri, 21 Jul 95 22:31:39 MET DST  
To: aprssig@tapr.org  
Message-ID: <9507212031.AA14126@sunrise.e-technik.uni-ulm.de>  
Rendered body type: text/plain

Hello Keith,  
it looks that I was not the only one having a really bad experience with the PicoPacket. And yes, it might be that they were pressured into putting it out - put does that mean they have to advertise features which only exist in their imagination?

See, I am not posting my experiences (yet), because I hate to jump to conclusions. All I can say is that (a) my unit still does not work despite numerous hours of trouble shooting and (b) I got the big run-around from them without much real help.

Maybe it's the 'overseas' syndrome - I have not even received a manual yet.

I will switch to another manufacturer if they don't settle the situation real soon.

Best regards,  
Hermann

--

|                                        |  |                                |
|----------------------------------------|--|--------------------------------|
| Hermann Schumacher                     |  | hschu@ebs.e-technik.uni-ulm.de |
| Dept. of Electron Devices and Circuits |  |                                |
| University of Ulm,                     |  | office: +49 731 502-6152       |
| D-89069 Ulm, Germany                   |  | FAX: +49 731 502-6155          |

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Help fight leukemia - we're closing in on a killer!

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### 394. Re: [APRSSIG:2412] Re: PicoPacket, anyone?

From: quarry@q.continuum.net (Chip Griffin)  
Date: Fri, 21 Jul 1995 16:45:36 -0400  
To: aprssig@tapr.org  
Message-ID: <v01520d07ac35c09a66ae@[199.0.52.51]>  
Rendered body type: text/plain

> I will not be doing any business with Paccom until I get many, many  
> good (future) "good reports" on the PicoPacket. I currently don't  
> trust either their hardware, or their advertisements.  
>  
> I hope this will be helpfull to you, and others, sir. Perhaps someone  
> on the SIG will "correct my wrong impressions about Paccom" for me.

I think you are being a bit excessively oversensitive on the issue. They were up front with you on the delay with the options, which I understand are 3-4 weeks away. It seems clear they are undermanned for the project they are working on. You seem to expect a sleek finished project worthy of a glamorous spotlight. What ever happened to hams willing to work with equipment that is "a little rough on the edges"? Did you even give Paccomm a chance to service the item? Almost every company suffers an occaisional problem with a product, it is how they respond that makes the difference between whether I come back or not.

I personally am very excited about the prospects of using my battery powered, two serial port PicoPacket in about a month.

At least their attitude beats Kantronics, who makes a great slick little TNC but whose technical support borders very close on non-existent. (Don't get me wrong, I love my KPC-3 and KPC9612, but I have never gotten satisfaction in the many attempts at communicating with Kantronics, I have always had to rely on third party support to get questions answered.)

Chip Griffin - President of Thames River Apple Users Group  
System Operator of The Quarry (203-889-6427)  
-----+-----

quarry@q.continuum.net | N1MIE@n1okk.ct (packet)  
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)  
emmet2@aol.com |

[http://q.continuum.net/~quarry/quarry\\_home.html](http://q.continuum.net/~quarry/quarry_home.html)

---

### 395. Re: [APRSSIG:2413] RE: PicoPacket anyone?

From: quarry@q.continuum.net (Chip Griffin)  
Date: Fri, 21 Jul 1995 16:48:42 -0400  
To: aprssig@tapr.org  
Message-ID: <v01520d08ac35c2a5e178@199.0.52.51>  
Rendered body type: text/plain

>In defense of the Pico-Packet and Paccomm  
[...]  
>Many of us (I am very guilty of this too) have been putting a LOT of pressure  
>on Paccomm to get this unit at ASAP. They are being pressured an extremely  
>lot by the Balloon people who see this unit as the best thing since sliced  
>bread.  
[...]  
>Paccomm has also added many features for 'small' groups, i.e. the second  
>serial port and extra RAM.. They should get great praise for helping the  
>hams as much as they do.

Here here! A little patience goes a long way. Besides an unnamed source mentioned to me that their primary programmer walked after getting a superior offer from a much larger organization. It is hard to work fill in with part-time support ... cut them a little slack, eh!

Chip Griffin - President of Thames River Apple Users Group  
System Operator of The Quarry (203-889-6427)

-----  
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)  
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)  
emmet2@aol.com |

[http://q.continuum.net/~quarry/quarry\\_home.html](http://q.continuum.net/~quarry/quarry_home.html)

---

### 396. (U)CSE/SPD for fixed stations

From: Appleton <S=Appleton%S=Appleton%G=K%I=P%TEXACO@mcimail.com>  
Date: Fri, 21 Jul 95 16:19 EST  
To: APRSSIG <aprssig@tapr.org>  
Message-ID: <01950721211910/0004365529D41X4@MCIMAIL.COM>  
Rendered body type: text/plain

To: 95157013--P0

From: K.P. Appleton CPI Rumbai, Indonesia  
\_\_\_\_\_  
Phone -- CTN 8-46-42142 (Work); 8-46-43088 (Home)  
\_\_\_\_\_  
TEXNET 8-45-42142 (Work); 8-45-43088 (Home)  
Subject: (U)CSE/SPD for fixed stations

Bob, a couple of locals have purchased PK-12 modems and got with it the APRS software (6.6?) I told them how to put their pos in the MAIL beacons. Works OK now (there WAS as : in the 10th place before) except I notice a course and speed marked on the fixed station. The beacon is:

YB5QZ>MAIL: comment comment !0032.10N/10127.40E- 21-Jul Messages for xxxxxxxx

APRS picks up the date and puts a CSE of "2" so a direcion line appears from the "QTH" house icon. I thought that the ! indicated a fixed station and anything could come after the \$ (in this case a "-"). I have to have DR off or the house moves rapidly :-) Do I have something setup wrong or must I tell the station not to put numbers/date immediately after the pos.? .....Keith

>From Keith P. Appleton  
92221132--P0 or XKAPPL at X400 or EXPKPA at VMCP11  
Internet Address: SN=APPLETON%G=K%I=P%TEXACO@mcimail.com

---

### 397. Re: [APRSSIG:2419] Re: PicoPacket, anyone?

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)  
Date: Fri, 21 Jul 95 23:49:18 MET DST  
To: aprssig@tapr.org  
Message-ID: <9507212149.AA14322@sunrise.e-technik.uni-ulm.de>  
Rendered body type: text/plain

Chip,  
please excuse me, but do you think you can pass judgement on my motivations

the way you do?

I certainly did NOT expect a "bells and whistles" TNC - but a working, plain-vanilla one to begin with. Me and my staff (this was originally for a master's thesis being performed under my supervision) spent many hours working on this, being misled by statements Paccomm made, e.g. on the validity of loopback tests.

Chip, I have worked in research all my professional life. I hardly, if ever, deal with sleek products.

And on your remark on giving small companies a chance - I co-own one.

Best regards,  
Hermann

--  
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de  
Dept. of Electron Devices and Circuits |  
University of Ulm, | office: +49 731 502-6152  
D-89069 Ulm, Germany | FAX: +49 731 502-6155

-----  
Help fight leukemia - we're closing in on a killer!

---

### 398. PicoPacket - let's kill the flame war

From: hschu@sunrise.e-technik.uni-ulm.de (Hermann Schumacher)  
Date: Sat, 22 Jul 95 0:01:27 MET DST  
To: aprsig@tapr.org  
Cc: gwyn@paccomm.com  
Message-ID: <9507212201.AA14356@sunrise.e-technik.uni-ulm.de>  
Rendered body type: text/plain

Hello folks,  
seems like I hit a nerve with my plain request for experiences on the PicoPacket TNC, and certainly with my unfortunate "leak" of a personal message to this list, for which I apologized already.

The last thing I wanted to do was start a flame war or anything resembling it.

The last email message I received from Gwyn makes me more optimistic that we can settle this issue in a civilized matter, and I hope that we can close the files on this in the same way.

Let me set a few things straight in public:

1. I had a bad experience with a certain TNC - I never questioned the quality of Paccomm's product line.
2. I did NOT expect a "sleek, all-bells-and-whistles-attached" TNC. In fact, I knew it was a new product.
3. The reason for the disagreements between Paccomm and myself were of a different nature (even though technical) and can (and hopefully will be) settled between us.

So, let us get on with more exciting business ...

Best regards from Ulm,  
Hermann

--  
Hermann Schumacher | hschu@ebs.e-technik.uni-ulm.de  
Dept. of Electron Devices and Circuits |  
University of Ulm, | office: +49 731 502-6152  
D-89069 Ulm, Germany | FAX: +49 731 502-6155

-----  
Help fight leukemia - we're closing in on a killer!

---

### 399. STS-70 Ham Gear?

From: calldrin@sierra.net (Chuck Alldrin)  
Date: Fri, 21 Jul 1995 15:26:18 -0700  
To: aprsig@tapr.org  
Message-ID: <199507212226.AA06044@diamond.sierra.net>  
Rendered body type: text/plain

I have a question.

What type and brand of Ham radio gear is being used on the STS-70 mission?

It seems that everyone talks about the results of contacts but I've seen the

listing of the equipment that is on board.

Thanks for any help :-)

Chuck KN6JS

callldrin@sierra.net

---

#### 400. Re: [APRSSIG:2405] help with KPC3 V 6.0

From: rkramer@vaxxine.com (Ronald Kramer)  
Date: Fri, 21 Jul 1995 18:57:46 -0400  
To: aprssig@tapr.org  
Message-ID: <9507212257.AA00531@alpha.vaxxine.com>  
Rendered body type: text/plain

>I would like to set up a stand alone tracker. Can anyone assist me  
>in the set up of the KPC 3. How do I configure the NMEA on the  
>garmin 45 to transmit APRS format stuff. There is no computer,  
>just the kpc and garmin.  
>Thanks in advance  
>Mike KD4EMI@AOL.COM

Mike here is how I have my standalone tracker set up

```
AB 4800
B E 0
BLT 1 EVERY 00:01:00 START AT 00:00:00 ( EVEN MINUTE SAT TIMER)
BLT 2 EVERY 00:01:00 START AT 00:00:30 ( 30 SECONDS AFTER THE MINUTE SAT TIMER)
BLT 3 EVERY 00:00:00 ( NOT USED)
BLT 4 EVERY 00:00:00 ( NOT USED)
CTEXT MOBILE APRS NO OPERATOR PRESENT PLEASE DISCONNECT
GPS 1 $GPGGA (LAT LONG ALT GOOD BAD #SAT'S NOICE LEVEL CHECKSUM)
GPS 2 $GPGGA "
GPS 3 $GPGGA "
GPS 4 $GPGGA "
HB 1200
INTERFACE GPS ( SET THIS LAST THEN TURN KPC3 OFF THEN ON FOR GPS MODE)
LT 1 (ARRIVED AT FROM GPS INFO)
LT 2 "
LT 3 "
LT 4 "
LTP 1 APRS VIA WIDE,WIDE (EVEN MINUTE UNPROTO PATH FOR APRS)
LTP 2 APRS VIA RELAY,WIDE,WIDE (30 SEC AFTER MINUTE UNPROTO PATH FOR APRS)
LTP 3 APRS VIA RELAY,WIDE,GATE,GATE,WIDE (UNUSED)
LTP 4 (UNUSED)
MYCALL VE3MX-15
MYALIAS RELAY ( I SET MINE TO MOBILE-1 OR TURN DIGPEAT OFF)
MYNODE VE3MX-7
MYPBBS VE3MX-1
MYREMOTE VE3MX-6
RTEXT (YOUR PASSWORD STRING HERE)
UNPROTO APRS VIA RELAY,WIDE,WIDE
NUMNODES = 0
CMMSG DISC
HEADERLINE OFF
MCON OFF
PBBS 5
NEWMODE ON
NOMODE OFF
BKONDELL OFF
```

The rest are factory defaults I beleive.

Hope this helps you set up your KPC-3

Regards, Ron ... 73 de Ron  
Internet: rkramer@vaxxine.com (Ron Kramer)  
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

---

#### 401. Re: [APRSSIG:2411] PicoPacket, anyone?

From: rwf@mindspring.com (rwf)  
Date: Fri, 21 Jul 1995 19:48:21 -0400  
To: aprssig@tapr.org  
Message-ID: <199507212348.TAA17657@dylan.mindspring.com>  
Rendered body type: text/plain

>I am looking for hams who have bought a PicoPacket from Paccomm for exchange  
>of experience.

Hermann-



We (The Atlanta Ballonatics) are flying a Motorola Oncore GPS, A Pico Packet, and a 2 watt 440 TEKK radio on our 1200 gram balloon next Saturday, the 29th. The package has been built and tested and works well.

The TNC is such a new product, and we ("the balloon people") as well as others have pestered Paccomm a lot about bringing it to market. I have so far been impressed with the unit. It is tiny (2 ounces without case) and due to its weight (vs the KPC3), we are being allowed to fly this package along with the other experiments. The KPC3 was too heavy.

My only "gripe" is that, since the TEKK radio has no squelch, we won't be able to use receive on the balloon. Only a small price to pay, though. I understand the open squelch function (DCD option?) will be available before too long.

I will give a full report after the balloon mission.

73

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

---

#### 402. Re: [APRSSIG:2402] Garmin 45 ver 2.41

From: bottmgun@emi.net (Jay K. Jeffries)  
Date: Fri, 21 Jul 1995 20:34:00 -0400  
To: aprssig@tapr.org  
Message-ID: <199507220044.UAA03824@athens.emi.net>  
Rendered body type: text/plain

Steve,

I asked the question before but didn't get a straight answer. DOES THE GARMIN 45'S DATA PORT STILL PROVIDE GOOD DATA WHEN THE SCREEN BLANKS AT >99 KTS?

R/Jay

>On a side note, there has been alot of slamming the GPS 45 due to it's 99kts speed limit. I  
>agree if you wish to use it for aviation that's no good. However, it goes past 100 mph no  
>problem, so for most other uses the limit shouldn't present a problem.  
>

---

#### 403. Mapmaking using 100K info

From: DKAPLAN@netins.net (David Kaplan)  
Date: Fri, 21 Jul 1995 21:44:37 -0500  
To: aprssig@tapr.org  
Message-ID: <199507220244.VAA07399@dingus.n5lyt.datarace.com>  
Rendered body type: text/plain

Is Ken Swaggart on this SIG? I have some questions about CONV100  
Dave

---

#### 404. Garmin 45

From: bottmgun@emi.net (Jay K. Jeffries)  
Date: Fri, 21 Jul 1995 22:59:22 -0400  
To: aprssig@tapr.org  
Message-ID: <199507220310.XAA06536@athens.emi.net>  
Rendered body type: text/plain

Steve,

After re-reading my previous post once it was posted, I realize it was to blunt and directed at you when it was meant to be much softer and a restatement of a question. I apologize to you and the other members of the APRSSIG list-server.

R/Jay

---

#### 405. Re: [APRSSIG:2421] (U)CSE/SPD for fixed stations

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Fri, 21 Jul 1995 23:23:15 -0400 (EDT)  
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.950721231511.27907B-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Fri, 21 Jul 1995, Appleton wrote:

> ..... I told them how to put their pos in the MAIL beacons. Works OK  
> now (there WAS as : in the 10th place before) except I notice a course and  
> speed marked on the fixed station. The beacon is:  
>  
> YB5QZ>MAIL: comment comment !0032.10N/10127.40E- 21-Jul Messages for xxxxxxxx  
^

APR REPLY: Gotcha on the : hi hi. Yes, there are a few things that APRS will parse incorrectly. and they are a \*,:,-, or \_ in the 10th position of a BEACON and also the 4th character of a POSIT comment field: You cannot have a / or a 1 there. And now you have uncovered one I didnt expect and it is the - symbol there. If that station just slips the 21 to the left one place, I think it will be fine. If you move it one space to the right, you put a 1 there, and that is the 3rd of 3 possible characters that wont work either, hi hi. Move it two places to the right and all should be fine too.

---

#### 406. Re: [APRSSIG:2412] Re: PicoPacket, anyone?

From: Dwight Smith <dpsmith@westnet.com>  
Date: Fri, 21 Jul 1995 23:32:46 -0400 (EDT)  
To: BAILL@mail.syntron.com  
Cc: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950721232435.24987I-100000@westnet.westnet.com>  
Rendered body type: text/plain

I have no experience with the PicoPacket, BUT...  
I would not use \_ANY\_ other brand of tnc for the nodes I have set up.  
I have been using the Tiny-2 and the Tiny-2 mark-2. Both are very reliable and the support from Paccomm is top notch.  
There are always infintile failures. IMHO it is not fair to condemn PacComm for this one experience. I am sure Gwyn would like to keep you as a coustomer. Talk to him.  
Dwight P. Smith

---

#### 407. Re: [APRSSIG:2346] maps

From: "Matthew Carpenter" <mattc@arn.net>  
Date: Sat, 22 Jul 1995 07:44:25 +0000  
To: aprssig@tapr.org  
Message-ID: <199507221256.HAA15246@arnet.arn.net>  
Rendered body type: text/plain

We sure could use a map of the Amarillo Texas area! APRS is GROWING here and we have found out that the maps the come in the APRS package are not alltogether correct...anyway..any help would be great!

---

#### 408. HELP! APRS Locks up my Machine!

From: Tom Cain <tcain@cybernetics.net>  
Date: Sat, 22 Jul 1995 11:46:45 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950722112921.21518C-100000@server1>  
Rendered body type: text/plain

Hey All-

Well, I've been lurking here for some time and fiddling around with various versions of APRS of the 6.9 and 7 vintage and the only thing I can achieve is consistency! Consistent lock ups that is!

If I run APRS and don't tell it to look for any serial ports, it runs fine. Kinda useless that way though! If I enable a serial port for anything, as soon as I attempt to move the cursor from the keyboard, the system locks up. The cursor never moves, but, I get:  
Internal Stack Overflow  
System Halted

Then, obviously, its time for the big red switch. For background, my system is a 386-40 with a 1990 AMI bios. I normally run QEMM, Speedrive, SoundBlaster, and a scsi cd-rom driver. So, first thing to try was unload all this stuff and try APRS in a totally vanilla set up. Same result. I've tried to run under windoze 3.1, same result. The only thing I haven't tried is yanking all the add-ons out of the box; really don't want to do that just to run APRS. I have included my io map at the end of this message in case somebody can see something I may have missed.

I've been hacking at this kinda of stuff for lots of years now and normally don't have any trouble making things work. APRS has me stumped though...

Anybody have any ideas??? Bob B, I'd love to register your program if I can get it to run in a reasonable manner. HELP!

Thanks & 73,  
Tom  
WB80UE

-----  
ATI VGAWonder GT  
video ram A000-BFFF  
video bios C000-C7FF  
ports 2E0-2E8  
mouse 23C-23F irq 2  
  
COM1:  
ports 3F8-3FF irq 4  
COM2:  
ports 2F8-2FF irq 3  
  
Parallel  
ports 3BC-  
  
SMC Ethercard PLUS Elite16  
ports 280- irq 10 bios D000-  
  
SoundBlaster 16 SCSI-2  
ports 220- irq 5 dma 5  
ports 330-  
ports 340 irq 11 - scsi

---

#### 409. Re: [APRSSIG:2429] Garmin 45

From: crawford@haven.uniserve.com  
Date: Sat, 22 Jul 95 08:54:58 +0800  
To: aprssig@tapr.org  
Message-ID: <9507221556.AA0158@pm2-46.TVS.NET>  
Rendered body type: text/plain

R/Jay

>Steve,  
>After re-reading my previous post once it was posted, I realize it was to  
>blunt and directed at you when it was meant to be much softer and a  
>restatement of a question. I apologize to you and the other members of the  
>APRSSIG list-server.

No problem, but if it was me you were referring too, I forget the response so obviously I wan't offended ;-)

Steve Crawford  
crawford@uniserve.com  
Amateur Radio Packet: VE7IIF@VE7KIT.#VANC.BC.CAN.NA  
Ph/Fax: (604) 826-6295

---

#### 410. Re: [APRSSIG:2427] Re: Garmin 45 ver 2.41

From: crawford@haven.uniserve.com  
Date: Sat, 22 Jul 95 08:57:16 +0800  
To: aprssig@tapr.org  
Message-ID: <9507221559.AA0159@pm2-46.TVS.NET>  
Rendered body type: text/plain

Hi R/Jay:

>I asked the question before but didn't get a straight answer. DOES THE  
>GARMIN 45'S DATA PORT STILL PROVIDE GOOD DATA WHEN THE SCREEN BLANKS AT >99 KTS?

Now I know the letter you were apologizing for, read the apology first ;-), Still not a problem though.

I don't know the answer, I was under the impression the screen goes blank but never saw any mention about the data port, I'd be interested in knowing the answer myself.

Steve Crawford  
crawford@uniserve.com  
Amateur Radio Packet: VE7IIF@VE7KIT.#VANC.BC.CAN.NA

## 411. APRS METSCAT, reflecting on a few facts

From: Ralph Wallio <WALLIO@dsml.dsmnet.com>  
Date: Sat, 22 Jul 1995 12:59:59 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <950722125959.5d72@dsml.dsmnet.com>  
Rendered body type: text/plain  
TO : aprssig@tapr.org  
FROM : Ralph Wallio, W0RPK wallio@dsml.dsmnet.com  
SUBJECT: APRS METSCAT, reflecting on a few facts  
DATE : 22 Jul 95

Perhaps the following will help with continuing discussions and planning for APRS METSCAT operations during the 1995 Perseids meteor shower:

### 1) 1995 Perseids schedule

The 1995 Perseids meteor shower will peak on 13 Aug at 00:44 UTC. The duration above 25% of maximum is 4.6 days, that is, 2.3 days either side of the peak. (Information from METEOR SCATTER PREDICTION PROGRAM by Michael R. Owen, W9IP/2)

### 2) Meteor shower path probabilities vary significantly and are are predictable with computer programming

The probabilities of communication via meteor shower bursts in a given direction change with time of day. These probabilities are predictable using computer programs such as cited above. As an example, during the 1995 Perseids, my path from Iowa to the northeast and southwest will peak at 16:30 UTC daily while my path to the northwest and southeast will peak at 07:30 UTC daily. These peaks are fairly broad with rates staying above 90% of peak for roughly +/- two hours.

### 3) Maximum path length

Maximum path length is achieved when radiation and reception is at 0-degrees elevation, right on the horizon. The meteor burst region is 90-110km, therefore the maximum range is 2000km (1200 miles). Draw a 1200 mile radius range circle on a map centered on your location to estimate your total METSCAT operating area.

### 4) A METSCAT path between two stations is a connection between two footprints

When a given station's radiation is reflected or re-radiated by a meteor trail, the resulting signal falls in a small area called the receive footprint. A typical footprint at longer ranges is an ellipsoid 30 by 15 miles with the longer dimension in line with the radiant path. When you receive a signal burst from a given station, your neighbor 50 miles distant probably will not, nor will anybody else outside of the footprint.

### 5) Commercial and military METSCAT station configurations using 40-50MHz

Master stations that constantly transmit probing packets typically use 500-1000W output and 5-element Yagis. Remote stations that listen for probing packets, and transmit only in response, typically use 300W output and dipoles or 2-element Yagis.

Antennas are usually installed horizontally and often tilted 15-25 degrees to optimize for a range of 250-500 miles. For ranges greater than 250 miles, transmit and receive stations are using a meteor region roughly half way between. For ranges shorter than 250 miles, the stations are using a meteor region directly overhead of the remote dipole equipped station or a region 'behind' one of the stations (backscatter mode).

The data modulation method is typically bi-phase PSK, which yields an improvement of roughly 10dB over AFSK on FM, and they use a forward error correcting protocol which is optimized for the medium.

- 6) Sporadic (random) meteor burst rates vary significantly with time of day and season of year

The highest rate is in July, the lowest in February. The highest time of day is 4:00-8:00 AM local, the lowest is 4:00-8:00 PM local. Commercial and military links run 24-hours per day, year in and year out, using sporadic meteor bursts. Meteor showers briefly and slightly increase their throughput.

APRS METSCAT operations during the 1995 Perseids should be scheduled inside the 25% of maximum window (see #1 above) and specific attempts should be chosen and scheduled for daily path maximums (see #2 above).

Schedules with specific stations should be limited to a maximum of 1200 miles (see #3 above). It may help to have another station in the same locale with which to compare notes with but remember the footprint (see #4 above).

Operations on 2m using AX.25 and AFSK on FM will significantly reduce probabilities of success. Run as much output power and antenna gain as can be mustered (see #5 above).

Finally, at this time of year when we are near the annual maximum for sporadic bursts, operations shouldn't be limited to the Perseids shower. If personal schedules limit participation during the shower, find a partner and use summer time early morning maximums. The chances of success will be almost as good as during the shower (see #6 above).

Regards, Ralph Wallio, W0RPK

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## 412. Persieds METEOR shower questions

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sat, 22 Jul 1995 15:47:41 -0400 (EDT)  
To: aprsig@tapr.org  
Message-ID: <Pine.SUN.3.91.950722145210.28928E-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Ralph Wallio's message about the Persieds answered some questions and raised others. I was gonna respond to him directly, but thought that the more people involved in the planning, the better...

FIRST, make sure all HF>vhf GATEWAYS are shut down from 11 AUG to 15 AUG! Everyone on this list should start posting an APRS BLN in their area to be sure that everyone has the word. If anyone objects to this, let us know...

Ralph, Your recent message answered a BIG question for me, and that was the QRM issue. I have read a lot about MScat in the distant past, but yours is the first mention of the VERY PRECISE Receive circle! From this bit of information I infer these conclusions: ????

1) Dont worry about XMT QRM. As long as transmitter stations are separated by about 30 miles, no one receiver is likely to hear any two or more transmitters at any instant. Even if they are ALL transmitting 100% of the time on the same frequency! ????

2) I dont believe it, hi hi If a single transmitter is trying to communicate with a station about 1000 miles away, lets say that the beam width of his antenna is such that it would cover a 500 x 500 mile at that distance. Now if any given meteor only spot beams its energy to a 25 mile square area, then for every 400 meteors that ARE in the halfway volume of space, only 1 will give a ping at the receiver. This doesnt add up when you compare the average number of meteor events in a given volume of the sky, and the reported success rates. What am I missing?

Concerning the BIG EVENT.... you are recommending stations pair up and try to make manual one-on-one QSO's. I am leaning toward a big nationwide (hands-off) free-for-all just to count packets...

Are the two compatible?

Should the point-to-point guys pair up and go to a different freq?

The MS mode in the soon APRS72 is optimized only for the free-for-all experiment. Ralph, do you feel this is the BEST algorithm for the free-for-all attempt? Here is the logic:

- 1) everyone listens as usual

- 2) The very short MS packet is just the sending call and gridsquare  
WB4APR>FM19SX:
- 3) Each station in MS mode transmits a group of 10 of those packets  
(2.5 secs) randomly within his area's 15 second window.
- 4) The country is broken up into 4 regions, NE, SE, SW, NW and everyone  
in that region transmits in the same 15 second window (clockwise  
beginning with the NE at 00.

About the only thing I am not sure of is item 3. How often to randomly transmit so that we do not QRM each other at any given instantaneous receive site.. Right now, there is also a 50-50 chance that you will even transmit at all in your given window. This theoretically provides about an 8% overall duty cycle for any given transmitter. Or as many as 12 different transmitters can share the same TRANSMIT foot print.

I see about 50 NE stations active at any one time, so with say, half of them playing in this event, I thought these statistics were about right.

BUT IF WHAT RALPH SAYS ABOUT THE VERY SPECIFIC RECEIVE FOOTPRINT IS TRUE, then it seems that it would be safe to increase everyone's transmit duty cycle significantly. We are running out of time, and I want to release version 7.2 in plenty of time... I guess I will make the duty cycle a variable, but still it needs a default value for us appliance operators.

I will be operating the 40 foot USNA dish at 600 watts from Maryland. But it only goes down to a 10 degree elevation angle. and the beam will be 10 degrees narrow. WHO do I point it at??? Ralph, can you compute the best receive foot print range, so that we can optimize the footprint over a midwest pocket of activity?

I think I will add the 3 chars to the MS packet. The first will indicate BEAM heading and the second will indicate and gain, and the third will indicate POWER. On receive, then the symbol will PLOT a wedge proportional to heading and gain! Not only will this help those that are RECEIVING the packets, but it will help LOCAL transmitters coordinate their beam headings to different areas!

---

## 413. Meteor Shower APRS test

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sat, 22 Jul 1995 16:21:46 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950722161058.29019A-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

Well, I used the MAPS-PLOTS-RANGE and looked out to about the 1000 mile range from Maryland and I see two areas of known APRS activity...

The midwest (IOWA, Illinois and MO)  
the Southeast (Ga, SC and FLA)

My plan is to use the 40 foot Academy dish (limited to minimum 10 degree elevation) to operate 500 watts on 2m (17 db antenna gain) for a total ERP of over 20,000 watts. But since the beamwidth is about 10 degrees, this will only cover about one state at that range... (High gain is actually a detriment to MS comms because you are narrowing the amount of SKY you can use)

Although my objective is still just to have everyone just radiating in all directions so everyone plays, if anyone is in these footprints and wants to try a two way message, let me know. I will probably operate unattended and will NOT be moving the dish frequently if at all.

Again, HIGH power is MORE important than antenna gain. Anything over a medium sized BEAM is actually a detriment.

---

## 414. CHANGE IN 71B AND C

From: wnolle@ro.com (William Nolle)  
Date: Sat, 22 Jul 1995 15:25:18  
To: aprssig@tapr.org  
Message-ID: <199507222031.PAA27070@sh1.ro.com>  
Rendered body type: text/plain

Bob (Or anyone else!. Why in version 71b and c did the digi's turn white instead of the green like they used to be. Now don't everyone send me messages if this has already been discussed. I have been out of pocket here for a while since my whole system (Including my WX station) got hit by lightning. But the good part is there will be a new 90Mhz pentium on the doorstep Monday Hi. Also this may or may not be an upcoming bug, but yesterday after running 71c unattended for 5 or 6 hours then hitting the spacebar since i use the Screensaver, all i seen was

Bob's Famous ERROR 6 (Return to dos)

Bill KE4EER  
wnolle@ro.com

---

#### 415. Re: [APRSSIG:2439] CHANGE IN 71B AND C

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sat, 22 Jul 1995 17:22:19 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950722171709.29019F@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

On Sat, 22 Jul 1995, William Nolle wrote:

> Bob (Or anyone else!. Why in version 71b and c did the digi's turn white  
> instead of the green like they used to be.

APR REPLY: See the NEWNOTES.TXT which always explains the differences in  
each new version. Now APRS only turns WIDE-RELAY digis green. See  
DIGIS.txt

WIDE-RELAY digipeaters are those that have both a WIDE and a RELAY alias.  
This solves the delima of most mobiles as to what path to use for  
universal coverage. Mobiles can then use a path of APRS VIA RELAY,WIDE  
to be able to be seen either NEAR the digi, or NEAR a remote home station.

I turn these green, so that MOBILES can quickly see if RELAY,WIDE  
digipeating is useable in an area.

---

#### 416. Colour monitor

From: "Michael Turner" <mturner@fox.nstn.ca>  
Date: Sat, 22 Jul 1995 20:12:36 -0400  
To: APRSSIG@tapr.org  
Message-ID: <199507230012.VAA12236@Fox.NSTN.Ca>  
Rendered body type: text/plain

I am hoping to go on the road with a GPS unit and monochrome laptop  
computer. I note that there is a lot of emphasis on colour on the APRS  
screen. Will I be at a disadvantage?

---

#### 417. Re: [APRSSIG:2432] Re: maps

From: rwf@mindspring.com (rwf)  
Date: Sat, 22 Jul 1995 23:13:29 -0400  
To: aprssig@tapr.org  
Message-ID: <199507230313.XAA19231@dylan.mindspring.com>  
Rendered body type: text/plain

>We sure could use a map of the Amarillo Texas area! APRS is GROWING  
>here and we have found out that the maps the come in the APRS package  
>are not alltogether correct...anyway..any help would be great!  
>

Matthew- With the new map making program and the USGS data on the Internet,  
it is pretty easy to make new maps yourself. The maps are very good. Take  
a look at GANWEST.MAP and GA-ATL.MAP and see for yourself.

Read Bob's "readme" files on making maps and then look at the USGS program  
and make a stab at it.

If you get a nice one, post it somewhere for us all. N4QEA has made some  
nice ones of Eastern Tennessee.

If you need help, I'll bet some of the mapmakers here will be glad to lend  
some advice!

Good luck

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA  
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info  
FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info  
ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

#### 418. Re: [APRSSIG:2438] Meteor Shower APRS test

From: rwf@mindspring.com (rwf)  
Date: Sat, 22 Jul 1995 23:13:35 -0400  
To: aprssig@tapr.org  
Message-ID: <199507230313.XAA19284@dylan.mindspring.com>  
Rendered body type: text/plain

Professor Robert Bruninga :) sez:

I will probably operate un  
>attended and will NOT be moving the dish frequently if at all.  
>

I have seen your dish and wouldn't want to move that one too much, either!  
Especially while looking through your little cardboard porthole viewing  
device. That it a honker dish! Bob- I will digitize your QSL card for  
the web page.

PS when you gonna tell 'em?

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA  
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info  
FTP: [ftp.mindspring.com/users/rwf](ftp://ftp.mindspring.com/users/rwf) for ATV, GPS, APRS info  
ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

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#### 419. Re: [APRSSIG:2441] Colour monitor

From: rwf@mindspring.com (rwf)  
Date: Sat, 22 Jul 1995 23:13:39 -0400  
To: aprssig@tapr.org  
Message-ID: <199507230313.XAA19324@dylan.mindspring.com>  
Rendered body type: text/plain

>I am hoping to go on the road with a GPS unit and monochrome laptop  
>computer. I note that there is a lot of emphasis on colour on the APRS  
>screen. Will I be at a disadvantage?  
>

I have been using a mono laptop a lot and when I hooked up a color monitor  
for a hamfest demo last week, I was amazed at what I had forgotten about how  
useful the color is! Especially on the new 32 mile maps.

I wanna get a color laptop... wahhhhhh

You can still use the program fine, though. Don't worry. I love mobile  
gps. My mobile is \*always\* active on gps. Just ask old KE4EER. I beacon  
thru 4 digis to give the folks in Huntsville AL something moving to look at.

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA  
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info  
FTP: [ftp.mindspring.com/users/rwf](ftp://ftp.mindspring.com/users/rwf) for ATV, GPS, APRS info  
ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

---

#### 420. APRS Activity in the SouthEast

From: rwf@mindspring.com (rwf)  
Date: Sat, 22 Jul 1995 23:27:32 -0400  
To: aprssig@tapr.org  
Message-ID: <199507230327.XAA22073@dylan.mindspring.com>  
Rendered body type: text/plain

I know the configuration of APRS up in Bob-Land, but no one ever talks  
about how APRS is spreading in other areas.

Everyone- tell us about the activity locally. Here's mine.

I live in Atlanta, GA Several of us have been playing APRS on various freqs



(not 5.79) for 2 years or more. One day, W7LUS, Perte who is about 80 miles NE of me saw me playing APRS on 145.07. He sent a msg suggesting I move to 5.79. There I found a digi for APRS and about 5 stations. The digi is in Jasper GA (N Central GA 50 miles S of Tennessee). It is about 2000 ft AAT. I think it is a Motorola Micor.

That was 3 months ago. Now there is a new digi North of there, in Ellijay, GA. It covers a little into N Carolina and Tennessee as well as some holes that Jasper does not cover. The digis are only 13 miles apart, but terrain splits them up pretty much. I think this is a Motorola Micor as well.

We have N4NEQ-2 in Atlanta, now. This is the first WIDE-RELAY digi in the Southeast that I know of. It covers N Metro Atlanta. Right now is only 250 ft AAT, but is moving to a different tower. It is a Ramsey Radio (NOT for long- soon to be a Motorola Mitrek)

NW GA is Dead (except for some scatter from Ellijay). But we expect a WIDE-RELAY in Dalton very soon. It will cover from the N4NEQ-2 area up through Chattanooga, TN.

NE GA is covered by W7LUS and a digi up at the EOC in Habersham County. Not sure of the actual coverage area, and I heard that Peter is working on something high.

There is a Digi in Columbus, GA, N4TKT-2. When the band opens, it talks to one in Milton, FL.

In Alabama, just across the State line, they have a digi on the highest mtn in Alabama, Mt Cheaha. It covers West GA and East AL (including Anniston and some of Birmingham, I think).

Way up in Northern Alabama, is the famous KE4EER-5. His WIDE digi is always seen here in GA when it beacons. I look forward to using it next month for the Huntsville Hamfest.

Not sure what they have in LA (Lower Alabama).

I had heard of some activity in Athens, GA on 145.07 or a similar freq. A friend ou mine, N4YCI has put the word on them about the growing 145.79 net. Yesterday, I saw WB4VNT digi in Athens beaconing on 5.79! Once he gets his alias set and the correct format in his beacon, he'll cover Eastern Georgia.

All of these Digis can hear each other, working together to form the largest APRS network I know of besides Bob's.

I will post a screen capture of our little net on my web page soon.

Well, folks- that's it. Lets see what the rest of y'all are doing!

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

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## 421. Re: [APRSSIG:2433] HELP! APRS Locks up my Machine!

From: sneaker@mindspring.com (Chris Jernigan)

Date: Sat, 22 Jul 1995 23:48:41 -0400

To: aprssig@tapr.org

Message-ID: <199507230349.XAA26600@dylan.mindspring.com>

Rendered body type: text/plain

>If I run APRS and don't tell it to look for any serial ports, it runs fine.

>Kinda useless that way though! If I enable a serial port for anything,

>as soon as I attempt to move the cursor from the keyboard, the system locks

>up. The cursor never moves, but, I get:

>Internal Stack Overflow

>System Halted

--

I personally would strip all of the cards out of the system except for

Serial card.. multi i/o card whatever

then if it works.. put the cards back in to find the offending irq or card prob

**422. Re: □APRSSIG:2350! Quincy Illinois Map**

From: "BCROCKET" <HARRIS.BCROCKET@IC1D.HARRIS.COM>  
 Date: 21 Jul 1995 18:18:18 EST  
 To: aprssig@tapr.org  
 Message-ID: <QCY3.BCROCKET.701220010095204FQCY3@IC1D.HARRIS.COM>  
 Rendered body type: text/plain

Yes I'm still here, well kind of! We are on vacation at the Jersey  
 Shore and my wife did not see me sneak the notebook into the car. As  
 long as I keep things short maybe I can stay out of the doghouse  
 :-) !! ..... I appreciate your help with the map!!

Bob

```
=====
Bob Crockett           | Phone: 217-221-7717
Broadcast Division     | Fax:   217-222-8725
Harris Corporation     |
P.O. Box 4290          | Amateur Call: N9KUT
Quincy, Illinois 62305-4290 | Internet: bcrocket@harris.com
=====
```

Reply Separator

Subject: □APRSSIG:2350! Quincy Illinois Map  
 Author: HARRIS.APRSISIG at Harris  
 Date: 7/18/95 1:20 PM

Someone asked for a map of Quincy Illinois, but I cant find his message.

I extracted a 32 mile map for the area, but it needs about another hours  
 worth of work. If that person is still here, then I will continue...

**423. Re: [APRSSIG:2441] Colour monitor**

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
 Date: Sun, 23 Jul 1995 08:18:40 -0400 (EDT)  
 To: aprssig@tapr.org  
 Message-ID: <Pine.SUN.3.91.950723081615.29841A-100000@greatlakes.nadn.navy.mil>  
 Rendered body type: text/plain

On Sat, 22 Jul 1995, Michael Turner wrote:

> I am hoping to go on the road with a GPS unit and monochrome laptop  
 > computer. I note that there is a lot of emphasis on colour on the APRS  
 > screen. Will I be at a disadvantage?

APR REPLY: Yes, but you can minimize it by using the MAPS-FEATURES  
 command to remove rivers and county lines. This leaves just roads on the  
 map. Take a highway road map too!

**424. Re: [APRSSIG:2442] Re: maps**

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
 Date: Sun, 23 Jul 1995 08:23:08 -0400 (EDT)  
 To: aprssig@tapr.org  
 Message-ID: <Pine.SUN.3.91.950723082111.29841B@greatlakes.nadn.navy.mil>  
 Rendered body type: text/plain

On Sat, 22 Jul 1995, someone wrote:

>We sure could use a map of the Amarillo Texas area! APRS is GROWING  
 >here and we have found out that the maps the come in the APRS package  
 >are not alltogether correct...anyway..any help would be great!

APR REPLY: Its done! USGS fm 2,000,000 data. Ill send it to the station  
 asking it will be in the next upgrade...

**425. Re:GPS units**

From: kauten@mindspring.com (James R. Kauten, M.D.)  
 Date: Sun, 23 Jul 1995 10:22:54 -0500  
 To: aprssig@tapr.org  
 Message-ID: <199507231419.KAA24622@dylan.mindspring.com>  
 Rendered body type: text/plain

Need some advice on best GPS units to use for APRS system. Am looking to get into the hobby and want to start our right.

TNX,

Jim Kauten, M.D., K04RQ

---

## 426. APRS METSCAT, footprints and suggestions

From: Ralph Wallio <WALLIO@dsl1.dsmnet.com>  
Date: Sun, 23 Jul 1995 10:10:07 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <950723101007.60b0@dsl1.dsmnet.com>  
Rendered body type: text/plain

TO : aprssig@tapr.org  
FROM : Ralph Wallio, W0RPK wallio@dsl1.dsmnet.com  
SUBJECT: APRS METSCAT, footprints and suggestions  
DATE : 23 Jul 95

I could develop a bibliography of what I have in my file for folks who develop METSCAT interests with an attention time constant long enough that it would do any good. My library of articles and analysis documents is significant up to the mid-80's when my interests mutated to other areas.

The 'footprint' feature and constraint of METSCAT has been very important to both military and commercial network designers. The military folks are very concerned about probabilities of intercept and jamming. Both design camps are concerned about frequency re-use in multi-node networks and relaying requirements.

In METSCAT, 'a communication link is established only during the brief interval when a meteor trail (ionized column) occurs with the proper geometric orientation with respect to the transmitter and receiver. The proper orientation is such that the angles of incidence and reflection in the transmitter-meteor-receiver path are equal. This geometric condition, known as specular reflection, is satisfied whenever the trail is tangent to one of a family of confocal prolate spheroids having the transmitter and receiver as foci.' ... 'Certain inherent privacy features are characteristic of meteor burst communication links. Due to the specular scattering requirement, signals propagating between a specific transmitter and receiver can normally be detected by an eavesdropping receiver only if the latter is located in an elliptically bounded footprint in the vicinity of the primary receiver. By reciprocity, interfering signals (whether intentional or unintentional) from a remote transmitter will propagate to a meteor burst receiver only if the interfering transmitter is within the footprint of the desired transmitter'. (J.D. Oetting, IEEE Transactions on Communications, Vol. Com-28, No. 9, pp 1591-1601, September 1980, An Analysis of Meteor Burst Communications for Military Applications)

Dr. Oetting, then of Booz, Allen and Hamilton in Bethesda, MD, is only one of many analysts who have made this important point. METSCAT is very LPI (Low Probability of Intercept) and very resistant to jamming. He goes on, further in this paper, to make the point that the footprint is not well defined enough to yield to strict mathematical prediction. Statistical correlation methods must be used to understand and optimize the characteristic.

Other authors have further defined the characteristic in relation to underdense and overdense trails. To paraphrase Carl Sagan, daily there are 'billions and billions' of ionized meteor trails available on a 24-hour basis. Of these countless billions, the vast majority are 'underdense', which absorb and reradiate signals, and a precious few are 'overdense', which reflect signals. The footprint of the much more numerous underdense trails is known to be slightly smaller than footprints created by overdense trails. Commercial and military networks are designed to use the much more numerous underdense trails. Traditional Amateur Radio METSCAT operations (using SSB and CW weak signal techniques) have used both as the rare long time constant overdense category came to be called 'blue whizzers'.

Initial APRS METSCAT operations on 2M using AX.25, AFSK on FM and 1200BPS will only be able to use the rare overdense trails. The short time constant of underdense trails at 144MHz combined with the required time for the shortest usable AX.25 packet at 1200BPS

and required SNR of AFSK on FM preclude the use of much more numerous underdense trails.

The footprint created by either underdense or overdense trails is proportional to wavelength, that is, footprints on 6M links will be larger than footprints on 2M links. Available footprint correlation curves do not include information for frequencies as high as 144MHz, but at 92MHz the curves indicate correlation factors (footprints) which never exceed 175km along the path and 75km across the path, even at very low correlation values. The bottom line: the footprint might be fuzzy but, in relation to the link, it is very small.

So what are we going to do with this feature/limitation? (Military designers like its LPI and jam resistance. Commercial designers have to combine what are effectively point-to-point links into a network by relaying traffic point-to-point-to-point ..., ad nauseam.) For one thing, APRS METSCAT operations will not have to worry about QRM. The chance of two stations, separated by more than a few tens of miles, receiving a single APRS probe is negligible. It will be ok to go key down and transmit zillions of probes, the vast majority of them will not be coming back. (However, other local users of the same frequency who are not participating in the test may take exception.)

My recommendation for 'pairing off' was directed toward experimenters who want to continue investigation of METSCAT techniques between showers. For Bob's BIG EVENT, it could be interesting and fun to congregate on the same frequency and count what we receive. Bob's APRS concept and program have been successful so embedded APRS operations on 145.79MHz might be too numerous to allow an interfering METSCAT test of several days. Perhaps we will have to find a temporary frequency between 145.500 and 145.800MHz (the miscellaneous and experimental segment of 2M).

Traditional Amateur Radio weak signal METSCAT operations have been mostly one-on-one. VHF operators looking for new states and grid squares make schedules with specific stations during important showers devoting roughly 30 minutes per schedule. Many stations congregate on 3.818MHz, especially during early morning hours when burst counts are highest, and make impromptu additions to their master schedules. This chaos alone is fun to monitor.

We could all plan on operating on the same frequency, one APRS METSCAT test channel, 145.nnnMHz, and stations can decide to monitor the channel independently. A few transmitting stations, those with significant power and antenna gain, could use path predictions to schedule their probe transmissions (and antenna directions). Transmitting stations could use 3.818MHz to advise APRS equipped receivers of their intentions, in real time.

Transmitting stations would not necessarily need to use APRS software. TNCs could be loaded with UNProto grid square info, commanded to CONV mode, and then the return key or a simple BASIC program could control the transmit interval. At the receive end, APRS code would only need to be able to recognize and display the results of successfully receiving the minimum AX.25 format Bob has suggested.

Transmitting stations should be prepared to go key-down for several minutes at a time, transmitting thousands of APRS probes. At my station, this would mean putting blowers on the exciter and amplifier to avoid thermal shutdown.

Incidentally, while I think of it, another fact of statistical life is that while the maximum range for METSCAT links is 1200 miles, the probabilities of establishing a link fall off significantly above 800 miles. When marking maps for METSCAT range, include the 800 mile circle as well as the 1200 mile circle. The cost of efforts in the 800-1200 mile range might not be worth it.

Regards, Ralph Wallio, W0RPK

---

## 427. Re: [APRSSIG:2433] HELP! APRS Locks up my Machine!

From: mfarver@trcaccess.com (Mark Farver)  
Date: Sun, 23 Jul 1995 10:26:12 -0500

To: aprssig@tapr.org  
Message-ID: <199507231526.KAA28675@dingus.n5lyt.datarace.com>  
Rendered body type: text/plain

>If I run APRS and don't tell it to look for any serial ports, it runs fine.  
>Kinda useless that way though! If I enable a serial port for anything,  
>as soon as I attempt to move the cursor from the keyboard, the system locks  
>up. The cursor never moves, but, I get:  
>Internal Stack Overflow  
>System Halted

I have seen a similar problem before with keyboard lockups and serial ports.  
As best I can figure out it is related to a defect in some interrupt  
controllers built around that time. If you have a copy of any decent system  
diagnostics program (Norton works fine, MSD is useless) the interrupt  
controller should fail during tests. I've never seen a solution to the  
problem save for replacing the MB.

Mark,  
KB9JMJ

---

## 428. APRS-SAREX REPORTS DUE!

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Date: Sun, 23 Jul 1995 16:41:57 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950723163739.828E-100000@greatlakes.nadn.navy.mil>  
Rendered body type: text/plain

I think now I understand why only 1 APRS packet was digipeated by SAREX  
during this WORLD-WIDE special APRS-SAREX test. So far, only 5 stations  
have reported participating. If you were transmitting APRS UI position  
reports during ANY pass during which SAREX was in PACKET mode, let us  
know. Thanks.

---

## 429. RE: [APRSSIG:2453] APRS-SAREX REPORTS DUE!

From: Doug Smith <dougs@ccnet.com>  
Date: Sun, 23 Jul 95 14:05:38 PDT  
To: aprssig@tapr.org  
Message-ID: <Chameleon.950723140701.dougs@ccnet.ccnet>  
Rendered body type: text/plain

On Sun, 23 Jul 1995 15:55:26 -0500 Bob Bruninga wrote:

>reports during ANY pass during which SAREX was in PACKET mode,  
>let us

I let my station remain on the aire for about three days  
straight and I saw what apparently was a garbled transmission.  
I was in APRS (space mode). It would be exciting to try again.

-----  
ORIGIN: Doug Smith    dougs@ccnet.com  
Pleasant Hill, CA    http://www.ccnet.com/~dougs/  
WA6GON               Packet/APRS/RTTY/SWL  
Sysop               Douglas.Smith@f911.n161.z1.fidonet.org  
-----

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## 430. GPS TRACKER ONLY SETUP

From: wnolle@ro.com (William Nolle)  
Date: Sun, 23 Jul 1995 16:38:04  
To: aprssig@tapr.org  
Message-ID: <199507232144.QAA15930@sh1.ro.com>  
Rendered body type: text/plain

Is there anyone on the sig running a PacComm Tiny-2 MK-2 with gps, sure would  
like to have the setup since i can't get my KPC-3 to work at all even when setting  
it just like a friend of mine has his, may have to have the TNC checked. The GPS  
is working great. I also have a Handi-Packet i would like to have the setup for.  
I have seen several tracker only setups posted for the KPC-3 but all those had  
some commands left out. It would be great if those users that already have their  
system working would share the exact setup for their system for those of us that  
are getting old and don't understand the manuals like you young people do Hi Hi.  
Just remember even one wrong command will give the person trying to set his  
system up for the first time a lot of grief.

Bill KE4EER  
wnolle@ro.com  
And thanks in advance!

## 431. maps??

From: potomacg@telalink.net (Mike Jackson)  
Date: Sun, 23 Jul 1995 19:29:16 -0500  
To: aprssig@tapr.org  
Message-ID: <199507240029.TAA24238@eden.telalink.net>  
Rendered body type: text/plain

Does anybody have any maps for Nashville, Tn? Try as I might, I just can't seem to figure out how to make one. I downloaded all the appropriate \*.gra files and ran the usgs2map.bas program, but all I get after it runs are a couple of 88 byte files... Seem kinda small for a 36 mile radius map. Any ideas??

Mike Jackson. KD4KS0

```

=====
Mike T. Jackson                                KD4K5Q
4819 Jeffery Drive      potomacg@medifax.com
Nashville, Tn 37211-4043  Mxxxxxx@aol.com
(615) 331-2706 Home (615) 832-3490 PC
1-800-846-9035 (138) Work
=====

```

## Forget Windows 95... Windows NT RULES!

\*\*\*\*\*

### 432. Re: [APRSSIG:2437] Persieds METEOR shower questions

From: lbutter@awod.com (Larry Butler)  
Date: Sun, 23 Jul 1995 20:20:17 -0400  
To: aprssig@tapr.org  
Message-ID: <199507240020.UAA16444@sumter.awod.com>  
Rendered body type: text/plain

Charleston's APRS community will comply with the Perseid test. We will have many stations monitoring in the Southeast corner here. WIDE should be able to get out from here with its 400 watt ERP omnidirectional signal. I'm not sure how it will work, but I have confirmed reports from something that KD4UYR in Tampa has seen our beacons first class. I was amazed. I also got a report of my WIDE being seen in Alabama, Atlanta, Virginia and Maryland. I suspected the South connections were tropo as we have huge inversions here. We work Florida repeaters with 1W HTs when it is hot. But I cannot explain the northern stations seeing WIDE direct. It makes one wonder....

I just sent a message to Tony Rath, V31L0, an old friend from my 20 meter packet days. Tony is a marine biologist that is putting Belize on packet. He is configuring a node for the country and will have it on soon. I have given him the tapr internet address and hope to get him to try 30m APRS very soon. Wouldn't it be nice to see many stations from Belize on APRS? Tony is [tony.rath@belize.com.bz](mailto:tony.rath@belize.com.bz) if you wish to send him traffic. Would someone get him on the list, please? Maybe we should hook him on this virus we all have. He'd be a great asset to APRS and a great contact!

73, all, Larry KN4IM

**433. Re: [APRSSIG:2456] maps??**

From: rwf@mindspring.com (rwf)  
Date: Mon, 24 Jul 1995 00:03:07 -0400  
To: aprssig@tapr.org  
Message-ID: <199507240403.AAA01154@dylan.mindspring.com>  
Rendered body type: text/plain

>N4QEa in Knoxville has made 32 mile maps for Chattanooga thru Johnson City  
He is wkg on Nashville and may be finished. His address is moyer@ibm.net

Let me know if you get them.

>  
>

Ralph Fowler, N4NE0

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: [ftp.mindspring.com/users/rwf](ftp://ftp.mindspring.com/users/rwf) for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

## 434. Nashville Map

From: potomacg@telalink.net (Mike Jackson)  
Date: Sun, 23 Jul 1995 23:19:05 -0500  
To: aprssig@tapr.org  
Message-ID: <19507240419.XAA29642@eden.telalink.net>  
Rendered body type: text/plain

WOW! What an outpouring of support. And two maps already. Thanks for all the work and suggestions. I'll put them to good use, and try my hand again at making some myself.

Mike Jackson. KD4KSQ

```

=====
Mike T. Jackson                                KD4K5Q
4819 Jeffery Drive      potomacg@medifax.com
Nashville, Tn 37211-4043  Mxxxxxx@aol.com
(615) 331-2706 Home (615) 832-3490 PC
1-800-846-9035 (138) Work
=====

```

# Forget Windows 95... Windows NT RULES!

### 435. Re:Announcing: APRS Home Page on WWW

From: rwf@mindspring.com (rwf)  
Date: Mon, 24 Jul 1995 00:14:59 -0400  
To: aprssig@tapr.org  
Message-ID: <199507240414.AAA03073@dylan.mindspring.com>  
Rendered body type: text/plain

I have been working on a little APRS page for the World Wide Web. With Bob's help, it is ready for action. Don't expect a lot yet- just an intro to APRS, a few screen shots, and a link to download the program. Bob wanted a spot to send APRS-interested folks to when they asked for info on APRS.

Currently the downloadable program is the one I distribute locally (APRS7B customized for the SouthEast), but I plan to have other single-click links to the "Official" version as well.

If any of you have any suggestions or additions, or would like to help out with this, please let me know.

Look at the screen shots. Would it be useful for me to capture shots (using a backup file provided by you) of nets in other areas for people to see? Let me know.

Tha address is below in my signature. Check out my other pages too. Lots of useful ATV info, pics, and more.

73

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: <ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

### 436. Atlanta GA Balloon Launch 7/29/95

From: rwf@mindspring.com (rwf)  
Date: Mon, 24 Jul 1995 00:27:21 -0400  
To: aprssig@tapr.org  
Message-ID: <199507240427.AAA05149@dylan.mindspring.com>  
Rendered body type: text/plain

PRELIMINARY more details to follow  
(Thanks to the HABET folks in Iowa, whose format I borrowed)

Atlanta Balloon Update on 23 July 1995:

All equipment for all packages on hand.  
Payloads modules tested. Final integration underway.  
Weather looks to favor launch from Woodstock GA.

#### ATLANTA BALLOONATICS

##### Balloon #4 Mission Announcement

DATE/TIME : Saturday July 29th or Sunday July 30th  
: Release 0930EDT (1330Z) 0930EDT (1330Z)  
: Weather conditions will control exact time of release

##### RELEASE SITE:

: Antenna Test Range 7 miles West of Woodstock, GA  
: Coordinates ???

: Payload weight : 2.27kg (5-pounds)  
: Balloon : TOTEX TA-1200  
: Helium : ???  
: Ascent rate : 1000 fpm  
: Max altitude : 110,000ft  
: Max radio range: 640km (400sm)

##### FREQUENCIES AND MODES

: Packet Radio Downlink 440.1 MHz 2W  
: Retransmitted from ground into APRS net on  
145.79 MHz and on 14.105 MHz LSB  
: Standard AX.25 1200BPS AFSK FM  
: Sending APRS-compatible NMEA-183 GPS navigation data  
: No Open digipeating. No receiver. Don't try.  
  
: Altitude & Temperature telemetry on:  
146.575 MHz , 28.322 MHz , & 438.5 MHz (wide band TV  
audio)  
  
: Color ATV camera with 1 watt AM transmitter on 434.0 MHz  
  
: All antennas vertically polarized

EXPERIMENTS : More experiments in BASIC stamp control of balloon payloads.  
Stamp controlled servo/mirror for multiple  
camera views.

Possible HF net on 3.780MHz before and during mission.

For more details about this project, see the WWW address listed below

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

---

### 437. Re: [APRSSIG:2457] Re: Persieds METEOR shower questions

From: Ryan Tucker <[rtucker@crasher2.ttgci.net](mailto:rtucker@crasher2.ttgci.net)>  
Date: Mon, 24 Jul 1995 03:08:45 -0500 (CDT)  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <199507240808.DAA01375@crasher2.ttgci.net>  
Rendered body type: text/plain

> and Maryland. I suspected the South connections were tropo as we have  
> huge inversions here. We work Florida repeaters with 1W HTs when it  
> is hot. But I cannot explain the northern stations seeing WIDE direct.



> It makes one wonder....

About the only thing to do in 110 degree weather is sit inside, in an nice 68 degree air-conditioned computer room and do some armchair DX.

On a related note -- who was it who got APRS to work under linux/dosemu? I seem to misplaced your address.

--

Ryan Tucker  
TTGCITN Communications  
rtucker@ttgciitn.com  
<http://www.netins.net/showcase/rtucker>

---

#### 438. Re: [APRSSIG:2453] APRS-SAREX REPORTS DUE!

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)  
Date: Mon, 24 Jul 1995 08:58:01 +0000  
To: aprssig@tapr.org  
Message-ID: <9507241251.AA28019@oriole.ustc.vlsi.COM>  
Rendered body type: text/plain

You probably already know but I was trying both Sarex and Mir.

|                                |   |
|--------------------------------|---|
| Bob Baltz                      | * |
| Chesapeake Region Sales        | * |
| Ph: (410) 987- 8777            | * |
| Fax: (410) 987-4489            | * |
| E-mail bob.baltz@ustc.vlsi.com | * |

---

#### 439. (no subject)

From: l131764@cliffy.lfwc.lockheed.com (Skaiff ML)  
Date: Mon, 24 Jul 1995 08:14:03 -0500  
Message-ID: <9507241314.AA14717@cliffy.lfwc.lockheed.com>  
Rendered body type: text/plain

[Empty message body]

---

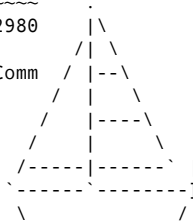
#### 440. Re: [APRSSIG:2455] GPS TRACKER ONLY SETUP

From: paul@paccomm.com  
Date: Mon, 24 Jul 95 09:16:54 UTC  
To: aprssig@tapr.org  
Message-ID: <1775@paccomm.com>  
Rendered body type: text/plain

Please give us a call and I will help you set up either the TINY-2 or the HandiPacket as a tracker.....

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980
Fax: +1 (813) 872-8696
Views expressed here are not necessarily those of PacComm
Don't surf the net, SAIL it!
Captain of S/V "Spindrift", Dunedin, FL.
Tall rig (58'), Winged Keel (4' 2"), full batten main

PacComm Packet Radio Systems
4413 N. Hesperides St., Tampa, FL 33614-7618



441. (no subject)

From: l131764@cliffy.lfwc.lockheed.com (Skaiff ML)
Date: Mon, 24 Jul 1995 08:54:25 -0500
Message-ID: <9507241354.AA19707@cliffy.lfwc.lockheed.com>
Rendered body type: text/plain

un_subscribe

442. METSCAT

From: AA8JK@aol.com
Date: Mon, 24 Jul 1995 10:16:47 -0400
To: bruninga@greatlakes.nadn.navy.mil
Cc: aprssig@tapr.org
Message-ID: <950724101646_39467736@aol.com>
Rendered body type: text/plain

Hi Bob,

We have about 60 or so members of TAWG (Tri-State APRS Working Group) that

will be looking for your METSCAT packets too!

Here is an idea. For the METSCAT testing, why don't the GATEs move their HF port from 30 meters to 28.189 lsb @ 1200 baud and we can see how it works on 10 meters.

What do you think?

73,

Steve Caesar AA8JK/VK4SID

AA8JK@aol.com

443. NE ARRL Convention & 40m Freq

From: kinahan@ws007-fddi.bytex.network.com (Tom Kinahan @ws007)

Date: Mon, 24 Jul 95 10:57:27 EDT

To: aprssig@tapr.org

Message-ID: <9507241457.AA23797@ws007-fddi>

Rendered body type: text/plain

Is anybody on this list going to the New England ARRL Convention this weekend in Manchester NH?

I'm looking for another station to be sending posits at the convention site especially during my talk on APRS at 3pm on Saturday.

Also, can somebody send me (by private email) the 40 meter APRS frequency?

Thanks!

-Tom Kinahan N1CPE

kinahan@bytex.network.com

444. KISS APRS

From: kuszni@owens.ridgecrest.ca.us (Jim Kuszni)

Date: Sun, 23 Jul 1995 15:43:13 -0800

To: aprssig@tapr.org

Message-ID: <v02130502ac388d5ee62a@[199.120.150.16]>

Rendered body type: text/plain

I have (or will within a couple of days) a PacketMac modem hooked up to a mac Performa 6118CD (based on the Powermac 6100/60). I was wondering if anyone out there knows of a way to get on APRS with a KISS-mode TNC emulator. I know the current APRS program (I have it by the way) doesn't support KISS mode. Any information or possibilities are greatly welcomed.

Sincerely,

Jim Kuszni, KE6DWM

73's,

Jim, KE6DWM

Internet: kuszni@ridgecrest.ca.us

Soon-to-be addresses:

ax.25 packet: ke6dwm@wa6ybn.#soca.ca.us.noam

TCP/IP packet: ke6dwm@ke6dwm.ampr.org [44.17.2.17]

445. Re: [APRSSIG:2469] KISS APRS

From: Keith Sproul <ksproul@hardees.rutgers.edu>

Date: Mon, 24 Jul 95 14:25:08 EDT

To: aprssig@tapr.org

Message-ID: <CMM-RU.1.4.806610308.ksproul@hardees.rutgers.edu>

Rendered body type: text/plain

>I have (or will within a couple of days) a PacketMac modem hooked up to a
>Mac Performa 6118CD (based on the Powermac 6100/60). I was wondering if
>anyone out there knows of a way to get on APRS with a KISS-mode TNC

KISS mode will EVENTUALLY be supported in MacAPRS, however, this won't be until at least Version 2.0 and is expected to be done over the winter or next summer or even later..

The main reason for doing this is to allow DYNAMIC paths, i.e. if someone

sends a message by one path, it returns the ACK by the same but OPPOSITE path. This opens up a lot of other possibilities too..

To get this to function correctly takes a LOT of work, however, the return is worth it, but currently, there are much more important things to do. Or at least things that are important, and won't take as much time and effort..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

446. Maps

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Mon, 24 Jul 1995 13:53:50 -0500
To: aprssig@tapr.org
Message-ID: <9507241853.AA17757@omnifest.uwm.edu>
Rendered body type: text/plain

Keith,

Are the maps enroute???

Dave,

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

73 de Dave

David W. Barrow III, N9UNR
Wisconsin Association of Repeaters - Frequency Coordinator
Snail: 1894 Elm Drive - Town of Cedarburg
West Bend, WI 53095-9603
Phone: (414) 375-2667
Packet: N9UNR @ N9PBY.EF63BI.WI.USA.NOAM
Internet: dbarrow@omnifest.uwm.edu

As you can tell - I T00 have been busy.

447. Atlanta GA Balloon Launch 7/29/95

From: rwf@mindspring.com (rwf)
Date: Mon, 24 Jul 1995 15:07:17 -0400
To: aprssig@tapr.org
Message-ID: <199507241907.PAA28043@dylan.mindspring.com>
Rendered body type: text/plain

PRELIMINARY more details to follow
(Thanks to the HABET folks in Iowa, whose format I borrowed)

Atlanta Balloon Update on 24 July 1995:

All equipment for all packages on hand.
Payloads modules tested. Final integration underway.
Weather looks to favor launch from Woodstock GA.

ATLANTA BALLOONATICS

Balloon #4 Mission Announcement

DATE/TIME : Saturday July 29th or Sunday July 30th
: Release 0930EDT (1330Z) 0930EDT (1330Z)
: Weather conditions will control exact time of release

RELEASE SITE:

: Antenna Test Range 7 miles West of Woodstock, GA
: Coordinates ??

: Payload weight : 5-pounds
: Balloon : TOTEX TA-1200
: Helium : 180 cu ft
: Ascent rate : 750 fpm
: Max altitude : 110,000ft
: Max radio range: 470sm

FREQUENCIES AND MODES

: Packet Radio Downlink 441.0 MHz 2W >>>> Note
change from 440.1
: Retransmitted from ground into APRS net on
145.79 MHz and on 14.105 MHz LSB
: Standard AX.25 1200BPS AFSK FM
: Sending APRS-compatible NMEA-183 GPS navigation data
: No Open digipeating. No receiver. Don't try.

: Altitude, Inside & Outside Temperature telemetry on:
146.575 MHz , 28.322 MHz , & 438.5 MHz (wide band TV
audio)

: ATV camera (poss color) with 1 watt AM transmitter on
434.0 MHz

: All antennas vertically polarized

EXPERIMENTS : More experiments in BASIC stamp control of balloon payloads.
Stamp controlled servo/mirror for multiple
camera views,
12 bit altimetry and 2, 8 bit temp probes.

Possible HF net on 3.780MHz before and during mission.

For more details about this project, see the WWW address:

<http://www.mindspring.com/~rwf>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA

APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

448. Re: [APRSSIG:2424] STS-70 Ham Gear?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 24 Jul 1995 14:34:51 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507241934.0AA17383@solar.cs.tamu.edu>
Rendered body type: text/plain

Chuck Alldrin sez:

>

> I have a question.

>

> What type and brand of Ham radio gear is being used on the STS-70 mission?

> It seems that everyone talks about the results of contacts but I've seen the

> listing of the equipment that is on board.

The Radio is a modified Motorola MX-300 series handheld. The TNC is a Heath HK21, with a few minor custom mods. The last time I checked the headset was a David Clark military version, similar to the 13.4's. The antenna is a special tuned cavity radiator that is specifically designed for 2 meters and fits in either W1 or W6, the 2 triangle-shaped windows behind the Commander and Pilot, respectively, on the front of the vehicle.

The radio puts out 2.5-3 watts, and is usually operated off Orbiter 28 vDC. It has a store of standard Motorola NiCds that have been preconditioned, tested and charged before the mission. In battery mode, packet is unavailable.

The radio is set to deviate about 2.5 kHz. This is to minimize the adverse effects of doppler shift to narrowband communications receivers on the ground.

Hope this helps. I've been out of town and haven't worked my way farr enough thru the e-mail to see if an authoritative answer has already been posted.>

Gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

449. Re: [APRSSIG:2455] GPS TRACKER ONLY SETUP

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 24 Jul 1995 14:58:55 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507241958.OAA17864@solar.cs.tamu.edu>
Rendered body type: text/plain

William Nolle sez:

>

> Is there anyone on the sig running a PacComm Tiny-2 MK-2 with gps, sure would

Yep. I'll upload the setup I use here tonight, when I get home.

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

450. Re: [APRSSIG:2468] NE ARRL Convention & 40m Freq

From: quarry@q.continuum.net (Chip Griffin)
Date: Mon, 24 Jul 1995 16:48:43 -0400
To: aprssig@tapr.org
Message-ID: <v01520d02ac39b65867f9@[199.0.52.64]>
Rendered body type: text/plain

>Is anybody on this list going to the New England ARRL Convention this weekend
>in Manchester NH?

>

> I'm looking for another station to be sending posits at the convention site
>especially during my talk on APRS at 3pm on Saturday.

I'm going, and I will have my laptop and GPS with me. I won't, however, be able to help you until my PicoPacket comes (a few weeks away) because my laptop only has a single serial port. I can manually input the position from the GPS, but I won't be able to give you any real mobile data. I might not be there until after 3pm either, I am only going for the Wouff Hong (put on by my local club).

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

http://q.continuum.net/~quarry/quarry_home.html

451. Motorola HT-220's

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Mon, 24 Jul 1995 16:10:08 -0500
To: aprssig@tapr.org
Message-ID: <199507242104.QAA23560@psycfrnd.interaccess.com>
Rendered body type: text/plain

Hi all,

We are building up a number of stand alone tracking units for Coast Guard Aux SAR use based on KPC3's and Tiny2's for TNC, Motorola Cards or Loran input ports for data and need radio ideas. In the GPS text Bob talks about HT-220's. Anyone using them?, got one (or more)for donation or sale ? I want to free up some of our HTs...

73
Ed
N9LCI

452. GPS and driving...

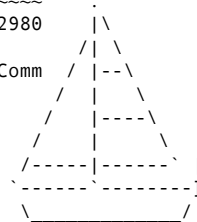
From: paul@paccomm.com
Date: Mon, 24 Jul 95 17:51:04 UTC
To: aprssig@tapr.org
Message-ID: <1846@paccomm.com>
Rendered body type: text/plain

Read a message from someone the other day who warned against driving and using a GPS receiver.

It is VERY dangerous to drive and look at the GPS screen. When the AIV-10 prototypes were being developed for use in Japan (no street signs) for a map navigation system, they put 100 units out on vehicles to test the ergonomics. It was supposed to be a 12 month experiment. After 4 months it was terminated because over 70 of the vehicles had been crashed by driving into lampposts, other cars, walls, etc. !!!!!!!!!!!

Please be very careful. These things are worse than HT's, mobiles and cellular 'phones all rolled into one.....

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980  
Fax:+1 (813) 872-8696  
Views expressed here are not necessarily those of PacComm  
Don't surf the net, SAIL it!  
Captain of S/V "Spindrift", Dunedin, FL.  
Tall rig (58'), Winged Keel (4' 2"), full batten main  
  
PacComm Packet Radio Systems  
4413 N. Hesperides St., Tampa, FL 33614-7618  
~~~~~



453. Re: [APRSSIG:2476] Motorola HT-220's

From: DKAPLAN@netins.net (David Kaplan)
Date: Mon, 24 Jul 1995 17:29:35 -0500
To: aprssig@tapr.org
Message-ID: <199507242229.RAA19367@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

>Hi all,
>
>We are building up a number of stand alone tracking units for Coast Guard
>Aux SAR use based on KPC3's and Tiny2's for TNC, Motorola Cards or Loran
>input ports for data and need radio ideas. In the GPS text Bob talks about
>HT-220's. Anyone using them?, got one (or more)for donation or sale ?
>I want to free up some of our HTs...
>
>73
>Ed
>N9LCI
>
>Our Civil Air Patrol unit would be interested in a donation of them!!
Dave

454. GPS mobile with Push Button

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 24 Jul 1995 19:37:13 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950724193331.8202A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Mon, 24 Jul 1995, Chip Griffin wrote:

> I'm going to the ARRL convention, with my laptop and GPS but I won't,
> be able to help you until my PicoPacket comes (a few weeks away) because my
> laptop only has a single serial port.

APR REPLY: Dont overlook the simple SPDT push button switch to switch the serial port RXD line to either the GPS or TNC. This allows you to operate APRS Mobile in SPM mode and to update your position each time you press the button..

455. MAPS and thanks..!

From: KD4EMI@aol.com
Date: Mon, 24 Jul 1995 19:43:32 -0400
To: aprssig@tapr.org
Message-ID: <950724194330_39858257@aol.com>
Rendered body type: text/plain

I would like to first thank everyone who responded to my plea for help in using the Garmin 45 and the KPC. Look for me tooling around South Florida...

#1

Of note, this weekend plan to test to see if the data stream continues after I exceed 99 miles an hour...Will keep you informed (look for me mobile this weekend..If I drop out then you'll know first hand !)

#2 MAPS

Can any of you guys with those CD ROMS make some better street maps of South Florida, especially Fort Lauderdale??
We would be much in your debt..

#3 Now the only problem is convincing the wife that I need another 2 meter radio and TNC for the house, while I am in the car. I am considering a cheap scanner and inhibiting the Xmit..

Again thanks for all the help.
Mike KD4EMI@AOL.COM

456. Where is everyone?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 24 Jul 1995 20:04:20 -0400 (EDT)
To: APRS sig group <aprssig@tapr.org>
Message-ID: <Pine.BSF.3.91.950724200303.19396A-100000@laraby.tiac.net>
Rendered body type: text/plain

I haven't seen any posts from this group for days!

Have I "gotten lost"?

Richard Amirault	N1JDU	Boston, Massachusetts USA
amirault@tiac.net	"Go Fly A Kite"	

457. APRS workshop

From: jgarrett@world.std.com (John Garrett)
Date: Mon, 24 Jul 1995 20:18:14 -0400
To: barc-list@netcom.com
Cc: aprssig@tapr.org
Message-ID: <6X35mmPA4Is0065yn@World.std.com>
Rendered body type: text/plain

Well, Murphy got me this time. I have had a few responses on the upcoming APRS workshop, scheduled for 7/30 here in Arlington. That date seems to conflict nicely with the ARRL NE convention in Manchester. How about we postpone the confab a couple of weeks? Comments? Other participants?

John
WN9T

458. Re: [APRSSIG:2480] MAPS and thanks..!

From: mark@tetherless.com (Mark Oppenheim)
Date: Mon, 24 Jul 1995 17:25:12 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199507250025.RAA28343@gorgor.pa.tetherless.com>
Rendered body type: text/plain

At 06:55 PM 7/24/95 -0500, KD4EMI@aol.com wrote:

>I would like to first thank everyone who responded to my plea
>for help in using the Garmin 45 and the KPC. Look for me tooling around
>South Florida...

>#1

>Of note, this weekend plan to test to see if the data stream continues after
>I exceed 99 miles an hour...Will keep you informed (look for me mobile
>this weekend..If I drop out then you'll know first hand !)

No, it will work fine until you hit 110 MPH. Then the display blanks out. Let us all know if the data stream does the same, but since the "Track Log" also drops out during this time, I doubt that any data other than speed is even being looked at past that speed.

I hope you don't have a Vega ;)

Mark

Mark Oppenheim	Internet: MARK@TETHERLESS.COM
Tetherless Access Limited	Voice: 415-843-6880 x18
2468 Embarcadero Way	Fax: 415-843-6890
Palo Alto, California 94303 USA	

Visit our WWW site! <http://www.tetherless.net/>

459. Re: [APRSSIG:2473] Re: STS-70 Ham Gear?

From: calldrin@sierra.net (Chuck Alldrin)
Date: Mon, 24 Jul 1995 18:23:12 -0700
To: aprssig@tapr.org
Message-ID: <199507250123.AA15695@diamond.sierra.net>
Rendered body type: text/plain

Many thanks Jerry for the info. I just wanted to see what was in the STS's

I enjoy your many comments on this SIG... Keep up the good work!

Chuck Alldrin

>Chuck Alldrin sez:
>>
>> I have a question.
>>
>> What type and brand of Ham radio gear is being used on the STS-70 mission?

460. Re: [APRSSIG:2481] Where is everyone?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 24 Jul 1995 20:35:38 -0500
To: aprssig@tapr.org
Cc: amirault@tiac.net
Message-ID: <v01520d00ac39f87dfae1@[199.1.11.143]>
Rendered body type: text/plain

>I haven't seen any posts from this group for days!
>
>Have I "gotten lost"?
>
>Richard Amirault N1JDU Boston, Massachusetts USA
>amirault@tiac.net "Go Fly A Kite"

I have had to re-subscribe to this group 4 times this year.
Any problems at your internet server and you get de-listed.
You can down load any months worth of E-Mail from the server or ask
me for a fill as I have all since APRSSIG-0000

I forgot how to test to see if one is still listed.
Re-listing yourself might tell or changing you password might give
an indication.

There are several messages a day on this group so re-subscribe ASAP.

This is the most active group I read. I have learned a lot !!!
Thanks Bob and Keith

Bob kc5ejk@onramp.net

461. STS-70 APRS-SAREX Final Report

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 24 Jul 1995 22:20:44 -0400 (EDT)
To: aprssig@tapr.org
Cc: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.950723212055.1207B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

BACKGROUND

During mission STS-70, the SAREX team authorized limited testing of APRS position reporting via the SAREX digipeater. In order to have some control over the number of uplinking stations, and to have a mechanism for real-time communications among members of the experiment, the test was limited to the 150 or so stations on the INTERNET APRS SIG sponsored by TAPR. During about 22 potential orbits for most stations

in North America, SAREX was heard in voice mode on 7 and packet mode on 6. During these 6 passes, only 3 stations reported active APRS attempts and all were above 35 degrees latitude. Only 1 APRS position report that was digipeated by SAREX was observed (by two stations).

LESSONS LEARNED:

- 1) Having 150 subscribers on a LISTSERVER does not mean everyone is reading their mail or participating. Although numerous announcements were posted, I did not interrogate participants in advance for fear of reply-message overload. Post-event activity reports were obtained from only 9 individuals on the SIG.
- 2) The grid square format used for this mission can be further compressed by another 33% to as short as a CONNECT REQUEST by placing the 6 digit grid square within the AX.25 TOCALL address field. This means that the channel loading on the SAREX uplink is identical for both APRS or CONNECT request packets, except for the added digipeater field.

SUMMARY:

UI packet digipeating of minimum length grid-square position reports has great potential on future SAREX missions for a significant improvement in "success" rate for all stations, and for better visualization in the SAREX classroom. The advantages are:

- a) Successful grid square reports (26 bytes) use only 13% as much capacity on the downlink as the present SAREX replies which use 74 bytes plus 74 bytes per retry (average 2.5) plus 18 byte disconnect.
- b) Successful Grid square packets (26 bytes) use only 41% as much capacity on the uplink compared to the 18 byte connect request plus 18 bytes per ACK (average 2.5).
- c) Congestion on the uplink will be about comparable since the 18 byte connect requests are sent at about a 6 second rate compared to a maximum 10 second rate for the 26 byte gridsquare beacons.
- d) The gridsquare position report provides students with a much greater visualization of the 3D geometry of spacecraft, orbit and groundstations than a simple SAREX QSO number.
- e) Having students plot the ground stations on maps is a great learning activity for younger students.

The only tradeoff to this potential order of magnitude improvement in throughput and visual value will be the vulnerability to stations trying to use the digipeater for terrestrial CONNECTED LINKS. The usual self policing of amateur radio operators should mitigate this problem. A small change to the SAREX TNC ROM to only permit the digipeating of UI packets is a permanent solution.

RECOMMENDATIONS:

- 1) For future SAREX PACKET missions, both AMSAT and ARRL bulletins should encourage stations worldwide to uplink minimal length gridsquare position reports vice CONNECT REQUESTS. I will complete APRtrak and contribute it to the AMSAT library for tracking these posits. APRtrak is optional since school students can easily plot grid squares on maps!
- 2) Plans should be made for taking APRtrak on the both the SAREX and MIR computers so astronauts can SEE participating ground stations in range!
- 3) Plans for a new SAREX TNC rom should include the provision for enabling ONLY UI digipeating. AND for periodic insertion in the downlink of the last 80 minutes of successful gridsquare reports from the other side of the orbit. There is little penalty for this extra data, since the downlink is at least 4 times as effecient as the uplink! This WHOLE orbit data would further expand the horizons of SAREX students.

The statistics to support the above analysis comes from the following reported SAREX packet passes and the data from XE1KK showing 35 QSO numbers provided in 86 different packets over a 6 minute pass on 18 July at approximately 1250Z. THIS REPORT IS PRELIMINARY, but should include most APRS reports. A general message was also posted on the AMSAT-BB for general SAREX packet activity, but any late data from this query is not expected to change the APRS data or conclusions.

DAY	TIME	ZONE	STATES	REPORTED	ACTIVITY
					SEEN
Thur					Launch, no activity
	0953	EDT			Voice QSO,s reported by JSC
Fri	1123	EDT			*SAREX packets heard in CA
SAT	0835	EDT			*SAREX packet heard in MD
	1005	EDT	NC		*SAREX packet heard in MD and Mexico
					**APRS posit from W4NMK seen in MD!
SUN	0705	EDT			Voice QSO's heard in MD,NC
	0720	EDT	MD		MIR: G3ZCZ non-APRS UI gridsquare (FM19)
	0838	EDT			*SAREX packet! no APRS seen in MD NC
	1702	EDT			MIR: pbbs heard in Chicago
	1013	EDT			Voice QSO's heard in NC,TX
MON	0537	EDT			*SAREX packet! no APRS seen in MD
	0712	EDT			*SAREX packet! no APRS seen in MD
	0847	EDT			nothing heard
TUES	0540	EDT			no packet detected
	0715	EDT			Voicec QSO's
	0848	EDT			W5RRR testing UI pkts. 23 seen by XE1KK
					DIGI path CONNECTED QSO's with XE1KK and WA5FRF
					7 packets from XE1KK and 3 from FRF.
					No packets detected in MD (unattended)
	1022	EDT			Voice QSO's heard in N.CA
	1157	EDT			Packet then switched to voice QSO's in N.CA
WED	0416	EDT			no packet detected
	0550	EDT			no packet detected
	0726	EDT			Voice QSO's
THUR	0423	EDT			no packet detected
	0600	EDT			no packet detected
	0730	EDT			no packet detected
FRI	1000	EDT			Voice QSO's heard in NJ

APPROXIMATE STATISTICS FROM REPORTING STATIONS:

CALL	LAT	LON	TOTL PASS	PKT PASS	ACTIVE	0 PKTS	1-5 PKTS	6-10 PKTS	11-20 PKTS	lots PKTS	APRS PKTS	COMMENTS
WB4APR	39	076	22	5	3	2	1	1	.	.		
W3ADO	39	076	19	5	2	1	1	1	.	.	1	W4NMK
N3MNT	39	076	?	?	?							
W4NMK	35	082	17	5	5	3	2	.	.	.	1	W4NMK
N5JXS	texas		?	?								
KK6IB	33	117	16	1	.	.	1	.	.	.		
KE6AFE	??	???	3	1	.	.	.	.	.	1		
KB2TGH	41	073	5	0	.	.	.	.	.	.		
WA6GON			9	0	.	.	.	.	.	.		
N9LCI	42	088	2	1	.	.	1	.	.	.		
XE1KK	??	???	??	2	1	(not an APRS station)					1	31 UI's

TOTAL PASSES: Total for which the station was at least LISTENING

PACKET PASSES: Total passes on which packets were DETECTED (ear is ok)

ACTIVE PASSES: For the PACKET PASSES ONLY, indicate the number of those passes you were ACTIVELY sending UI frames (at the right time) above the normal background level. Either live or by using the APRS unattended mode.

0 PKTS: This is the number of PACKET passes during which you HEARD packets, but decoded NONE

1-5 PKTS: The number of passes when you decoded 5 or less pkts

6-10 PKTS: The number of passes when you decoded 6 to 10 pkts

etc

462. Re: [APRSSIG:2480] MAPS and thanks..!

From: rwf@mindspring.com (rwf)
 Date: Mon, 24 Jul 1995 22:49:19 -0400
 To: aprssig@tapr.org
 Message-ID: <199507250249.WAA01518@dylan.mindspring.com>
 Rendered body type: text/plain

>
 >#3 Now the only problem is convincing the wife that I need another 2 meter
 >radio and TNC for the house, while I am in the car. I am considering a cheap
 >scanner and inhibiting the Xmit..
 >

Should be no problem. Just tell her she can look at the computer and see where you are.

Hey: Guys making the street maps for him, make sure to mark all those places on US 441 just North of the Dade/Broward County line. You know, the ones with the covered over windows. I think there are some on US 1as well!! :)

463. Re: [APRSSIG:2456] maps??

From: moyers@ibm.net
Date: Mon, 24 Jul 95 22:43:34
To: aprssig@tapr.org
Message-ID: <9507250552.AA0033@slip35-130.il.us.ibm.net>
Rendered body type: text/plain

>
> Does anybody have any maps for Nashville, Tn? Try as I might, I just can't
> seem to figure out how to make one. I downloaded all the appropriate *.gra
> files and ran the usgs2map.bas program, but all I get after it runs are a
> couple of 88 byte files... Seem kinda small for a 36 mile radius map. Any
> ideas??
> Mike Jackson. KD4KSQ
>

Mike, You are in luck (well sorta in luck) I am working on a set of 32 mile APRS maps for TN. Currently completed are Knoxville, Chattanooga, Kingsport/Bristol. As soon I get Nashville and Memphis completed I will upload TNmaps.zip to the sig. The zip file will include MAPLIST.TN and I will check the list file to make sure it is working before the upload. Hope that answers your question. 73 de John N4QEA @ N4QEA.#METN.TN.USA.NA
moyers@ibm.net

> _=*****=-
> Mike T. Jackson KD4KSQ
> 4819 Jeffery Drive potomacg@medifax.com
> Nashville, Tn 37211-4043 Mxxxxxx@aol.com
> (615) 331-2706 Home (615) 832-3490 PC
> 1-800-846-9035 (138) Work
>
> Forget Windows 95... Windows NT RULES!
> _=*****=-

Amazing.....and OS/2 DOES IT ALL!!!!!! Warp 9 Mr. Crusher.

464. Re: [APRSSIG:2488] Re: maps??

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>
Date: Tue, 25 Jul 1995 00:31:31 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <9507250031.aa02781@comix.Santa-Cruz.Ca.US>
Rendered body type: text/plain

> > Mike T. Jackson KD4KSQ
> > Forget Windows 95... Windows NT RULES!

> Amazing.....and OS/2 DOES IT ALL!!!!!! Warp 9 Mr. Crusher.

Unix uber alles! (I couldn't resist).
You can do almost anything (if you can figure out how).

--
Jeff Liebermann Box 272 1540 Jackson Ave Ben Lomond CA 95005
408.336.2558 voice wb6ssy@ki6eh.#nocal.ca.usa wb6ssy.ampr.org [44.4.18.10]
408.699.0483 digital_pager 73557,2074 cis [don't]
jeffl@comix.santa-cruz.ca.us scruz.ucsc.edu!comix!jeffl

465. Re: [APRSSIG:2486] STS-70 APRS-SAREX Final Report

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 25 Jul 1995 08:21:57 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507251321.IAA28585@solar.cs.tamu.edu>
Rendered body type: text/plain

Mea Culpa.

I've beens wamped since the mission doing something for my REAL job (he thinks GPS is pretty neat but...)

Bob, for the record, I'll roughly at 30.5/97. There were packets on Wed and Thurs early morning, and I'll have to go back and reconstruct.

Since I was using APRS69, I don't have good control of things like total numbers of ui, etc., and, since SOMETHING resets my TNC's MH list when I exit APRS (and I was too dull to disconnect the TNC) I couldn't capture the calls successfully when I started noting the problem.

Be that as it may, while I'm going to go back through and check all the logs and track histories, I don't recall seeing anything on-screen when I looked.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

466. Re: [APRSSIG:2488] Re: maps??

From: potomacg@telalink.net (Mike Jackson)
Date: Tue, 25 Jul 1995 08:42:55 -0500
To: aprssig@tapr.org
Message-ID: <199507251342.IAA23542@eden.telalink.net>
Rendered body type: text/plain

John, thanks for taking the time to make us some detailed maps. If you look above in the messages there are a 'couple maps that others have put together for the Nashville area. I've been so busy at work lately I haven't been able to load them up and try to find myself :)
Keep up the good work, and if I can help please let me know.

Mike Jackson KD4KSQ

>

>

>Mike, You are in luck (well sorta in luck) I am working on a set of 32 mile APRS maps for TN.

>Currently completed are Knoxville, Chattanooga, Kingsport/Bristol. As soon I get Nashville and

>Memphis completed I will upload TNmaps.zip to the sig. The zip file will include MAPLIST.TN and I

>will check the list file to make sure it is working before the upload.

Hope that answers your

>question. 73 de John N4QEA @ N4QEA.#METN.TN.USA.NA

>moyers@ibm.net

>

>

>Amazing.....and OS/2 DOES IT ALL!!!!!! Warp 9 Mr. Crusher.

What will it do that NT doesn't?

Mike T. Jackson KD4KSQ
4819 Jeffery Drive potomacg@medifax.com
Nashville, Tn 37211-4043 Mxxxxxx@aol.com
(615) 331-2706 Home (615) 832-3490 PC
1-800-846-9035 (138) Work

Forget Windows 95... Windows NT RULES!

467. Re: [APRSSIG:2477] GPS and driving...

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 25 Jul 1995 08:41:52 -0500
To: aprssig@tapr.org
Message-ID: <9507251341.AA27227@omnifest.uwm.edu>
Rendered body type: text/plain

> It is VERY dangerous to drive and look at the GPS screen. When
> the AIV-10 prototypes were being developed for use in Japan
> (no street signs) for a map navigation system, they put 100 units
> out on vehicles to test the ergonomics. It was supposed to be
> a 12 month experiment. After 4 months it was terminated because
> over 70 of the vehicles had been crashed by driving into lampposts,
> other cars, walls, etc. !!!!!!!!!!!

>

> Please be very careful. These things are worse than HT's, mobiles
> and cellular 'phones all rolled into one.....

~~~~~

Yep -

They are finding the same type of problems with putting CRTs in squad cars. When we put them in Pinellas County (just west of Tampa almost EVERY deputy had a "fender bender" from hitting the car in front of them while "communicating". It is even worse now. Because of the air bags the screens are mounted lower in the vehicle (just above the "hump" and the driver's eyes are nowhere near the windshield.

CUL & 73 de Dave

```
=====
David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====
```

---

#### 468. Re: [APRSSIG:2481] Where is everyone?

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Tue, 25 Jul 1995 08:52:51 -0500  
To: aprssig@tapr.org  
Message-ID: <9507251352.AA21020@omnifest.uwm.edu>  
Rendered body type: text/plain

Yes you have "gotton lost" - plenty of posts daily. In fact it daily puts me over my 50 Kb "limit".

CUL & 73 de Dave

```
=====
David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====
```

---

#### 469. RE: [APRSSIG:2482] APRS Wkshp and Windows NT

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>  
Date: Tue, 25 Jul 95 07:16:00 cdt  
To: aprssig <aprssig@tapr.org>  
Message-ID: <3014E6F5@mailgtwy.nellis.af.mil>  
Rendered body type: text/plain

I'm not sure which one is the "confab", but I've paid for the Digital Comms Conference (w/TAPR) and made travel arrangements and ..... Specifically to get some real-time interaction on APRS... SO, if this msg about the APRS Workshop is a query about the viability of delaying the Digital Comms Conference APRS Workshop... then my vote is to keep it where it is - when it is... if this request for comment is about some other event... ignore my plea to keep things the same... I guess they are. !!! Hi Hi

BTW... I saw somebody posting here that NT Rules.... KD4KSQ maybe? well, I could sure use their E-Mail address... I'm having a real pain of a time loading it on a system at home... The third floppy just hangs the system when NTFS is loading... the hard drive and floppy drive lights both stay on.... the Documentation isn't too helpful about what the problem even might be... Thanks in advance

sadowskp@usafcrqs.nellis.af.mil  
AH6LS No Ka Oi !!!!  
-----

From: aprssig  
To: aprssig  
Subject: [APRSSIG:2482] APRS workshop  
Date: Monday, July 24, 1995 7:31PM

Well, Murphy got me this time. I have had a few responses on the upcoming APRS workshop, scheduled for 7/30 here in Arlington. That date seems to conflict nicely with the ARRL NE convention in Manchester. How about we postpone the confab a couple of weeks? Comments? Other participants?

John  
WN9T

---

#### 470. Re: [APRSSIG:2492] Re: GPS and driving...

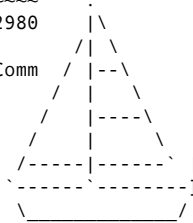
From: paul@paccomm.com  
Date: Tue, 25 Jul 95 12:16:17 UTC  
To: aprssig@tapr.org  
Message-ID: <1922@paccomm.com>

Rendered body type: text/plain

Ever heard of a head-up display? Think you can do this quite cheaply off the shelf now. Might be the cure for the police woes and maybe APRS if cheap enough (?). Think I saw something in Nuts and Volts a while back.

Hate to think about the Law suits, paperwork, etc. they must be getting in Pinellas!

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980
Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm
Don't surf the net, SAIL it!
Captain of S/V "Spindrift", Dunedin, FL.
Tall rig (58'), Winged Keel (4' 2"), full batten main
PacComm Packet Radio Systems
4413 N. Hesperides St., Tampa, FL 33614-7618
~~~~~



---

## 471. NT Loading Problems

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>  
Date: Tue, 25 Jul 1995 11:42:05 -0500 (CDT)  
To: aprssig@tapr.org, sadowskp@usafcrqs.nellis.af.mil  
Cc: CHEAD@exame2.dseg.ti.com  
Message-ID: <950725114205.2020b93e@exame2.dseg.ti.com>  
Rendered body type: text/plain

> Ref [APRSSIG:2494]  
> P Sadowski, AH6LS, asked for help in getting NT loaded

I went through loading NT on the home system a couple of weeks ago and hit a very similar problem. The fix was quite specific to my system, however. For what it is worth, here is what happened with my system.

I have a ZERO 486 DX2 66 MHz machine with both a 5.25 inch and 3.5 inch floppy drive installed. As delivered, the 5.25 drive was "A" and the 3.5 drive was "B". That worked fine. Some time later I needed the drives swapped, (3.5="A" and 5.25="B"). Turns out that the ZEOS can do a logical swap of the drives in the CMOS SETUP program. I did this and everything worked fine for more than a year. The logically swapped "A" and "B" drives worked just as expected.

Until the weekend to install NT. At the third floppy (I think - I was installing from a CD rom, but it needed several floppies to get started), the same problem happened - the system just stopped. It had an error message to the effect that the boot floppy was not accessible. After a lot of headscratching, phone calls, discussions of the ancestry of the machine, etc. the ZEOS people suggested that maybe the logical disk swap did not work under this condition, and suggested swapping the drive cables instead. I did that, undid the logical swap in the CMOS SETUP and tried again. It all worked this time and the installation proceeded OK. (Had some troubles with the Sound Blaster drivers later, but that is another story - not completely resolved yet!).

Don't know if other machines have the capability for a logical floppy drive swap, but beware - NT does not like that. Hope this helps.

73 Claude Head  
K5DTN  
chead@exame2.dseg.ti.com

---

## 472. APRS Conference

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Tue, 25 Jul 95 13:04:08 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.806691848.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

There has been a slight confusion on the APRS conferences..

The APRS workshop at the ARRL DCC In Texas has NOT CHANGED AT ALL!!!

There was a comment from WN9T about a proposed mini conference in MASSACHUSETTS that seemed to conflict with the NORTH EAST ARRL CONVENTION so he was discussing moving that.. It has NOTHING to do with the ARRL DCC conference in September in Texas..

Hope this clears everything up..

Keith Sproul, WU2Z

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services                                                 | 908 445-3695 Work       |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home       |

---

#### 473. Re: [APRSSIG:2494] RE: APRS Wkshp and Windows NT

From: potomacg@telalink.net (Mike Jackson)  
Date: Tue, 25 Jul 1995 12:27:54 -0500  
To: aprssig@tapr.org  
Message-ID: <199507251727.MAA02948@eden.telalink.net>  
Rendered body type: text/plain

I think I can help out with your NT install, as I've done quite a few of them here at work myself. The OS is kinda picky of what hardware it'll run on, and how much ram you have, ect. Leave me an e-mail at potomacg@medifax.com and I'll see if we can figure out your problem.  
Mike Jackson KD4KSQ

>BTW... I saw somebody posting here that NT Rules.... KD4KSQ maybe? well, I  
>could sure use their E-Mail address... I'm having a real pain of a time  
>loading it on a system at home... The third floppy just hangs the system  
>when NTFS is loading... the hard drive and floppy drive lights both stay  
>on.... the Documentation isn't too helpful about what the problem even  
>might be... Thanks in advance  
>  
>sadowskp@usafcrqs.nellis.af.mil  
>AH6LS No Ka Oi !!!!  
> -----

--\*\*\*\*\*--  
Mike T. Jackson KD4KSQ  
4819 Jeffery Drive potomacg@medifax.com  
Nashville, Tn 37211-4043 Mxxxxxx@aol.com  
(615) 331-2706 Home (615) 832-3490 PC  
1-800-846-9035 (138) Work

Forget Windows 95... Windows NT RULES!  
--\*\*\*\*\*--

---

#### 474. Re: [APRSSIG:2480] MAPS and thanks..!

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>  
Date: Tue, 25 Jul 1995 12:08:44 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199507251708.MAA13506@crasher2.ttgciitn.com>  
Rendered body type: text/plain

> Of note, this weekend plan to test to see if the data stream continues after  
> I exceed 99 miles an hour...Will keep you informed (look for me mobile  
> this weekend..If I drop out then you'll know first hand !)

Keep yer eyes on the road instead of the GPS stuff. And start saving up for the ticket -- how much is it for every mph over the speed limit?

--  
Ryan Tucker  
TTGCITN Communications  
rtucker@ttgciitn.com  
<http://www.netins.net/showcase/rtucker>

---

#### 475. Re: [APRSSIG:2495] Re: GPS and driving...

From: marchant@netcom.com (William Marchant)  
Date: Tue, 25 Jul 1995 11:22:11 -0700  
To: aprssig@tapr.org  
Message-ID: <199507251822.LAA19339@netcom3.netcom.com>  
Rendered body type: text/plain

Paul Evans mentioned using a heads up display as a way of combating accidents from moving maps/displays. We had a human factors researcher come talk to us about that. He thought that heads up displays caused accidents by trying to mix too much stuff in the field of view. He was convinced that a lot of military aircraft accidents are caused by this. Of course the number of accidents may be less than those caused by looking down into the cockpit of

your car to read a display. If the insurance companies get excited we may see them refuse accident coverage if you were using a display at the time... (Last time I looked at the military accident statistics, most accidents happened while the aircraft was in level flight and gradually descending into terrain. The interpretation was that the pilot was distracted by in-cockpit workloads...)

The Navy has always felt that a second crewmember is necessary in aircraft to handle the workload. Take a friend along on your foxhunts! The more the merrier!

Will

---

## 476. Garmin GPS-45 Setup

From: rbarnett@traveller.com (Rob Barnett)  
Date: Tue, 25 Jul 1995 13:28:32 -0600  
To: aprssig@tapr.org  
Message-ID: <v01510104ac3af2dd1dd1@[198.79.57.152]>  
Rendered body type: text/plain

I just recieved my GPS-45 today, ordered through West Marine. Tried to order it through E&B, but they wouldn't deal with me on the coupon (tried every way I could think of to give me the coupon discount, no luck) and they also wanted over \$30 to next day air it!!!!

I am using a MAC Powerbook 165 for mobile APRS, what is the best way to connect the Garmin Power/Data cable to a Mac Connector? Do I chop up a printer cable, or mate it to a Mac to DB25 cable??....Also, what is the pinout of the Mac connector?.....

Thanks...

Robert N. Barnett  
KE4GNN  
Assistant Secretary/Treasurer, Huntsville Amateur Radio Club  
rbarnett@traveller.com  
KE4GNN@AOL.COM

---

## 477. Re: [APRSSIG:2495] Re: GPS and driving...

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Tue, 25 Jul 1995 14:35:03 -0500  
To: aprssig@tapr.org  
Message-ID: <9507251935.AA20708@omnifest.uwm.edu>  
Rendered body type: text/plain

Ever heard of a head-up display? Think you can do this quite cheaply off the shelf now. Might be the cure for the police woes and maybe APRS if cheap enough (?). Think I saw something in Nuts and Volts a while back.

Hate to think about the Law suits, paperwork, etc. they must be getting in Pinellas!

~~~~~  
Paul,

I was talking about 1976 when we first got them in Pinellas. I would HOPE that they have learned by now.

Ozaukee County Wisconsin just now is getting in-car CRTs and so far I think we've had 6 crashes attributed to them. I am NOT a member of the Dept. here so my warnings have not been well received.

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.ENG3BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

478. Re: [APRSSIG:2500] Re: GPS and driving...

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Date: Tue, 25 Jul 1995 14:43:35 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507251943.OAA18007@crasher2.ttgciitn.com>
Rendered body type: text/plain

Someone who goes by "William Marchant" send me this...

>

> Paul Evans mentioned using a heads up display as a way of combating accidents

> from moving maps/displays. We had a human factors researcher come talk to us
> about that. He thought that heads up displays caused accidents by trying to
> mix too much stuff in the field of view. He was convinced that a lot of
> military aircraft accidents are caused by this. Of course the number of
> accidents may be less than those caused by looking down into the cockpit of
> your car to read a display. If the insurance companies get excited we may
> see them refuse accident coverage if you were using a display at the time...
> (Last time I looked at the military accident statistics, most accidents
> happened while the aircraft was in level flight and gradually
> descending into terrain. The interpretation was that the pilot was distracted
> by in-cockpit workloads...)

Another problem with heads-up displays is that your eyes have to refocus.

Maybe APRS needs a BWT mode... Brain Wave Transmission. I'm sure you can
play with the video enough to get it to send out brain waves. Of course,
the monitor might resemble your average shuttle launch...

> The Navy has always felt that a second crewmember is necessary in aircraft
> to handle the workload. Take a friend along on your foxhunts! The more the
> merrier!

If you need to do the work of two people, why not have two people? Good
logic there. :-)

--
=====
=== Ryan Tucker, God of Everything That Moves @ TTGCITN Communications ===
=== rtucker@ttgciitn.com http://www.netins.net/showcase/rtucker ===
=====

479. Re: [APRSSIG:2503] Re: GPS and driving...

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 25 Jul 1995 16:39:35 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507252139.QAA06536@solar.cs.tamu.edu>
Rendered body type: text/plain

Ryan Tucker sez:

>
> Another problem with heads-up displays is that your eyes have to refocus.

Actually, if a HUD is properly adjusted, it's set for a focal length of
infinity. So that you DON'T have to refocus to see things out the window...

73, gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

480. HUD and options / Speeding...

From: KD4EMI@aol.com
Date: Tue, 25 Jul 1995 18:42:01 -0400
To: aprssig@tapr.org
Message-ID: <950725183741_40618975@aol.com>
Rendered body type: text/plain

Instead of a HUD how about a voice synth stating speed and heading.
Also a xmit beep would be good. Seems like I am driving and am more
interested in seeing if my packets get digi'ed. Therefore, put in a extra
speaker...Listen for the audio...

#2 Re speeding > 90 MPH...Who said I was driving !!..
73 and look for me aero mobile this saturday, will see if we can
get the local gate up if anyone is interested.
Mike
KD4EMI@AOL.COM

481. Re: STS-70 APRS-SAREX Final Report

From: quarry@q.continuum.net (Chip Griffin)
Date: Tue, 25 Jul 1995 19:00:00 -0400
To: aprssig@tapr.org
Message-ID: <v01520d00ac3b265c5ab3@[199.0.52.51]>
Rendered body type: text/plain

>1) Having 150 subscribers on a LISTSERVER does not mean everyone is
>reading their mail or participating. Although numerous announcements
>were posted, I did not interrogate participants in advance for fear of
>reply-message overload. Post-event activity reports were obtained from
>only 9 individuals on the SIG.

I was interested but did not participate for many reasons. One of the
primary reasons on this occasion was the many long hours I am working to
get the power plant I work at back online ASAP! Perhaps the next SAREX
will approach when I have a better work schedule. I could have set it up
on one of my MANY Macs, but between the job and the tremendous heat we've
been having I've just been too lazy to do much of anything.

I am only sending this message so you can see that more than just the nine
are interested!

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

```
-----+-----  
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)  
griffge@nu.com         | Chip@1:320/301.0 or .1 (fido)  
emmet2@aol.com         |
```

http://q.continuum.net/~quarry/quarry_home.html

482. Re: [APRSSIG:2504] Re: GPS and driving...

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Date: Tue, 25 Jul 1995 17:52:25 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507252252.RAA25616@crasher2.ttgciitn.com>
Rendered body type: text/plain

Gerald J Creager bestowed thy blessings on /dev/hda2, copied hither:
> > Another problem with heads-up displays is that your eyes have to refocus.
>
> Actually, if a HUD is properly adjusted, it's set for a focal length of
> infinity. So that you DON'T have to refocus to see things out the window...

You learn something new every day. :-)

```
--  
=====  
=== Ryan Tucker, God of Everything That Moves @ TTGCITN Communications ===  
=== rtucker@ttgciitn.com http://www.netins.net/showcase/rtucker ===  
=====
```

483. Re: [APRSSIG:2505] HUD and options / Speeding...

From: quarry@q.continuum.net (Chip Griffin)
Date: Tue, 25 Jul 1995 19:21:21 -0400
To: aprssig@tapr.org
Message-ID: <v01520d05ac3b2bcaa161@[199.0.52.54]>
Rendered body type: text/plain

>Instead of a HUD how about a voice synth stating speed and heading.
>Also a xmit beep would be good. Seems like I am driving and am more
>interested in seeing if my packets get digi'ed. Therefore, put in a extra
>speaker...Listen for the audio...

The Mac version already partially has this ... Keith?!

>#2 Re speeding > 90 MPH...Who said I was driving !!!

I thought it was 90Kts?!?

>73 and look for me aero mobile this saturday, will see if we can
>get the local gate up if anyone is interested.

Doubt I'll hear you from here ... especially with no local HF gates ...

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

```
-----+-----  
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)  
griffge@nu.com         | Chip@1:320/301.0 or .1 (fido)  
emmet2@aol.com         |
```

http://q.continuum.net/~quarry/quarry_home.html

484. Re: [APRSSIG:2479] GPS mobile with Push Button

From: quarry@q.continuum.net (Chip Griffin)
Date: Tue, 25 Jul 1995 19:21:26 -0400
To: aprssig@tapr.org
Message-ID: <v01520d06ac3b2c13b27f@[199.0.52.54]>
Rendered body type: text/plain

>On Mon, 24 Jul 1995, Chip Griffin wrote:
>
>> I'm going to the ARRL convention, with my laptop and GPS but I won't,
>> be able to help you until my PicoPacket comes (a few weeks away) because my
>> laptop only has a single serial port.
>
>APR REPLY: Dont overlook the simple SPDT push button switch to switch
>the serial port RXD line to either the GPS or TNC. This allows you to
>operate APRS Mobile in SPM mode and to update your position each time you
>press the button..

Thought about it, but it has two drawbacks I can see.

1) Have to wire it for the tnc and I don't know what that will entail, so if I wire it for the switch this weekend I will have to rewire it when the tnc arrives ... that is too much work for such a little return.

2) I have had problems in the past with switches in serial ports, seems they like to loose synch (or so it seems) and not want to get back in without (a) restarting the Mac or (b) restarting the serial device or even (c) restarting both! This may have to do with hardware handshaking that I usually use ...

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@nlokk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

http://q.continuum.net/~quarry/quarry_home.html

485. Re: [APRSSIG:2445] APRS Activity in the SouthEast

From: BenW55R@aol.com
Date: Tue, 25 Jul 1995 19:40:23 -0400
To: aprssig@tapr.org
Message-ID: <950725194022_40667150@aol.com>
Rendered body type: text/plain

In reply to aprs activity in other areas, here in the Texas panhandle activity is growing rapidly. We have 6 -8 stations on with a HF/VHF gateway up at the NWS office. We are still using 145.01, but hope to have our own net up on .79 soon as activity increases. Also hope to be putting out some weather data from the NWS when we get up on there LAN. We willll have prtty much full access to there info as an ARES group. The primary purpose for APRS in the area started out for me trying to keep track of storm spotters. Any help in this usage of APRS would be helpful. 73 es gud DX Ben W55R

486. Re: [APRSSIG:2497] APRS Conference

From: jgarrett@world.std.com (John Garrett)
Date: Tue, 25 Jul 1995 19:17:05 -0400
To: aprssig@tapr.org
Message-ID: <njN5mmPA4w22065yn@World.std.com>
Rendered body type: text/plain

"
" There has been a slight confusion on the APRS conferences..
"
" The APRS workshop at the ARRL DCC In Texas has NOT CHANGED AT ALL!!!
"
" There was a comment from WN9T about a proposed mini conference in MASSACHUSETTS
" that seemed to conflict with the NORTH EAST ARRL CONVENTION so he was
" discussing moving that.. It has NOTHING to do with the ARRL DCC conference in
" September in Texas..
"
" Hope this clears everything up..
"
" Keith Sproul, WU2Z
"
"

Phew. That's right! What _HE_ said!
John
WN9T

487. Re: [APRSSIG:2506] Re: STS-70 APRS-SAREX Final Report

From: BenWS5R@aol.com
Date: Tue, 25 Jul 1995 19:59:43 -0400
To: aprssig@tapr.org
Message-ID: <950725195942_40679765@aol.com>
Rendered body type: text/plain

Sorry my report is late, but lost my computer for a few days due to a power surge!. I did send beacons out on most 0630-0730 cdt passes over Texas. I did recieve packet coming back from the shuttle, but no APRS. So there were 10 sending data. 73 Ben

488. APRS72

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 25 Jul 1995 20:07:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950725195844.8605C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

This version results from the SAREX experiment and the upcoming Persieds meteor shower. Salient features are:

- * Meteor Shower mode using GdSq in TO address
- * New SPACE mode using GdSq in TO address
- * Fixes extra cmd:'s in posits and Latest

For this MScat event to be successful, we need EVERYONE. It is mostly AUTOMATED, so all you have to do is set it up, and check it occasionally. EVERYONE has a chance at seeing a MS posit, and the HIGH POWER guys have a chance at being seen.

Please be sure SOMEONE in each APRS net has a continuing BRIEF bulletin announcing the NATIONWIDE Meteor Scatter Event 11-15 Aug.

489. Beeps in APRS

From: sneaker@mindspring.com (Chris Jernigan)
Date: Tue, 25 Jul 1995 21:03:27 -0400
To: aprssig@tapr.org
Message-ID: <199507260104.VAA24974@dylan.mindspring.com>
Rendered body type: text/plain

I am trying to run APRS 24X7 in my room.. Most people leave APRS running am i correct?
I have noticed a Beeps option in the programs under ALT-s,other...
if I use this option i still hear occasional beeps thru the speaker for aprs updates..
Is there a way to make the program totally silent for running at night..
short of pulling the speaker
wire out on your PC?
OR am I missing something and don't need to run the program fulltime..
thanx
cj-KC4KCN (Marietta,Ga.)

490. unsubscribing

From: Victor Fraenckel <victorf@wizvax.wizvax.net>
Date: Tue, 25 Jul 1995 22:01:52 -0400 (EDT)
To: aprs message place <aprssig@tapr.org>
Message-ID: <Pine.LNX.3.91.950725215751.20993A-100000@wizvax.wizvax.net>
Rendered body type: text/plain

i have tried all the usual methods of unsubscribing from this maillist without success. can anyone tell me how to do this?

the main problem is that when i subscribed my address was:

victorf@wizvax.com

since then the address has changed to:

victorf@wizvax.net

S00000 i always get the message that i am not currently subscribed.

any advice would be appreciated

regards
vic fraenckel

|Windsway Company | Home of the WindReader Electronic Theodolite |
|victorf@wizvax.net | Read the WIND |

491. Re: [APRSSIG:2506] Re: STS-70 APRS-SAREX Final Report

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Tue, 25 Jul 1995 22:08:21 -0500
To: aprssig@tapr.org
Message-ID: <199507260309.WAA08275@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

>I am only sending this message so you can see that more then just the nine
>are interested!
>
>
>Chip Griffin

Personally I think it wasn't that great of an orbit for the greater part of
the US. I monitored the whole time and got ZERO packets in Iowa. AOS was
very short and ELV was down on the horizon damn near. Plus I think the
notice was way to short along with some of the SPACE mode problems.

Though it's a great idea and one I hope will be a regular on all
SAREX equiped flights. This is not a flame! :-) just MHO

barrett

492. Delta Aquarids MS Info

From: mark@tetherless.com (Mark Oppenheim)
Date: Tue, 25 Jul 1995 20:40:02 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199507260340.UAA24947@gorgor.pa.tetherless.com>
Rendered body type: text/plain

"Everything that you ever wanted to know about the upcoming Meteor Shower
and were afraid to ask" can be found at:

http://wums.wustl.edu/~kronk/delta_aquarids.html

MS specific info:

<http://wums.wustl.edu/~kronk/index.html>

493. ARGH! bug in 72

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 26 Jul 1995 00:07:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950726000517.8982A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Donno details, but MAP crashes everytime when doing a MAP-BORDERS
command when the MAPLIST.WES is loaded.

Ill check it out. Inna meantime, DO NOT DOWNLOAD 72.

494. USGS mapping program and data

From: DEAN VALENSKI <VALENSKI@IOMEGA.COM>
Date: Tue, 25 Jul 1995 21:10:18 -0600
To: aprssig@tapr.org
Message-ID: <s0157a14.032@IOMEGA.COM>
Rendered body type: text/plain

I've seen a few mentions regarding a mapping program and
companion data that is apparently obtainable from the
USGS...I was wondering how one goes about getting it -
what is the address, and is the data down-loadable or do
you have to order it (on CD-ROM)? How difficult is it to
make these maps? Does the data cover the entire U.S. or
is it broken down into regions?
More info would be greatly appreciated. Either e-mail me
privately or post it to the sig if others might be interested..

Thanks!
Dean

495. [APRSSIG:2512] Re: STS-70 APRS-SAREX Final Report

From: Appleton <S=Appleton%\$=Appleton%G=K%I=P%TEXACO@mcimail.com>
Date: Wed, 26 Jul 95 01:21 EST
To: APRSSIG <aprssig@tapr.org>
Message-ID: <05950726062150/0004365529D41X4@MCIMAIL.COM>
Rendered body type: text/plain
To: 95157013--P0

*** Reply to note of 07/26/95 00:10
From: K.P. Appleton CPI Rumbai, Indonesia
____ Phone -- CTN 8-46-42142 (Work); 8-46-43088 (Home)
____ TEXNET 8-45-42142 (Work); 8-45-43088 (Home)
Subject: [APRSSIG:2512] Re: STS-70 APRS-SAREX Final Report
Late report - I sent packets (and listened) on 5 passes - heard
only 1 packet (not APRS) -YB5AQG

>From Keith P. Appleton
92221132--P0 or XKAPPL at X400 or EXPKPA at VMCP11
Internet Address: SN=APPLETON%G=K%I=P%TEXACO@mcimail.com

496. GP-45 functions

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 26 Jul 95 08:13:19 EDT
To: aprssig@tapr.org
Message-ID: <199507261214.IAA11988@gold.interlog.com>
Rendered body type: text/plain

While I was in the US for a vacation, I ordered my GP-45 from E and B,
and had them ship it to me in Iowa (home QTH Ontario)...no problems

I found that if you hold the Quit button down and turn the unit on, it
resets it, so be careful.

If you hold the enter down, it will give you a test menu including
temp, internal and external battery voltage and more.

73...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

497. Re: [APRSSIG:2519] USGS mapping program and data

From: DKAPLAN@netins.net (David Kaplan)
Date: Wed, 26 Jul 1995 08:35:35 -0500
To: aprssig@tapr.org
Message-ID: <199507261335.IAA14702@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

>I've seen a few mentions regarding a mapping program and
>companion data that is apparently obtainable from the
>USGS...I was wondering how one goes about getting it -
>what is the address, and is the data down-loadable or do
>you have to order it (on CD-ROM)? How difficult is it to
>make these maps? Does the data cover the entire U.S. or
>is it broken down into regions?
>More info would be greatly appreciated. Either e-mail me
>privately or post it to the sig if others might be interested..

>
>Thanks!
>Dean
>
>Valenski@iomega.com
>
>

Full instruction are in the APRS documentation in the "M" for Map section.
I have been making maps for the last week using this technique and it works
great. Any problems or question give me an E-Mail shout. I have sent a
message to the author of the 100K conversion program about looking at using
I-Net data to make those maps also.

Dave

498. aprs72a fixes bug in 72

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 26 Jul 1995 12:23:21 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950726121932.13319F-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

The doggone MAPLIST.WES had an extra blank line at the end! That crashes version 72 when you do a MAPS-BORDERS commnd!

So not only did I fix the MAPLIST.WES file, but also changed APRS 72a so that it would NOT crash on unknown lines in the file...

499. Re: Re: GPS and driving...

From: dbbrumm@mtu.edu (Doug Brumm)
Date: Wed, 26 Jul 1995 14:42:48 -0400
To: aprssig@tapr.org
Message-ID: <199507261842.0AA05164@pobox.ee.mtu.edu>
Rendered body type: text/plain

>Another problem with heads-up displays is that your eyes have to refocus.

Not if the system is properly implemented. The lack of a need to refocus is one of the primary objectives of HUDs (at least the ones I am familiar with).

Doug Brumm N800N dbbrumm@mtu.edu
Michigan Tech Univ

500. RE: [APRSSIG:2513] APRS72

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Wed, 26 Jul 95 11:04:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <30167059@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

For Dummies like me... who are having a real problem getting up on the air... (Hey, I've been out of the country for 7 years... cut me some slack) and trying to come back up to speed... and a zillion other excuses... How about a Detailed HANDHOLD instruction E-Mail so I can play in this one... I mean for a Dummy (I'm truly too too educated).... If it's just me monitoring a certain freq... ok... but if I can help by putting an antenna in a particular az - el then ok... and well... you get the drift... including what I should do in my TNC... or radio... or whatever..

Thanks in advance

sadowskp@usafcrqs.nellis.af.mil

>From: aprssig
>To: aprssig
>Subject: [APRSSIG:2513] APRS72
>Date: Tuesday, July 25, 1995 7:17PM

>For this MScat event to be successful, we need EVERYONE. It is mostly >AUTOMATED, so all you have to do is set it up, and check it occasionally. >EVERYONE has a chance at seeing a MS posit, and the HIGH POWER guys have >a chance at being seen.

501. Meteor shower FAQ

From: fehner@cts.com (Barbara Fehner)
Date: Wed, 26 Jul 95 12:59 PDT
To: aprssig@tapr.org
Message-ID: <m0sbCc2-0002RIC@kickme.cts.com>
Rendered body type: text/plain

I found this on the rec.radio.space newsgroup.

Barbara
[Attachment: METEOR.FAQ; text/plain; 9,634 bytes]

502. Re: [APRSSIG:2525] RE: APRS72

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 26 Jul 1995 17:25:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950726171112.16827E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 26 Jul 1995, Sadowski,P CPT USAF CRQS/RQEN wrote:
> For Dummies like me...
> How about a Detailed HANDHOLD instruction for Meteor Scatter?

APRS SET UP FOR METEOR SHOWER 11 to 15 AUGUST.

1) Since the country is divided up into 4 quadrants at 39 LAT and 95 LONG, then point your beam toward an APRS population center in one of the other 3 quadrants that is about 500 to 1200 miles distant.
2) Run highest power
3) RUn APRS version 7.2 or later and use the ALT-S-MODES-mscaT command to set meteor mode. Choose 100% duty cycle if you can hear NO OTHER stations direct, or if you can coordinate with other locals so that your BEAM headings are not pointing to the same areas. Dont select below about 50% unless there are several of you all running comparable power and all pointing to the same area.

Thats it. Check the screen every few hours and see if you see anyDX!

In preparation, be sure that someone in your local APRS network is beaconing a BULLETIN announcing the upcoming event and be sure that any GATEways in the area will be turned off.

During the event everyone should set their paths to NONE! We dont want any digipeating!

503. Map file format question

From: jra@ag9v.ampr.org
Date: Wed, 26 Jul 1995 17:13:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199507262113.RAA02474@ag9v.ampr.org>
Rendered body type: text/plain

Is "0,0" a valid data point in a map file, or is it used only to identify the beginning of a new feature?

John

--

John Ackermann AG9V
Internet: jra@ag9v.ampr.org
Packet: AG9V@N8ACV.#DAY.OH.USA

504. Maps for Tennessee

From: moyers@ibm.net
Date: Wed, 26 Jul 95 23:34:48
To: aprssig@tapr.org
Message-ID: <9507270640.AA0069@slip3-219.fl.us.ibm.net>
Rendered body type: text/plain

APR; Bob, I have uploaded the file TNMAPS1.ZIP to the APRSSIG upload area here on tapr. The file contains Maplist.TN, TNmidet.MAP, TNneast.map, TNseast.map, TNnmid.map. The zip does not have path info in it, so when you unzip the file copy the files to their correct paths. Was going to wait til I had the MEMPHIS area done, but due to several requests for the file and time constraints on this end decided to send it now.
73 de John N4QEA @ N4QEA.#METN.TN.USA.NA
moyers@ibm.net

505. Re: [APRSSIG:2437] Persieds METEOR shower questions

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Wed, 26 Jul 95 23:41:43 EDT
To: aprssig@tapr.org
Message-ID: <9507270341.AA22880@umed.med.miami.edu>
Rendered body type: text/plain

Bob, a couple of questions...

Since I'm running MacAPRS, I'd like a few details about what the meteor scatter setting in APRS actually accomplishes, so that I can duplicate it as closely as possible.

For the grid square message, is the format just '[EL94gp]'? Will that display OK on the PC version, and does the capitalizxation matter?

Count me in for this experiment, I'll have two stations operating, one a 13B3 pointing towards the NE (my FL Keys QTH) and the other an 8db ground plane (from Miami) both running 170 watts.

73 de Steve

506. Help Compaq Aero/APRS

From: DDOBBINS@aol.com
Date: Thu, 27 Jul 1995 01:28:17 -0400
To: aprssig@tapr.org
Message-ID: <950727012816_41733366@aol.com>
Rendered body type: text/plain

Pls respond back to me "ddobbins@aol.com" and not the SIG. Thanks.
I just purchased a Compaq Contura Aero 4/33C, added another 4MB ram and spent four hours loading it from older B&W laptop. Alas, color portable APRS/GPS mobile, or so I thought. Having a problem getting APRS to boot. Here's what happens: I'm starting APRS from a DOS menu (DA 5.1), the map comes up and note "initializing TNC", then the laptop locks up. I have to power off to reboot. Didn't do this w/other laptop, only on the Contura. Figuring perhaps a serial port config problem, I checked it out and it appears OK. When I use Pacterm or PaKet, the cable/port/TNC all work normal. Only APRS doesn't work. Here's the other quirk: APRS is squeezed on the top and bottom of the screen, about 1" on both top/bottom. Sides are OK. That's it. Comments or suggestions pls. Otherwise I'm gonna pack up the Contura and take it back.... Too bad, I got it at a great price, less than \$1k. Dave, WH6YC.

507. STS-70 packet Heard list (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 27 Jul 1995 07:51:03 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507271251.HAA29937@solar.cs.tamu.edu>
Rendered body type: text/plain

As advertised, here's the QRZ list from the STS-70 TNC and computer database. Obviously, this is not a comprehensive listing, When the TNC is not connected to the computer, ie., completely autonomous, we can easily lose some stations in the list. Anyone see anything familiar?

73, gerry

Carman, Gilbert L. sez:
> Subject: STS-70 packet Heard list
> Date: Wed, 26 Jul 95 15:41:00 cdt
>
>
>
> STS-70 SAREX packet Heard list
>
> CALL DATE TIME
> -----
> 1. 4X4LF 07/18/95 03:43:36
> 2. 7J1ADJ 07/15/95 23:03:14
> 3. 7J6CAL 07/16/95 00:40:57
> 4. 7J6CBJ 07/16/95 00:40:39
> 5. 7J6CBL 07/16/95 02:14:14
> 6. 7J6CBR 07/16/95 00:39:34
> 7. 7K3NNC 07/16/95 21:42:23
> 8. 7L1FPU 07/15/95 23:05:18
> 9. 7L2AEA 07/18/95 20:20:31
> 10. 7L2CAM 07/15/95 23:07:40
> 11. 7N1JVW 07/16/95 21:40:12
> 12. AA0NG 07/16/95 12:32:37
> 13. AA0TB 07/20/95 11:37:50
> 14. AA4HX 07/20/95 08:21:02
> 15. AA5OQ 07/14/95 15:28:30
> 16. AA6NP 07/14/95 17:00:00
> 17. AC6EG 07/16/95 12:30:47
> 18. AD4OR 07/16/95 12:37:50
> 19. AH6LE 07/15/95 20:13:12
> 20. AH6LO 07/14/95 15:13:40
> 21. AH6MC 07/16/95 13:57:07
> 22. AJ6A 07/14/95 16:59:19
> 23. BV1AF 07/15/95 23:03:10
> 24. CE3XK 07/17/95 22:26:08
> 25. CT1EAT 07/16/95 06:31:50
> 26. F10KN 07/16/95 08:10:11
> 27. GFNSW 07/16/95 11:03:50
> 28. HS0TSG 07/19/95 01:00:43
> 29. HS1JAN 07/19/95 04:10:02
> 30. HS1PLN 07/20/95 01:06:25
> 31. HS50A 07/20/95 01:06:25
> 32. HS6KI 07/18/95 21:46:48
> 33. JA1GDE 07/18/95 21:55:58

>	34.	JA2BGX	07/15/95	23:07:29
>	35.	JA2JOJ	07/15/95	23:06:55
>	36.	JA2LNU	07/16/95	18:29:47
>	37.	JA7TQK	07/15/95	23:10:00
>	38.	JE2AQQ	07/15/95	23:07:13
>	39.	JF1OD0	07/17/95	21:45:38
>	40.	JG0VCM	07/15/95	23:09:16
>	41.	JH0TOG	07/16/95	21:40:44
>	42.	JH2GEC	07/15/95	23:08:06
>	43.	JH2NIT	07/15/95	23:07:38
>	44.	JH2VHL	07/15/95	23:08:24
>	45.	JH3FDA	07/18/95	21:53:31
>	46.	JH4DHX	07/16/95	21:39:14
>	47.	JI2YIQ	07/15/95	23:07:51
>	48.	JI7CPW	07/17/95	21:47:11
>	49.	JJ2RYW	07/16/95	00:42:45
>	50.	JM2EVU	07/15/95	23:09:14
>	51.	JM2EVV	07/18/95	21:54:03
>	52.	JO2QOT	07/17/95	20:10:25
>	53.	JR6SRT	07/17/95	21:42:56
>	54.	JR6SRU	07/17/95	21:42:29
>	55.	JS6KQL	07/16/95	00:39:16
>	56.	K0KJ	07/15/95	15:37:52
>	57.	K1EA	07/16/95	11:07:34
>	58.	K1GQ	07/19/95	08:17:57
>	59.	K3NL	07/19/95	08:17:12
>	60.	K4ADK	07/16/95	12:35:07
>	61.	K5JW	07/14/95	17:02:25
>	62.	K5KT	07/14/95	15:24:59
>	63.	K5LLL	07/20/95	08:18:54
>	64.	K5VAS	07/15/95	15:36:30
>	65.	K5YCP	07/15/95	15:40:29
>	66.	K6AAW	07/14/95	18:32:55
>	67.	K6EX0	07/14/95	15:27:47
>	68.	K6JY0	07/16/95	10:54:48
>	69.	K6LLK	07/16/95	14:06:53
>	70.	K6OZL	07/17/95	15:48:00
>	71.	K6QPZ	07/18/95	12:45:18
>	72.	K6YB	07/18/95	12:43:57
>	73.	K8NA	07/20/95	08:21:40
>	74.	K9MK	07/16/95	11:01:28
>	75.	K9MWM	07/15/95	14:01:36
>	76.	KA3FMO	07/19/95	08:18:03
>	77.	KA4CHT	07/19/95	08:16:26
>	78.	KA4IWG	07/19/95	08:14:36
>	79.	KA4YQI*	07/19/95	08:13:14
>	80.	KA5SFD	07/18/95	12:50:04
>	81.	KA6PF	07/16/95	00:40:14
>	82.	KA6UCD	07/14/95	18:33:15
>	83.	KA7FNQ	07/15/95	15:35:58
>	84.	KB5JRA	07/15/95	14:05:11
>	85.	KB5YHR	07/18/95	12:48:45
>	86.	KB9DD	07/14/95	18:34:29
>	87.	KC4DY	07/19/95	11:25:42
>	88.	KC4HW*	07/16/95	15:49:13
>	89.	KC4NHB	07/14/95	15:32:06
>	90.	KC4UU0	07/20/95	06:47:38
>	91.	KC4YEJ	07/14/95	15:33:25
>	92.	KC5BFZ	07/15/95	15:39:53
>	93.	KC5CP	07/18/95	12:48:46
>	94.	KC5EJK	07/15/95	15:39:53
>	95.	KC5JPG	07/16/95	12:36:03
>	96.	KC5JW0	07/16/95	12:36:16
>	97.	KC5NLS	07/15/95	15:36:05
>	98.	KC6BCW	07/19/95	14:26:47
>	99.	KC8MK	07/16/95	11:03:30
>	100.	KD4BNM	07/16/95	09:25:46
>	101.	KD4HJM	07/16/95	12:42:39
>	102.	KD4HSL	07/16/95	12:35:54
>	103.	KD4JIU	07/19/95	06:39:08
>	104.	KD4NSJ	07/15/95	15:41:54
>	105.	KD4SFF	07/16/95	12:37:01
>	106.	KD4UPF	07/14/95	15:34:03
>	107.	KD4VAB	07/19/95	06:40:33
>	108.	KD4YBL	07/16/95	12:38:59
>	109.	KD6CML	07/14/95	16:59:21
>	110.	KD6DUR	07/16/95	14:05:47
>	111.	KD6HPX	07/15/95	15:35:17
>	112.	KD6MSM	07/16/95	14:05:56

> 113.	KD6NER	07/16/95	14:06:39
> 114.	KD6NEX	07/17/95	14:14:50
> 115.	KD6NZW	07/14/95	15:23:06
> 116.	KD6OYU*	07/19/95	14:28:23
> 117.	KD6RIC	07/18/95	12:44:45
> 118.	KD6VXJ	07/14/95	16:59:17
> 119.	KD6YZP	07/14/95	16:59:49
> 120.	KD9BE	07/14/95	15:29:27
> 121.	KE2AY	07/19/95	08:17:46
> 122.	KE4AR	07/14/95	17:09:11
> 123.	KE4BMR	07/14/95	15:33:13
> 124.	KE4HJV	07/14/95	15:34:03
> 125.	KE4OZD	07/16/95	07:51:12
> 126.	KE4QIZ	07/16/95	09:26:55
> 127.	KE4UAQ	07/16/95	12:36:52
> 128.	KE6LSN	07/14/95	16:59:54
> 129.	KE7DX	07/18/95	12:46:25
> 130.	KF2O	07/16/95	11:07:43
> 131.	KF7E	07/14/95	17:02:44
> 132.	KF9WW	07/18/95	12:51:30
> 133.	KG3N	07/16/95	12:40:40
> 134.	KG4TM	07/17/95	07:59:27
> 135.	KG5IT	07/14/95	15:32:29
> 136.	KG5ND	07/16/95	15:48:00
> 137.	KG5OA	07/15/95	14:01:22
> 138.	KI3V	07/16/95	15:42:03
> 139.	KI4FK	07/16/95	12:36:09
> 140.	KI5VV	07/18/95	12:51:53
> 141.	KI5XP*	07/17/95	14:19:24
> 142.	KJ4PV	07/16/95	12:40:58
> 143.	KJ4ZZ	07/16/95	09:25:04
> 144.	KJ6HO	07/15/95	15:33:13
> 145.	KJ6QW	07/19/95	14:26:57
> 146.	KK2L	07/16/95	12:37:03
> 147.	KK4IY	07/16/95	12:39:48
> 148.	KK5DO	07/15/95	14:05:29
> 149.	KK6BY	07/18/95	12:44:26
> 150.	KK6KQ	07/16/95	14:05:37
> 151.	KM6K	07/20/95	09:48:57
> 152.	KM6LM	07/16/95	14:07:48
> 153.	KM6LM*	07/16/95	10:55:30
> 154.	KM6LP	07/16/95	12:30:08
> 155.	KN4IW	07/19/95	08:14:46
> 156.	KN6VQ	07/19/95	16:01:01
> 157.	KO4GA	07/14/95	17:10:23
> 158.	KO4HD	07/16/95	09:26:03
> 159.	KO6ON	07/14/95	17:01:03
> 160.	KP4BJD	07/14/95	15:35:40
> 161.	KP4ECL	07/16/95	07:49:56
> 162.	KP4SQ	07/15/95	14:10:52
> 163.	KQ2V	07/16/95	12:39:42
> 164.	KQ4AV	07/15/95	14:05:47
> 165.	KS4KP	07/14/95	15:33:21
> 166.	KW2D	07/16/95	12:42:08
> 167.	KW7E	07/16/95	14:05:15
> 168.	KY0A	07/16/95	15:44:43
> 169.	KZ5Q	07/20/95	08:20:31
> 170.	LW1EXU	07/14/95	20:29:32
> 171.	LW9EPB	07/15/95	20:41:55
> 172.	N0FYI	07/17/95	14:20:35
> 173.	N0KIR	07/16/95	10:59:02
> 174.	N0NTW	07/15/95	14:04:25
> 175.	N0ST	07/16/95	14:07:24
> 176.	N1DL		
> 177.	N1NFC	07/16/95	12:37:53
> 178.	N2BRG	07/16/95	09:24:49
> 179.	N2CQR	07/16/95	12:43:20
> 180.	N2NRD	07/16/95	12:41:53
> 181.	N2UME	07/16/95	12:39:59
> 182.	N3NRV	07/19/95	08:16:58
> 183.	N3QYA	07/18/95	12:52:27
> 184.	N4AA	07/19/95	08:14:43
> 185.	N4AIY	07/14/95	15:33:15
> 186.	N4DSS*	07/17/95	15:54:55
> 187.	N4ENV	07/15/95	15:41:19
> 188.	N4PDB	07/15/95	15:42:26
> 189.	N4QWF	07/16/95	12:39:30
> 190.	N4TY	07/20/95	11:34:14
> 191.	N4XGI	07/16/95	12:40:44

> 192.	N4ZQ	07/15/95	14:06:10
> 193.	N5AHD	07/17/95	09:30:03
> 194.	N5EX	07/18/95	12:49:31
> 195.	N5HAJ	07/14/95	15:28:37
> 196.	N5HRG	07/16/95	11:01:00
> 197.	N5JUW	07/16/95	15:45:58
> 198.	N5JXS	07/15/95	15:40:11
> 199.	N5LPI	07/14/95	15:30:55
> 200.	N5UQT	07/16/95	12:34:36
> 201.	N5UR	07/20/95	11:31:08
> 202.	N5VZQ	07/20/95	11:26:16
> 203.	N5WSB	07/19/95	08:08:52
> 204.	N5XDF	07/16/95	12:33:04
> 205.	N5ZNL	07/14/95	15:31:48
> 206.	N6HL	07/14/95	15:24:48
> 207.	N6JLH	07/15/95	13:57:23
> 208.	N6JMQ	07/16/95	12:31:15
> 209.	N6QEK	07/14/95	15:24:14
> 210.	N6RFZ	07/19/95	14:26:08
> 211.	N6TVZ	07/15/95	13:59:01
> 212.	N6UEN	07/16/95	12:26:40
> 213.	N6VKB	07/15/95	15:31:36
> 214.	N6VR	07/19/95	14:28:54
> 215.	N6YRU	07/18/95	12:44:35
> 216.	N7FUM	07/15/95	14:00:10
> 217.	N7QQ	07/14/95	15:24:38
> 218.	N7UFT	07/15/95	14:01:55
> 219.	N7ZEV	07/15/95	15:35:48
> 220.	N8AAQ	07/18/95	12:53:04
> 221.	N8DEU	07/18/95	12:53:02
> 222.	N8FXF	07/20/95	11:34:15
> 223.	N80XH	07/19/95	08:14:46
> 224.	N9AB	07/15/95	14:03:30
> 225.	N90ZU	07/15/95	14:04:50
> 226.	N9PKI	07/15/95	14:04:06
> 227.	ND4Y	07/19/95	08:14:44
> 228.	ND6G	07/19/95	16:02:18
> 229.	NF6E	07/16/95	10:55:53
> 230.	NF6L	07/17/95	14:12:44
> 231.	NH6RZ	07/16/95	18:44:11
> 232.	N04J	07/15/95	09:20:13
> 233.	NS4W		
> 234.	NU5V	07/17/95	15:55:04
> 235.	OA4CK	07/16/95	03:00:48
> 236.	OA4DAU	07/18/95	03:17:14
> 237.	OA4PQ	07/19/95	01:44:39
> 238.	PP5HP	07/17/95	22:32:31
> 239.	PT2TD	07/19/95	00:15:16
> 240.	PY1DGV	07/17/95	00:04:08
> 241.	PY2EOB	07/15/95	22:19:21
> 242.	PY2GNU	07/15/95	22:17:33
> 243.	PY2KV	07/15/95	22:19:18
> 244.	PY2OV	07/16/95	01:29:26
> 245.	PY2RKB	07/15/95	22:17:55
> 246.	PY3ADQ	07/19/95	21:17:42
> 247.	PY4LF	07/17/95	00:06:38
> 248.	V73CA	07/16/95	00:51:46
> 249.	VE1MTT	07/16/95	11:08:16
> 250.	VK1ZQR	07/16/95	07:16:33
> 251.	VK2BTS	07/17/95	04:11:01
> 252.	VK2DOR	07/16/95	07:14:29
> 253.	VK2EYI	07/19/95	04:24:23
> 254.	VK2QN	07/18/95	07:30:24
> 255.	VK2VN	07/16/95	07:12:29
> 256.	VK2WDH	07/16/95	12:03:24
> 257.	VK2YLO	07/17/95	05:46:19
> 258.	VK2ZW	07/20/95	03:02:01
> 259.	VK3DEM	07/17/95	05:45:13
> 260.	VK3JDG	07/16/95	08:50:38
> 261.	VK3KOS	07/16/95	07:13:28
> 262.	VK3ST	07/18/95	07:31:34
> 263.	VK3TMP	07/18/95	10:41:00
> 264.	VK3YIC	07/16/95	08:47:29
> 265.	VK4SN*	07/18/95	09:05:52
> 266.	VK4WIP*	07/18/95	09:06:05
> 267.	VK4ZGF	07/17/95	09:01:00
> 268.	VK5ZWI	07/16/95	11:57:23
> 269.	VK6DM	07/14/95	14:49:52
> 270.	VK6GN	07/16/95	11:54:48

> 271.	VK6ZLK	07/16/95	13:27:37
> 272.	VK8CR	07/16/95	05:30:30
> 273.	W0U0*	07/16/95	15:44:26
> 274.	W1RM	07/20/95	08:25:09
> 275.	W2LRJ	07/16/95	09:24:47
> 276.	W2RS	07/16/95	12:40:14
> 277.	W3CSL	07/16/95	14:11:44
> 278.	W4FWD	07/15/95	09:20:13
> 279.	W4NMK	07/15/95	14:07:22
> 280.	W5AH	07/19/95	08:09:23
> 281.	W5GB	07/19/95	08:08:51
> 282.	W5GEL	07/16/95	12:33:51
> 283.	W5HUQ	07/14/95	17:10:55
> 284.	W5PLN	07/19/95	08:10:29
> 285.	W5RKN	07/14/95	15:27:39
> 286.	W5RRR	07/18/95	12:52:49
> 287.	W5TEX	07/16/95	15:45:23
> 288.	W6BL	07/14/95	16:59:04
> 289.	W6BME	07/14/95	18:32:45
> 290.	W6DPD	07/17/95	17:22:02
> 291.	W6EKK	07/15/95	15:34:26
> 292.	W6MJE	07/14/95	16:59:24
> 293.	W7GZ	07/16/95	12:32:47
> 294.	W7US	07/14/95	15:25:26
> 295.	W8LIQ	07/16/95	10:59:26
> 296.	W9HAD	07/15/95	14:03:51
> 297.	WA2N	07/16/95	12:36:49
> 298.	WA3ELA	07/16/95	14:06:07
> 299.	WA3YVN	07/16/95	15:49:14
> 300.	WA4ECA	07/16/95	14:13:23
> 301.	WA4LZR	07/18/95	12:55:00
> 302.	WA4ZEF	07/14/95	15:33:26
> 303.	WA5FRF	07/18/95	12:52:05
> 304.	WA5MYI	07/15/95	14:07:31
> 305.	WA5NOM	07/16/95	09:24:02
> 306.	WA5OUD	07/14/95	15:24:37
> 307.	WA5PIE	07/15/95	14:03:10
> 308.	WA6IEO	07/14/95	15:24:52
> 309.	WA6LIE	07/14/95	15:22:53
> 310.	WA6LXB	07/18/95	12:43:46
> 311.	WA6RIK	07/16/95	14:04:26
> 312.	WA6YKG	07/18/95	12:47:23
> 313.	WA6ZJC	07/16/95	10:55:52
> 314.	WB0ISW	07/16/95	15:43:43
> 315.	WB4APR	07/16/95	12:40:41
> 316.	WB4FIN	07/16/95	12:35:55
> 317.	WB4FNH	07/15/95	09:19:56
> 318.	WB5FBS	07/14/95	15:32:05
> 319.	WB5LMJ	07/18/95	12:54:40
> 320.	WB5TDD	07/16/95	15:45:58
> 321.	WB5VZL	07/20/95	11:29:18
> 322.	WB6BDY	07/14/95	18:33:22
> 323.	WB6LLO	07/14/95	17:01:02
> 324.	WB6UCD	07/14/95	15:27:35
> 325.	WB6WMW	07/14/95	16:57:58
> 326.	WB9AWX	07/14/95	15:24:25
> 327.	WB9UQE	07/16/95	12:36:49
> 328.	WC5P	07/16/95	11:01:47
> 329.	WC5P*	07/16/95	14:11:44
> 330.	WD4AHZ	07/15/95	14:06:54
> 331.	WD4LYV	07/15/95	14:07:51
> 332.	WD5F	07/16/95	10:58:33
> 333.	WD6EFM	07/14/95	15:23:48
> 334.	WD6GYU	07/14/95	15:23:50
> 335.	WD8JKV	07/19/95	08:09:24
> 336.	WD8KRV	07/14/95	17:03:42
> 337.	WH6AMX	07/15/95	15:41:15
> 338.	WH6CTC	07/18/95	11:01:15
> 339.	WH6IC	07/19/95	12:42:41
> 340.	WH6KO	07/17/95	18:50:39
> 341.	WH6LR	07/16/95	12:22:10
> 342.	WH6VH	07/16/95	20:19:59
> 343.	WP4LOB	07/16/95	12:42:43
> 344.	WP4MWK	07/15/95	15:47:16
> 345.	WQ5G	07/20/95	11:27:51
> 346.	WU6T	07/15/95	15:33:29
> 347.	XE1KK	07/15/95	14:05:19
> 348.	XE2M	07/19/95	08:07:28
> 349.	XE2MXU	07/15/95	14:03:37

> 350. XE2NGT 07/18/95 12:48:37
 > 351. Z21EK 07/16/95 11:34:47
 > 352. ZL1AD 07/16/95 08:54:57
 > 353. ZL1AKJ 07/16/95 07:21:29
 > 354. ZL1DE 07/20/95 04:40:02
 > 355. ZL1MO 07/18/95 07:34:44
 > 356. ZL1UMB 07/15/95 08:48:01
 > 357. ZL1WPB 07/16/95 08:54:34
 > 358. ZL2GL 07/20/95 03:06:19
 > 359. ZR2ABU 07/17/95 18:02:01
 > 360. ZR5MMD 07/14/95 19:16:36
 > 361. ZR5SMD 07/14/95 17:41:29
 > 362. ZR6RSW 07/17/95 16:28:34
 > 363. ZS1EJ 07/14/95 17:38:06
 > 364. ZS6ADS 07/17/95 16:30:09
 > 365. ZS6BMN 07/14/95 17:40:46
 > 366. ZS6BTD 07/17/95 16:31:34
 > 367. ZS6CBA 07/17/95 16:28:49
 > 368. ZS6COL 07/16/95 14:44:28
 > 369. ZS6DY 07/16/95 14:45:17
 > 370. ZS6HS 07/16/95 13:10:43
 > 371. ZS6NAC 07/18/95 16:38:29
 > 372. ZS6TW 07/17/95 16:28:07
 > 373. ZU1RSW 07/18/95 18:13:24
 >
 > Gil Carman, WA5NOM
 >
 >

--
 Gerry Creager N5JXS * SAREX Co-Investigator
 gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

508. Compaq Aero prob FIXED!!

From: DDOBBINS@aol.com
 Date: Thu, 27 Jul 1995 11:26:15 -0400
 To: aprssig@tapr.org
 Message-ID: <950727112613_41982437@aol.com>
 Rendered body type: text/plain

That didn't take long. Thanks to those who responded with ideas. I called Compaq and spoke with a smart techrep who directed me to a file to dl from their FTP.COMPAQ.COM site. I don't remember which folder I found it in, there were several, but the file is called SP0743.ZIP. After the dl and unzip, I had a file called COMFIFO and upon running COMFIFO 1 OFF from the DOS prompt, then executing APRS, my problem with the lockup disappeared and once again I'm a happy camper. The tech rep said the Compaq serial port is "different", and uses the 16550 UART, which may not be compatible with external devices like a TNC when invoked with some DOS programs, like APRS. OK - I'm over my head. All I know is that it works. You can also dl the file from Compaq's BBS at 713-378-1418.

I was quite please w/the price of my Compaq Aero 4/33C. I had longed for a color laptop, and didn't think I'd find a new one for \$950, but that's what I paid at COSTCO. Has 4MB ram, 170MB HD, and includes an external floppy disk that plugs into the PCMCIA type II cardslot. I added another 4MB RAM for \$240 from Office Depot. That may have not been the best price, but it was just across the street.

Anybody want to buy my B&W Zeos subnotebook? Great condition, has 4MB ram, 80MB hard disk (to 160 doublespaced), includes ext. floppy, ac adapter/charger and DC adapter. DOS/Windows 3.11/APRS 72a/Lotus Organizer/Works/Uninstaller and a bunch of other files. Paid \$1500 1 1/2 years ago. Sell for ??? Make me an offer. Dave, WH6YC and Aloha Y'all (Texas Hawaiian) from on assignment in Bremerton, WA.

509. Re: [APRSSIG:2528] Map file format question

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
 Date: Thu, 27 Jul 1995 11:40:09 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950727113844.21752C-100000@greatlakes.nadn.navy.mil>
 Rendered body type: text/plain

On Wed, 26 Jul 1995 jra@ag9v.ampr.org wrote:

> Is "0,0" a valid data point in a map file, or is it used only to identify the

> beginning of a new feature?

ANSWER: It is a separator. NO POINT CAN HAVE AN X value of 0.
But Y can be 0.

510. LORAN with APRS

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 27 Jul 1995 11:54:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950727115126.21752H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well, I finally found out why the Academy sailboats using APRS were not showing course and speed, but everyone here on the SIG says it works fine. Turns out APRS had one line of code looking for \$GPVTG instead of the generic \$xxVTG, so it only worked with GPS! This will be fixed in future releases. If you are currently using LORAN and need this fix now, lemme know...

511. Re: [APRSSIG:2535] LORAN with APRS

From: bottmgun@emi.net (Jay K. Jeffries)
Date: Thu, 27 Jul 1995 13:05:53 -0400
To: aprssig@tapr.org
Message-ID: <199507271718.NAA19481@athens.emi.net>
Rendered body type: text/plain

Bob,
Some of our Civil Air Patrol units are equipped with LORAN for ground and marine ops. We are still coming up on APRS so it isn't a great rush. Thanks again for an excellent job done.
Respectfully,
Jay K. Jeffries

512. Meteor EVENT Announcements

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 27 Jul 1995 13:24:15 -0400 (EDT)
To: aprssig@tapr.org
Cc: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.950727115455.21752I@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

In order to get the word out, we need people on this SIG to post the following METEOR SCATTER ANNOUNCEMENT on their local and regional BBS's and on any other INTERNET SIGS that may have interested people. I will post it on AMSAT-BB. Notice that it is NOT just an APRS test, but any one with a TNC can play: CUT HERE and POST ELSEWHERE...

-----CUT HERE-----
NATIONWIDE 2 METER METEOR SHOWER TEST 11-15 AUGUST

The August QST Packet Perspective column by Stan Horzempa pondered a plan to test 2 meteor scatter. LETS DO IT! Amateurs Nationwide are hereby encouraged to participate in the Persieds Meteor Shower which will peak on 13 Aug. Although 6 meters is far better than 2 meters for meteor scatter work, everyone has a 2 meter radio and we can make up in numbers what is lacking in performance. All you need is a TNC, and preferably high power and a beam. The objective is to see how many grid square (DX) packets you receive over the 4 day event.

Here is the plan: Stations in the four quadrants of the country will alternately transmit for 15 seconds. Stations will transmit the shortest possible meaningful packet formed by placing their 6 digit gridsquare in the UNPROTO TO callsign field. eg, W3ADO>FM18SX: The suggested frequency is the ARRL experimental packet frequency of 145.79. BE SURE THIS FREQUENCY IS NOT OTHERWISE ASSIGNED IN YOUR AREA. EVEN so, you can still monitor!

STEP-BY-STEP SET UP PROCEDURES:

- 1) Point your beam towards a major population area about 500 to 1000 miles away in one of the three other USA quadrants. If there is another 2m local station, coordinate your beam headings so that you are not both hitting the same azimuth and receiver target area.
- 2) Enter your grid square into your TNC using the following command:
cmd: UNPROTO FM18SX
(If you cannot estimate the last 2 digits, use AA)
Notice that there is NO VIA DIGIPEATER used!
- 3) ATTENDED OPERATION: Enter the converse mode (cmd: CONV) and then each time you hit your carriage return key, you will send a packet. Hit 20 CR's and you will send a bundle of 20 grid square packets.

Synchronize your clock with WWV and transmit as many CR's you can in the following schedule:
North East stations transmit between 00 to 14 seconds
South East ... 15 to 29 seconds
South West ... 30 to 44 seconds
North West ... 45 to 59 seconds

- 4) UNATTENDED OPERATION: This will probably be the most successful:
a) Set your BEACON TEXT to ^HP where H and P are single characters:
H is beam heading divided by 10 and expressed by the digits 0 to 9 and then A through Z. 9=90, A=100, B=110, C=120... Z=350
P is the square root of your power %10. 1=10, 2=40, 3=90... 9=810
b) Set your BEACON to EVERY 1. This is not in accordance with the scheduled 15 second cycle, but it is better than nothing if you are operating un-attended.
- 5) Alternatively, run the APRS program version 71b or later, which has an automated mode for Meteor Scatter and will plot all received packets on the map. Also, in many areas, 145.79 is already being used for APRS. Read the APRS METEOR.txt file.

EXPECTATIONS: Meteor scatter paths are VERY specific between the transmitter and the receiver, typically any single event will only be heard by receivers within about a 20 mile footprint. This is why everyone can transmit at the same time in the same area, preferably pointing their beams in slightly different directions. As long as there is about 50 miles between identical TRANSMITTING stations, their signals will NOT probably hit the same receivers at the same times.

W0RPK and K1HTV did make a successful 2 meter packet contact in 1984 over about a 1000 mile path, but it took 2.5 hours of constant packets. Hopefully by having hundreds of transmitters, and hundreds of receivers, we can improve the statistics. The best time for meteors is in the early mornings from 0400 to 0800 LOCAL time. But it is not much worse the rest of the day...

REPORTS: Since you will possibly see packets that no one else will see, send all gridsquare reports (Only those known to be greater than 250 miles distant) to me and I will compile the data. Be SURE to include your gridsquare!

Bob Bruninga, WB4APR @ KA3RFE.MD or
bruninga@greatlakes.nadn.navy.mil (preferred)

P.S. The Naval Academy 40 foot dish (Annapolis MD) will beam towards Florida on the 11th, Atlanta on the 12th, the midwest on the 13th. Donno about the final 2 days yet. Expected ranges are only about 550 miles, though, because the elevation cannot get down below 10 degrees. The range to Atlanta and Indianapolis are about perfect for that...

513. Re: [APRSSIG:2537] Meteor EVENT Announcements

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Thu, 27 Jul 1995 13:48:31 +0000
To: aprssig@tapr.org
Message-ID: <9507271742.AA02286@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

Any one interested in 6 mtr version please leave msg and we will coord a small amount of time to try 6 Mtrs.

Bob Baltz *
Chesapeake Region Sales *
Ph: (410) 987- 8777 *
Fax: (410) 987-4489 *
E-mail bob.baltz@ustc.vlsi.com *

514. Re: [APRSSIG:2371] Re: Garmin altitude omission

From: JKANDEL@umiami.ir.miami.edu
Date: Thu, 27 Jul 1995 16:00:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HTDCLUPK5YA9NVAC@umiami.ir.miami.edu>
Rendered body type: text/plain

CZ

515. RE: [APRSSIG:2539] Re: Garmin altitude omission

From: munseyj@america.com
Date: Thu, 27 Jul 95 16:26:17 EDT

To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.950727162735.munseyj@.america.com>
Rendered body type: text/plain

Lookig for info on the garman 45 and altitude reading myself. My unit just runs random numbers that mean n othing. Anyone have a fix or info about this?

E-mail: munseyj@america.com
07/27/95 16:26:17

516. Re: [APRSSIG:2523] aprs72a fixes bug in 72

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Thu, 27 Jul 1995 18:17:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9507271845.A29050-9100000@acme>
Rendered body type: text/plain

Gee Bob, my 72a still gives me a few cmd: in the posit, mostly with wx station. - Just what you wanted to hear.... hi..hi..
Also been getting questioned about a Mini-version for use w/ windows and under 512K machines - Any Progress ?

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
"Will do maps for equipment"
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 143th most knowledgable person about A.P.R.S.

517. Re: [APRSSIG:2540] Re: Garmin altitude omission

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 27 Jul 1995 17:56:29 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507272256.RAA08755@solar.cs.tamu.edu>
Rendered body type: text/plain

munseyj@america.com sez:

>
> Lookig for info on the garman 45 and altitude reading myself. My unit just runs random
> numbers that mean n othing. Anyone have a fix or info about this?

Most likely what you are experiencing is the slow drift that Selective Availability induces when dynamic loads are low. IF you're moving more rapidly both horizontally and vertically, I suspect you'll see better accuracy and precision.

Also, I've not proven this theoretically or with rigorous math yet, but I suspect that the L1-C/A code solutions close to the geoid are more prone to error than those above the ellipsoid. In other words, it's worse closer to the ground than in the sky. This thought is based on observations flying, driving, and with L1/L2 survey equipment, and resolving the ambiguities there.

73 gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

518. Running Dos APRS on floppy

From: RonN9QGS@aol.com
Date: Thu, 27 Jul 1995 22:47:16 -0400
To: APRSSIG@tapr.org
Message-ID: <950727224715_42442558@aol.com>
Rendered body type: text/plain

Bob or anyone who can answer this, I am looking for the necessary files to run APRS, I just downloaded 7.2a and I am going balloon chasing, and only have a 720k portable, what files must be on the disk, besides command.com to boot the disk, probably 650K disk space available, some of which will be a map or 2.... Appreciated.
Ron

519. Atlanta GA Balloon Launch 7/29/95

From: rwf@mindspring.com (rwf)
Date: Fri, 28 Jul 1995 00:33:19 -0400
To: aprssig@tapr.org
Message-ID: <199507280433.AAA23427@dylan.mindspring.com>
Rendered body type: text/plain

ATLANTA BALLOONATICS

Atlanta Balloon Update on 28 July 1995:

All equipment for all packages on hand.
Payloads modules tested. Final integration underway.

DATE/TIME : Saturday July 29th or Sunday July 30th
: Release 0930EDT (1330Z) 0930EDT (1330Z)
: Weather conditions will control exact time of release

*** Launch site now appears to be favoring Dallas GA.

RELEASE SITE:

** : Dallas, GA 30 miles NW of Atlanta, GA
: Coordinates ??

: Payload weight : 5-pounds
: Balloon : TOTEX TA-1200
: Helium : 180 cu ft
: Ascent rate : 750 fpm
: Max altitude : 110,000ft
: Max radio range: 470sm

FREQUENCIES AND MODES

: Packet Radio Downlink 441.0 MHz 2W
: Retransmitted from ground into APRS net on
145.79 MHz and on 14.105 MHz LSB
: Standard AX.25 1200BPS AFSK FM
: Sending APRS-compatible NMEA-183 GPS navigation data
: No Open digipeating. No receiver. Don't try.

: Altitude, Inside & Outside Temperature telemetry on:
146.575 MHz , 28.322 MHz , & 438.5 MHz (wide band TV
audio)

**** : Charts for decoding of C.W. telemetry may be found on World
Wide Web at address <http://www.mindspring.com/~rwf>

*** : ATV camera (B&W) with 1 watt AM transmitter on 434.0 MHz
: All antennas vertically polarized

EXPERIMENTS : More experiments in BASIC stamp control of balloon payloads.
Stamp controlled servo/mirror for multiple
camera views,
12 bit altimetry and 2, 8 bit temp probes.

Possible HF net on 3.780MHz before and during mission. Still do not have a
Net Control. Anyone wanna come do it?

For more details about this project, see the WWW address:

<http://www.mindspring.com/~rwf>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info
ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

520. Atlanta Balloon Telemetry Charts

From: rwf@mindspring.com (rwf)
Date: Fri, 28 Jul 1995 08:37:12 -0400
To: aprssig@tapr.org
Message-ID: <199507281237.IAA09901@dylan.mindspring.com>
Rendered body type: text/plain

>For those interested in tracking the balloon Saturday morning, I have posted some charts on my Web page. The charts will allow you to convert the CW telemetry being transmitted on 28.322 MHz into Inside and Outside Temperatures and Altitude. Of Course, the GPS data will be sent out into APRS-land.

If you want the charts, they are on the page: <http://www.mindspring.com/~rwf>
Just select the "Atlanta Balloonatics" page from the menu.

If you are using Netscape, you can download the gif files by holding down the SHIFT button while clicking on the filename on the page.

Here's a question-

This is a 2-4 hour mission, taking place at 13:30 Z Saturday the 29th.
Will there be any problem with sending the GPS telemetry out through the GATE? Do y'all wanna see it?

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info
ATV and GPS Balloon Flight coming up July 29th from Atlanta, GA 13:30z
ATV 434.0 MHz, GPS data on 441.0, HF beacon on 28.322

521. Re: [APRSSIG:2453] APRS-SAREX REPORTS DUE!

From: DEANG@mail.syntron.com
Date: Fri, 28 Jul 95 10:57:40 CST
To: aprssig@tapr.org
Message-ID: <9506288069.AA806954260@MAIL.SYNTRON.COM>
Rendered body type: text/plain

>I think now I understand why only 1 APRS packet was digipeated by SAREX
>during this WORLD-WIDE special APRS-SAREX test. So far, only 5 stations
>have reported participating. If you were transmitting APRS UI position
>reports during ANY pass during which SAREX was in PACKET mode, let us
>know. Thanks.

I attempted to digi thru SAREX on 3 mornings, with no success. I blamed the failure on my omni directional antenna & bad timing (voice passes). Since I was not geared up for space communications, I was not surprised by my lack of results. I AM surprised that everyone else seems to have had such poor results.

```
\\//  
(..)  
-oo0-(_)0oo-----  
| George Dean KC5KGE 2946.18N 9545.76W DEANG@syntron.com |  
-----
```

522. Re: [APRSSIG:2546] Re: APRS-SAREX REPORTS DUE!

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Fri, 28 Jul 1995 11:24:08 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507281624.LAA19270@solar.cs.tamu.edu>
Rendered body type: text/plain

DEANG@mail.syntron.com sez:

>
> I attempted to digi thru SAREX on 3 mornings, with no success. I blamed
> the failure on my omni directional antenna & bad timing (voice passes).
> Since I was not geared up for space communications, I was not surprised by
> my lack of results. I AM surprised that everyone else seems to have had
> such poor results.

Considering my experience with LEO satellites and omni antennas, I more suspect that it's the nature of the SAREX antenna on the vehicle that contributed to this.

For the record, the SAREX antenna used on the last mission was the usual one, not something in the payload bay. It's a tuned cavity resonator, and its tuning is pretty critical. It is interference-fit into one of the triangle-shaped windows in the forward flight deck (W1 or W6) which are the aft-most forward flight deck windows (and, yes, I know this is a confusing description...). These 2 windows are beside and slightly behind the Commander and pilot, the 2 guys who get good seats on launch and landing...

The pattern of the antenna, for you antenna gurus out there is an annulus with a half-cone angle of approximately 85 degrees, with an exclusion half-cone of between 5 and 10 degrees. All of these numbers are theoretical. We never got a chance to place to 1:10 mockup back in the anechoic chamber with a 1:10 antenna in a window, and our Enterprise tests at Dulles Airport were done in a hangar with too many reflections to allow us to determine patterns.

So, to put it charitably, it's a dynamite high-tech antenna widget, but as antennas go, sometimes it's not even a good dummy load (especially if it's mistuned!). Don't despair too much if you were unsuccessful. Sometimes it's hard!

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

523. Re: [APRSSIG:2543] Running Dos APRS on floppy

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Fri, 28 Jul 1995 12:29:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950728122759.29570B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Thu, 27 Jul 1995 RonN9QGS@aol.com wrote:

> Bob or anyone who can answer this, I am looking for the necessary files to
> run APRS, I just downloaded 7.2a and I am going balloon chasing, and only
> have a 720k portable, what files must be on the disk, besides command.com to

APR REQUIRED FILES:

- 1) you must have all sub directories even if empty
 - 2) You should take most of the APRS\SYSTEM files
 - 3) You must have MAPLIST.USA and any local MAPLIST.xxx
 - 4) YOu should have USA.map plus any others you want
- That should do it...

524. Re: [APRSSIG:2547] Re: APRS-SAREX REPORTS DUE!

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Fri, 28 Jul 95 13:04:32 EDT
To: aprssig@tapr.org
Message-ID: <9507281704.AA00344@umed.med.miami.edu>
Rendered body type: text/plain

>
> Considering my experience with LEO satellites and omni antennas, I more
> suspect that it's the nature of the SAREX antenna on the vehicle that
> contributed to this.
>
> For the record, the SAREX antenna used on the last mission was the usual one,
...
...

I've had very good luck with SAREX over the last few years, using my OSCAR equipment, a KLM 22CX on an AZ/EL rotor and 170 watts, I often work them on the first call. Sadly, I was stuck in Miami during this entire mission. I was surprised to see my call on the heard list, despite running a ground plane and 45 watts. However I never heard my call come back down, and apparently neither did any of the APRS listeners.

I don't find it too surprising this experiment was a bust, given the QRM that a SAREX flight generates, the simple packet equipment most APRS stations were using, and the limitations of the SAREX payload. I think

trying to set up a few days of tests on MIR would be much more productive.

Steve K04HD

525. POSTPONED !! Atlanta GA Balloon Launch

From: rwf@MindSpring.com (rwf)
Date: Fri, 28 Jul 1995 17:11:15 -0400
To: aprssig@tapr.org
Message-ID: <199507282111.RAA03549@dylan.mindspring.com>
Rendered body type: text/plain

ATLANTA BALLOONATICS

Atlanta Balloon Update on 28 July 1995 at 21:00Z

Poor weather outlook for Saturday and Sunday has forced us to reschedule launch for next Saturday, August 5, 1995. All other details are the same.

> Ralph Fowler, N4NEQ S.E.R.A. ATV Technical Advisor
>
> rwf@mindspring.com Atlanta, GA USA
> Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
> FTP: <ftp://www.mindspring.com/users/rwf> for ATV, GPS, APRS info
> ATV and GPS Balloon Flight coming up August 5th from Atlanta, GA
> APRS web page: <http://www.mindspring.com/~rwf/aprs.html>
>
>
>

526. (no subject)

From: wb4izc@gate.n9gsa.ampr.org
Date: Sat, 29 Jul 1995 12:09:03 -0500
Message-ID: <199507291709.MAA19394@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

[Empty message body]

527. testing, don't bother reading.

From: dvelez@ix.netcom.com (Daniel Velez)
Date: Sat, 29 Jul 1995 06:05:43 -0700
To: aprssig@tapr.org
Message-ID: <199507291305.GAA12218@ix5.ix.netcom.com>
Rendered body type: text/plain

Sorry for the online test, checking to see if I've been dropped from the mailing list - AGAIN.

--

dvelez@ix.netcom.com or N4WZR@WD4MIZ.VA
A0000GA! A0000GA! DIVE! DIVE! DIVE!

528. Re: [APRSSIG:2545] Atlanta Balloon Telemetry Charts

From: fehner@cts.com (Barbara Fehner)
Date: Fri, 28 Jul 95 12:34 PDT
To: aprssig@tapr.org
Message-ID: <m0sbvBE-0001z1C@kickme.cts.com>
Rendered body type: text/plain

>
>Here's a question-
>
>This is a 2-4 hour mission, taking place at 13:30 Z Saturday the 29th.
>Will there be any problem with sending the GPS telemetry out through the
>GATE? Do y'all wanna see it?
>

> Ralph Fowler, N4NEQ S.E.R.A. ATV Technical Advisor
>
> rwf@mindspring.com Atlanta, GA USA

I would like to see it if the band is open. Will it be gated to 30 M. ,20 M. or both?

Barbara KK6IB
E-Mail: fehner@cts.com

529. Re: [APRSSIG:2553] Re: Atlanta Balloon Telemetry Charts

From: rwf@mindspring.com (rwf)
Date: Sat, 29 Jul 1995 16:06:39 -0400
To: aprssig@tapr.org
Message-ID: <199507292006.QAA22773@dylan.mindspring.com>
Rendered body type: text/plain

>
>I would like to see it if the band is open. Will it be gated to 30 M. ,20 M.
>or both?
>
>Barbara KK6IB
>E-Mail: fehner@cts.com
>

As far as I know 30 m only
There is a rumor of a 14 Mhz GATE going up in Athans, GA. If it does- I
guess itll be on both.

Hope you saw- it is delayed until Sat Aug 5th due to weather

530. Re: [APRSSIG:2541] Re: aprs72a fixes bug in 72

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sat, 29 Jul 1995 15:51:38 -0500
To: aprssig@tapr.org
Message-ID: <9507292051.AA00901@omnifest.uwm.edu>
Rendered body type: text/plain

The Ohio Mapmaker - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
"Will do maps for equipment"
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 143th most knowledgable person about A.P.R.S.

=====
Didn;t it used to be the 137th ...
Who passed you up????
Dave

531. Re: [APRSSIG:2553] Re: Atlanta Balloon Telemetry Charts

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 29 Jul 95 17:02:52 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.807051772.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

I would LOVE to see balloon data from other parts of the country come via HF!

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

532. Garmin 45 results

From: KD4EMI@aol.com
Date: Sat, 29 Jul 1995 12:14:25 -0400
To: aprssig@tapr.org
Message-ID: <950729121424_125732647@aol.com>
Rendered body type: text/plain

Well, there we were flying around and soon as we were in the air practically,
boom off went the display and boom...no data...

So the reply is...no data, no display....Couldnt even get started before
we finished..

Also, looking for amy map makers to help in the South FL area.

73 MIke KD4EMI@AOL.COM
2614.36 / 08011.39

533. Re: [APRSSIG:2555] Re: aprs72a fixes bug in 72

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 30 Jul 1995 10:44:45 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9507301043.A19591-a100000@acme>
Rendered body type: text/plain

On Sat, 29 Jul 1995, David W. Barrow III wrote:

> The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
> "Will do maps for equipment"
> Cruise Missile Address: 39 56.35 N 082 58.89 W
> The 143th most knowledgeable person about A.P.R.S.
>
>
> =====
> Didn;t it used to be the 137th ...
> Who passed you up???

Heck, between a lot of knowledgeable people picking up on how the program works, and WB4APR adding more complicated bells and whistles onto the program, it ain't hard to start falling behind some of you computer literate whipper snappers.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
"Will do maps for equipment"
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 143th most knowledgeable person about A.P.R.S.

534. Maps

From: wnolle@ro.com (William Nolle)
Date: Sun, 30 Jul 1995 12:33:28
To: aprssig@tapr.org
Message-ID: <199507301739.MAA17060@sh1.ro.com>
Rendered body type: text/plain

For those of you coming to the Huntsville Alabama Hamfest i have a new very detailed map of the Downtown area where the VBCC center is located. This detailed map was made from the 1:100,000-scale CD-Rom, by the way my first attempt hi. This in addition with our Madison county map would make it easy for thos using GPS to get you to the Hamfest site. I have placed this map in MAPLIST.USA so the set will include this also. The only problem i have is how do i get this to you?. Anyway just tough someone maybe interested. By the way the Downtown area map is 36K....

Bill KE4EER
wnolle@ro.com

535. Mapmaking

From: wnolle@ro.com (William Nolle)
Date: Sun, 30 Jul 1995 14:51:18
To: aprssig@tapr.org
Message-ID: <199507301957.OAA20497@sh1.ro.com>
Rendered body type: text/plain

Bob, i have been trying my hand at mapmaking, and did well with the Downtown huntsville 1:100,000 scale map using the CD. The is a big problem tough with what i believe you call the negative lines. the map is full of the (I'm talking maybe 30 or so). Now some of these don't show when actually using the map in APRS (But some do). The last editing session when i zoomed in on where all those points meet it gave the old Error message as follows:
Fture# 274 4416-25- 21
MapPt# 1341 Val:210 782
Error Beyond Repair = 6 Hit Enter to Return to DOS.

This is with the Makemap14.exe version, but have noticed this with other versions also. I noticed there is a command to get rid of the negative lines i assume but it doesn't do anything. Sure would be great if this problem could be solved somehow hi...

Bill KE4EER
wnolle@ro.com

536. Re: [APRSSIG:2557] Garmin 45 results

From: Jess Girard <girard@panix.com>
Date: Sun, 30 Jul 1995 16:03:37 -0400 (EDT)
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.950730155935.10596A-100000@panix.com>
Rendered body type: text/plain

On Sun, 30 Jul 1995 KD4EMI@aol.com wrote:

> Well, there we were flying around and soon as we were in the air practically,
> boom off went the display and boom...no data...
>
> So the reply is...no data, no display....Couldnt even get started before
> we finished..

Did you try slow flight? I don't know what you were flying but it's
certainly no big deal in most aircraft to crank them back to less
than 80 knots...or is the limit lower?

Jess ND1L
girard@panix.com
girard@netcom.com
4107.59N/07320.00W

537. Re: [APRSSIG:2560] Mapmaking

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 30 Jul 1995 16:38:04 -0400 (EDT)
To: William Nolle <wnolle@ro.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9507301659.A14728-a100000@acme>
Rendered body type: text/plain

On Sun, 30 Jul 1995, William Nolle wrote:

> The is a big
> problem tough with what i believe you call the negative lines. the map
> is full of the (I'm talking maybe 30 or so). Now some of these don't
> show when actually using the map in APRS (But some do).
Are those the lines that always end up from the edges to point 0,0?
Those are "one point" lines, and the best way is to use a word processor
to hunt them out and delete them.

They look like:

0,0
7, 23 - 898
896,375
0,0

To be a "true" line, it would need a second set of points after the
896,375. As it is now, the program assumes that 0,0 is the second point, and
"ties" it into the next line. After a while you get good at hunting those
little ghost lines out.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
"Will do maps for equipment"
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 143th most knowledgable person about A.P.R.S.

538. Subscribe

From: aa6vn@bdt.com (John Reilly)
Date: Sun, 30 Jul 1995 18:09:11 -0800
To: aprssig@tapr.org
Message-ID: <m0scjMA-000blqC@bdt.bdt.com>
Rendered body type: text/plain

Subscribe

```
=====
73 de jack      aa6vn                               [44.4.34.226]
Internet        aa6vn@bdt.com
WWW             http://www.bdt.com:80/home/aa6vn
amprnet         jack%aa6vn@orinda.ampr.org [44.4.34.227]
AX25            aa6vn@aa6qr.#nocal.ca.usa.na
Fax             (510) 254-7782
=====
```

539. GPS tracker WARNING

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Sun, 30 Jul 1995 23:21:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950730230940.6254A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Well, I have heard of a few people that always leave their Dead Reckoning off, because they say it messes up their screens. I always say, that if you are getting dead reckoning errors then your clock is off, and you should fix your clock and date rather than turning off DR.

Well today, an AERO mobile flew over our net running a stand alone tracker outputting RAW \$GPRMC sentences... I was getting DR errors and looked at the raw data... and discovered something.

The TIME field in the RMC was in LOCAL time!

APRS always assumes the time is ZULU because that is what the NMEA standard says it should be. Apparently this GPS (I think it was a GARMIN) was in local time, and LOCAL TIME IS TRANSMITTED IN THE RMC DATA!

In my opinion, this is a violation of the NMEA standard (ill look it up tomorrow) and is a problem for that GPS manufacturer to fix. SO, if you have your GPS in local time, be sure it is outputting ZULU time in its data sentences!....

I havent studied the GPS commands, maybe the owner of this GPS forgot to tell it the time zone offset, and it thinks it is doing correctly.... Anyway, maybe this explains why some people insist that they get DR errors even when THEIR clock is OK. All stand-alone-tracker owners must be sure to set up their GPS to output in ZULU time.

540. Re: Garmin 45 results

From: Jeff55@aol.com
Date: Mon, 31 Jul 1995 03:28:44 -0400
To: aprssig@tapr.org
Message-ID: <950731032837_44419968@aol.com>
Rendered body type: text/plain

It's no surprise that the 45 gets stupid in an aircraft. It's a marine GPS and isn't interested in aircraft whatsoever. I frequently fly my GPS-75 in a 206-B3 and it winks out at around 104 mph. The good news is that it IS tracking the constallation and all ya gotta do to get the display back is slow down.

I've watched the 'Skyview' window while in a commerical jet and it seems to still seems to be tracking, it just can't process the data. Well, I guess that's the tradeoff between \$400 & the \$1100.00 Aircraft version.

jeff - wa6equ

541. APRSSIG

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 31 Jul 95 6:09:34 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.807185374.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

to subscribe you need to send a message to:

listserv@tapr.org

and put

subscribe aprssig <your name>

in the text of the message

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

542. th

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Mon, 31 Jul 1995 07:58:29 -0500
To: aprssig@tapr.org
Message-ID: <9507311258.AA06152@omnifest.uwm.edu>
Rendered body type: text/plain

John,
"th" is seldom used after the digit 3 - that usually gets an "rd".
Are you "slipping again?
Dave

543. Single point lines and Such (Was Re: [APRSSIG:2562] Re: Mapmakin

From: "Thomas H. Busch" <TOMB@avoca.nwsc.sea06.navy.mil>
Date: Mon, 31 Jul 1995 08:26:16 EST
To: aprssig@tapr.org
Message-ID: <199507311333.IAA10812@dingus.n5lyt.datarace.com>
Rendered body type: text/plain
AHA! now I see what that is.

Now how about this:

When do the 100K maps I always seem to get lines that run around the edge of the map. Sometimes they appear to be connected to real roads, and sometimes they are just there by themselves.

Is this related to single point lines?

TomB
WB8WOR

544. HABET HSTS....

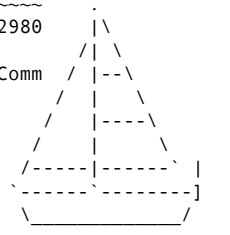
From: paul@paccomm.com
Date: Mon, 31 Jul 95 09:30:16 UTC
To: aprssig@tapr.org
Message-ID: <2380@paccomm.com>
Rendered body type: text/plain

Anybody else noticed that the HABET balloon tracks won't load.... gives an error.
Load into an editor and delete the first line.....

Then it'll work.....

Think they are taking the track history and then editing it, but in the proces they do something that APRS F-L doesn't like!

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980  
Fax:+1 (813) 872-8696  
Views expressed here are not necessarily those of PacComm  
Don't surf the net, SAIL it!  
Captain of S/V "Spindrift", Dunedin, FL.  
Tall rig (58'), Winged Keel (4' 2"), full batten main  
PacComm Packet Radio Systems  
4413 N. Hesperides St., Tampa, FL 33614-7618  
~~~~~



545. Re: [APRSSIG:2565] Re: Garmin 45 results

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Mon, 31 Jul 1995 09:45:33 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199507311445.JAA29381@solar.cs.tamu.edu>
Rendered body type: text/plain

JeffS5@aol.com sez:

>
> It's no surprise that the 45 gets stupid in an aircraft. It's a marine GPS
> and isn't interested in aircraft whatsoever. I frequently fly my GPS-75 in a
> 206-B3 and it winks out at around 104 mph. The good news is that it IS
> tracking the constallation and all ya gotta do to get the display back is
> slow down.
>
> I've watched the 'Skyview' window while in a commerical jet and it seems to
> still seems to be tracking, it just can't process the data. Well, I guess
> that's the tradeoff between \$400 & the \$1100.00 Aircraft version.

In playing with the Trimble SV-6 core module and the Motorola VP OnCore core receiver, I've found that both have a mode command that allows you to tell the receiver what service it's gonna be used in, and therefore, which strategy to use to acquire satellites on the fly and to deal with acceleration and delta-V. I truly doubt Garmin's got different engines for the marine and

aviation versions of their venerable handhelds... I suspect some of the computing horsepower they have in there is dedicated to marketing (and maybe to the lawyers) and that their lockout is intentional. I'd love to tell you for sure, but I can't get a straight answer out of the Tech Support folks. They wouldn't even sell me a tech manual on the GPS 55 AVD, 'cause I might open it (already had...) and then try to fly! Sorry, but since I spend so much time with the hardware already, that's pretty lame!

73, gerry

546. Re: 6 m & meteor test

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 31 Jul 1995 11:47:05 -0400 (EDT)
To: aprssig@tapr.org
Cc: Peter_A_Putnam/SSI1.SSI1@notes-gw.tus.ssil.com
Message-ID: <Pine.SUN.3.91.950731113105.7891B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I had posted a request for everyone to check with their frequency coordinators to find a permanent 6 meter Meteor scatter (and separate APRS) frequency. So far NO ONE has responded. All I am asking for is a copy of YOUR EXISTING PLANS so that we can select minimum grief frequencies. Here is the current band plan in the Greater Wash DC and Baltimore areas....

In the absence of any contravening data, for this AUGUST 11 to 15 test, lets use 50.62 MHz for any APRS 6 meter METEOR SCATTER TESTS..

50.62 packet backbone (defunct) & I have crystals
50.64 avail
50.66 avail
50.68 avail
50.70 rtty freq (probably defunct)
50.72 avail
50.74 avail
50.76 avail
50.78 avail
50.80 bottom edge of radio control band

I suggest the LOWEST and FURTHREST From the radio controllers for 6 meteor METEOR SCATTER WORK. This means 50.62.

Then i suggest 50.78 for APRS...

547. APRS Meteor versions

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 31 Jul 1995 11:57:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950731114801.7891C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I have already encountered my first desired addition to the Metoer Scatter mode for the upcoming test. It is a DIGI-FILTER for MS work. With it, ALL PACKETS heard OTHER than DIRECT are ignored... This will keep your map and lists clear of everytthing except for packets heard DIRECT... I will be releasing this in a day or so. SO if you are planning on doing the MS test, you can hold off donwloading until 72b is posted....

548. Re: [APRSSIG:2571] Re: 6 m & meteor test

From: Jess Girard <girard@panix.com>
Date: Mon, 31 Jul 1995 16:02:12 -0400 (EDT)
To: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950731160046.23269C-100000@panix.com>
Rendered body type: text/plain

Bob:

What kinda antenna you like to such meteor scatter stuff? I have 6m only in my car so I need to make something to try. Too bad I sold that KW amp I had 20 years ago... sigh.

Jess ND1L

549. Re: [APRSSIG:2568] Single point lines and Such (Was Re: Re: Mapmakin

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Mon, 31 Jul 1995 18:08:01 -0400 (EDT)

To: "Thomas H. Busch" <TOMB@avoca.nwscc.sea06.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9507311859.A27480-b100000@acme>
Rendered body type: text/plain

On Mon, 31 Jul 1995, Thomas H. Busch wrote:

> When do the 100K maps I always seem to get lines that run around
> the edge of the map. Sometimes they appear to be connected to real
> roads, and sometimes they are just there by themselves.
>

> Is this related to single point lines?

It's a distant cousin to the single point line. When a map is created by using the usgs import, a set boundry is made, Those Horz/Vert lines are segments of roads/stream/etc that would love to cross the boundry but can't due to international law, or something like that.

Before mapfix14, it drove me crazy figuring out which point/line to kill to get rid of those pesky monsters. With the "highlite" feature of "F"ind, I move may cursor to either the start or end of the line, Hit "F" to see if its the right line I want killed, then kill it.

Unfortunately 1 in 100 of those lines are real features, so check it out against a "real" map before deleating it.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249

"Will do maps for equipment"

Cruise Missile Address: 39 56.35 N 082 58.89 W

The 143th most knowledgable person about A.P.R.S.

550. None

From: "Jim White" <jjwhite@ntsqm1>
Date: 31 Jul 1995 16:20:02 -0600
To: "arpssig" <aprssig@tapr.org>
Message-ID: <n1404913931.34857@NTSQM1>
Rendered body type: text/plain

Time: 4:25 PM

None

subscribe aprssig Jim White

551. subscribe

From: aa6vn@bdt.com (John Reilly)
Date: Mon, 31 Jul 1995 19:07:08 -0800
To: aprssig@tapr.org
Message-ID: <m0sd6jX-000bnSC@bdt.bdt.com>
Rendered body type: text/plain

Subscribe

552. Re:Digi's Gates and life on the road

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Mon, 31 Jul 1995 22:14:22 -0500
To: aprssig@tapr.org
Message-ID: <199508010314.WAA20544@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

My brother is leaving Cedar Rapids, IA 8-2-95 to Winterpark, CO and will be running a Garmin45 direct to a PacCom tiny2 TNC2. Now for the questions!

What vhf to hf gates are along the way?

What freq's along the way?

What's the best way to setup the digipath?

The route is:

DEPART Cedar Rapids (IA) on the US151	½ mile	W	Amana
Turn left onto I380	21 miles	S	North Liberty
Turn off onto I80	97 miles	W	Ames
At Altoona, IA, stay on I80	15 miles	W	Urbandale
At Urbandale, IA, turn off onto I35	5 miles	S	Clive
At West Des Moines, IA, turn off onto I80	95 miles	W	De Soto
Stay on I80	102 miles	W	Council Bluffs
Stay on I80	106 miles	W	York
Stay on I80	115 miles	W	North Platte
Stay on I80	55 miles	W	Ogallala
Turn off onto I76	63 miles	W	Sterling
Stay on I76	118 miles	W	Fort Morgan
At Commerce City, CO, stay on I76	9 miles	W	
Turn off onto I70	3 miles	W	Vail
Turn off onto SR58	6 miles	W	Golden
Turn left onto US6	11 miles	W	

Bear right onto I70 4 miles W Vail
Stay on I70 10 miles W Vail
Turn off onto US40 16 miles NW Steamboat Springs
ARRIVE Winter Park (CO)

This is just for kick's but if anyone has any thought's drop me some
mail at barrettd@crpl.cedar-rapids.lib.ia.us.
If anyone get's an HSTS file on NM0B-4 which is the APRS ID for a bike (no
motorcycle symbol) We'd love to have you
e-mail it to us. Thanks

Barrett (^-^)

August 1995

Original source file: aprssig.9508

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1995-08/TAPR-APRS_1995-08.txt

1. [APRSSIG:2565] RE: GARMIN

From: jeff.brenton@espi.com
Date: Mon, 31 Jul 95 22:34:41 -0500
To: aprssig@tapr.org
Message-ID: <9507312234.0VPUS0Z@espi.com>
Rendered body type: text/plain

jeff WA6EQU comments on the differences between the "\$400 & the \$1100.00 Aircraft version"....

Garmin's latest aviation handheld, the 90, is selling for \$675 this week, so it ain't \$1100! B-)

2. [APRSSIG:2566] APRSSIG

From: jeff.brenton@espi.com
Date: Mon, 31 Jul 95 22:34:43 -0500
To: aprssig@tapr.org
Message-ID: <9507312234.0VPW40Z@espi.com>
Rendered body type: text/plain

Keith, you forgot that sending a note about how to subscribe to this list *to* the list isn't going to get to anyone who is trying to subscribe...

I sent aa6vn@bdt.com a note on how to get subscribed directly; hopefully, he'll receive it!

3. MFJ-8621 data radios

From: jeff.brenton@espi.com
Date: Mon, 31 Jul 95 22:34:46 -0500
To: aprssig@tapr.org
Message-ID: <9507312234.0VPXH0Z@espi.com>
Rendered body type: text/plain

The MFJ's finally arrived, two days after my "drop dead" date for getting them installed before I left for OSHKOSH for the weekend. Even this required begging and pleading with MFJ directly, and they still didn't send all three radios order - just the two for our EOC.

Opened the boxes Sunday, and found that - despite delaying my order for over two months, MFJ did NOT install the crystals, as ordered, but merely sent them along for me to install. This saved me \$2 (discounted price on crystals through R&L Electronics), but I put up with the delay (they'd had radios on 145.01 in stock at R&L when I ordered) because they were supposed to arrive ready to go...

Still haven't put them on the air; too many things going on as part of the aftermath of 2.5 days vacation time, plus planning a trip for one of my employees. So, an on-air report is still a week or so away for me. But, I figured I'd keep everyone informed!

4. Re: SIG answerers

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 1 Aug 1995 09:11:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950801085000.2349C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

To help avoid duplicative efforts, I recomend that we get several volunteers to answer ALL messages on certain subjects. By knowing who these people are, it allows the rest of us to relax and not feel compelled to answer every single message. Anyone is still WELCOME to kibitz and offer their opinion, but at least these volunteers will assure that nothing falls through the cracks..

Bruninga	WB4APR	APRS
KSproul	WU2Z	MacAPRS
Gcreager	N5JXS	Motorola GPS
rwf	N4QAE	Garmin GPS
???		Magellan GPS
GReady	W1BEL	PACCOMM

JBaum KB8JX0 Maps 100K
Bruninga WB4APR Maps 2,000,000
??? Kantronics
??? AEA
????????????? Subscribe/Unsubscribe !!!!!!! Here is where we need
a suffering volunteer!
If I drafted you by mistake, lemme know. Also, if you have a favorite
subject, sign up. I will maintain this list and periodically share it.
Again, the purpose of the list is simply to provide a safety net to be
sure that everyone's question is guaranteed at least ONE answer from a
knowldegable person...

5. vox / aprs chip

From: tnichols@vtcom3.vantek.net (Thomas Nichols)
Date: Tue, 1 Aug 1995 07:37:26 -0500
To: aprssig@tapr.org
Message-ID: <199508011237.HAA04095@vtcom3.vantek.net>
Rendered body type: text/plain

Been trying to find you via several different avenues. If you have already
replied to WB4IZC Memphis, Please disregard this mail. We are extremely
interested in your APRS chip for our storm chasing efforts. We have a wide
area UHF repeater for the teams, with remote base capabilities, and we would
like to try your chip as an on-channel APRS/GPS system. Need more info..

Steve is the guy who is in charge of this particular project for ECAMS
(Emergency Communications Auxiliary of the Mid-South). You can reach him at
WB4IZC@gate.n9gsa.ampr.org or me here at tnichols@vantek.net

Tnx
Tom
KD4JGK Memphis

6. Re: [APRSSIG:2580] MFJ-8621 data radios

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 1 Aug 1995 09:10:10 -0500
To: aprssig@tapr.org
Message-ID: <9508011410.AA16678@omnifest.uwm.edu>
Rendered body type: text/plain

Jeff,
"Drop dead" dates only work if you enforce them. MFJ knew that
you would take what ever they sent whenever they sent it.

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

7. Re: [APRSSIG:2578] RE: GARMIN

From: potomacg@telalink.net (Mike Jackson)
Date: Tue, 1 Aug 1995 10:40:40 -0500
To: aprssig@tapr.org
Message-ID: <199508011540.KAA04060@eden.telalink.net>
Rendered body type: text/plain

Tell everyone about the periodic updates(database) for the Garmin...
specifically that each update is serial number keyed to the unit so that one
update package can't be ordered for a club and shared by all... But
Magellan's Aviation GPS can share updates...

Just an observation...

Mike.

>

>jeff WA6EQU comments on the differences between the "\$400 & the
>\$1100.00 Aircraft version"....

>

>Garmin's latest aviation handheld, the 90, is selling for \$675 this
>week, so it ain't \$1100! B-)

>

>

--*****--

Mike T. Jackson KD4KSQ
4819 Jeffery Drive potomacg@medifax.com

Nashville, Tn 37211-4043 Mxxxxxx@aol.com
(615) 331-2706 Home (615) 832-3490 PC
1-800-846-9035 (138) Work

Forget Windows 95... Windows NT RULES!

8. Re: [APRSSIG:2581] Re: SIG answerers

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 1 Aug 1995 11:01:41 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508011601.LAA16354@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Bruninga sez:

>
>
> To help avoid duplicative efforts, I recomend that we get several
> volunteers to answer ALL messages on certain subjects. By knowing who
> these people are, it allows the rest of us to relax and not feel
> compelled to answer every single message. Anyone is still WELCOME to
> kibitz and offer their opinion, but at least these volunteers will assure
> that nothing falls through the cracks..
>
> Bruninga WB4APR APRS
> Gcreager N5JXS Motorola GPS
> ?????????????? Subscribe/Unsubscribe !!!!!!! Here is where we need
> a suffering volunteer!

WILCO on Motorola, and can also deal with the subscription issues... Keith,
want to trade off on those?

73, gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

9. Subscribe volunteer...

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 1 Aug 1995 12:16:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950801121521.4773D-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 1 Aug 1995, Jess Girard wrote:

> Subscribe/unsubscribe: I'll be happy to create a little file here which I can
> send to anyone who transmits such a message to aprssig. My pleasure.

APR REPLY: THANKS. LOOKS LIKE WE GOT A VOLUNTEER...

10. Re: [APRSSIG:2571] Re: 6 m & meteor test

From: mark@tetherless.com (Mark Oppenheim)
Date: Tue, 1 Aug 1995 09:43:31 -0700
To: aprssig@tapr.org
Message-ID: <199508011643.JAA17716@gorgor.pa.tetherless.com>
Rendered body type: text/plain

At 11:03 AM 7/31/95 -0500, Bob Bruninga wrote:

>I had posted a request for everyone to check with their frequency
>coordinators to find a permanent 6 meter Meteor scatter (and separate
>APRS) frequency. So far NO ONE has responded.

... I hadn't seen this.

However, for the long term (not this latest shower), have we decided on the
modulation and mode of choice?

Possible choices:

Modem Modulation (Type of radio)
1200 AFSK (FM)
1200 PSK (SSB)
1200 PSK (FM)
4800 FSK/MSK (FM)

4800 PSM (SSB)
9600 FSK/MSK (FM) *
19,200 FSK (FM)

* My personal choice.

Mark
KD6KQ

11. Re: [APRSSIG:2579] APRSSIG

From: bert@tiac.net
Date: Tue, 1 Aug 1995 14:04:34 -0400
To: aprssig@tapr.org
Message-ID: <v02110100ac441ae53f9f@[199.3.129.159]>
Rendered body type: text/plain

>Keith, you forgot that sending a note about how to subscribe to this
>list *to* the list isn't going to get to anyone who is trying to
>subscribe...
>
>I sent aa6vn@bdt.com a note on how to get subscribed directly;
>hopefully, he'll receive it!

How about one to tell folks how to: unsubscribe so it doesn't go to
the whole list;)

Bert Flower	N1MX0
42 Allen St.	
Arlington, Ma. 02174-1610	
617-646-8013	

The radio spectrum is a natural resource.
Create a national recreational park made up of the HAM radio spectrum.

12. Re: [APRSSIG:2587] Re: 6 m & meteor test

From: BenW5SR@aol.com
Date: Tue, 1 Aug 1995 15:49:12 -0400
To: aprssig@tapr.org
Message-ID: <950801140220_127913913@aol.com>
Rendered body type: text/plain

As far as a 6m freq and mode I think we also need a national 6m and 2m ssb APRS freq. It would be interesting to try e-skip, FAI, and tropo via packet. I will use 145.79 as I see band openings for unattended ops (if the bands open and I'm home APRS takes a back seat. Would like to see a freq at the low end of both 6 and 2 m for ssb APRS and general packet operations. Would like it at the low end because long boom antennas 3+ wavelenghts have narrow bandwidths. Maybe just above the beacon subband, this could evolve into a new type of beacon for vhf ops. Any other thoughts on this from other VHF+ operators or any one in general? 73 Ben W5SR DM95cf

13. 1995 Perseids 6M Packet Radio METSCAT Test

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>
Date: Wed, 2 Aug 1995 15:21:08 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950802152108.3c6@dsm1.dsmnet.com>
Rendered body type: text/plain

1995 Perseids 6M APRS Packet Radio METSCAT TEST
Ralph Wallio, W0RPK and Carl Richey, KB0QQQ

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions will occur during the first half of each minute using standard AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).

Transmissions from W0RPK will include grid locator EN31FK in the UNProto field and a date/time stamp and packet serial number in the text field, e.g., W0RPK>EN31FK:12 12:34 123456. APRS version 7.1b or later will be required to plot received packets.

W0RPK station operations will be automatic and attended during the entire test. A transmit controller will initiate 100 packets during the first half of each minute. A receive controller will

display, log and plot any packets received during the second half of each minute. Automatic station operations will be interrupted for formal or impromptu skeds. See contact information below.

Stations participating in the test will need to be within 1200 miles of central Iowa and equipped for 6M FM packet radio operations. Station operators are encouraged to forward copies of all received packets for test analysis. Test participation certificates will be awarded. QSL cards will be available for complete 2-way QSOs.

The following chart predicts 1995 Perseids meteor scatter path peaks from W0RPK. Plan participation accordingly.

Path effectivity : * = >50% ! = >75%

N				*	*	!	!	!	*	*			*	*	!	!	!	*	*						
NE													*	*	!	!	!	!	*	*	*				
E		*	*	*	*	!	*	*	*	*	*	*	*	*	*	*	!	*	*	*	*				
SE			*	!	!	!	!	!	!	!	*														
S				*	*	*	*	*	*					*	*	*	*	*	*						
SW													*	!	!	!	!	!	!	!	*				
W		*	*	*	*	!	*	*	*	*	*	*	*	*	*	*	*	!	*	*	*	*			
NW		*	!	!	!	!	!	!	!	*															
RANDOM							*	*	!	!	!	!	!	!	!	*	*								
UTC->	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	

An APRS packet radio meteor scatter test is also being conducted on 145.79MHz during the 1995 Perseids meteor shower. Our thanks to Stan Horzepa, W1LOU, and Bob Bruninga, WB4APR, for getting us moving.

For further information:

Ralph Wallio, W0RPK
Middle River Valley Radio Observatory
1250 Highway G24
Indianola, Iowa 50125

515-961-0383
W0RPK @ W0AK.IA
wallio@dsmlnet.com
Monitoring 3.818MHz and
7.258MHz during the test

14. [APRSSIG:2578] RE: GARMIN

From: <HUFFORD@PENTAGON-HQDADSS.ARMY.MIL>
Date: Tue, 1 Aug 95 15:27:07 EDT
To: <aprssig@tapr.org>
Message-ID: <199508012151.QAA31746@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

COL KENT V. HUFFORD, DIRECTOR, USAASA, DSN 656-4882, FT BELVOIR
Subject: [APRSSIG:2578] RE: GARMIN

The difference is bew between \$269 (Garmin 45 at boat show) and \$675 (Garmin 90 at airplane show) The 45 and 90 "share" most pieces and parts....Both good for what they do.

HAVE A SAFE ARMY AIRSPACE DAY *

15. Re: vox / aprs chip

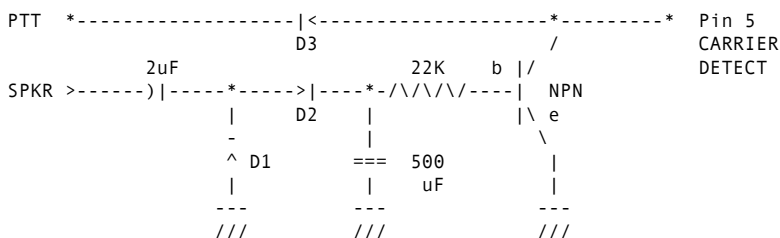
From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 1 Aug 1995 18:10:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950801171357.9151A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Since I have not made a lot of progress on the APRS chip, there is an alternative, though not quite as ideal as the original idea. If anyone has a voice network and wants to try this, then please do, and report the results here... This is for the PACCOMM TINY-2 or any other GPS-TNC with an RF carrier detect input on radio-TNC connector. Here is the idea:

- 1) Simply tie the voice radio PTT line to the carrier detect input of your TNC. (Pin 5 on the TNC)
- 2) Combine the TNC transmit audio with the MIC audio

With the above, the TNC should never transmit any packets until you have released the PTT. The problem is that it can still key up the radio when you are receiving... Here is an untested idea to solve that problem

too..



This voltage doubler turns on the transistor whenever there is audio present on the voice receiver. This keeps the 500 uF capacitor charged and therefore keeps the CARRIER DETECT pin low, thus preventing the TNC from transmitting. The long time constant of the 500 uF and 22K resistor should prevent packets for a few seconds since the last audio. When you hold your PTT, there is no audio in the speaker, so this circuit relaxes. When you release the PTT, the pin5 snaps high, and the packet goes out! To minimize the irritation level on the repeater or voice channel, users should reduce the deviation of their packet audio to less than voice levels... The only disadvantages to this circuit are:

0) The speaker may have to be relatively loud to get enough audio to activate the transistor...

1) the packet is longer than my compressed APRS packet and will take about 1 second vice .25 seconds...

2) Someone needs to see what happens to the buffered position packets! Do they just QUEUE UP, and ALL COME OUT AT ONCE when the audio channel goes quiet or when your PTT releases, or Does only 1 come out???

If only the last POSITION packet is transmitted when the channel or PTT clears, then this IS A VIABLE APPROACH FOR ADDING POSITION REPORTING TO VOICE RADIOS AND NETWORKS...

16. Re: [APRSSIG:2589] Re: 6 m & meteor test

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Tue, 1 Aug 1995 19:23:34 -0500
To: aprssig@tapr.org
Message-ID: <199508020023.TAA20481@uxa.ecn.bgu.edu>
Rendered body type: text/plain

on 8/1/95, W55R wrote,

>As far as a 6m freq and mode I think we also need a national 6m and 2m ssb
>APRS freq. It would be interesting to try e-skip, FAI, and tropo via packet.
>I will use 145.79 as I see band openings for unattended ops (if the bands
>open and I'm home APRS takes a back seat. Would like to see a freq at the low
>end of both 6 and 2 m for ssb APRS and general packet operations. Would like
>it at the low end because long boom antennas 3+ wavelengths have narrow
>bandwidths. Maybe just above the beacon subband, this could evolve into a
>new type of beacon for vhf ops. Any other thoughts on this from other VHF+
>operators or any one in general? 73 Ben W55R DM95cf
>
>

My thoughts is to go with what WD4APR had proposed since it follows the recognized band plan more. I work a lot of 6m and I know there are a bunch of beacons on the bottom end between 50.0 and 50.1 MHz. A lot of the dx beacons are located outside of the FCC designated beacon sub bands. The area between 50.080 and 50.100 is used by several cw operators including dx. These signals tend to be quite weak with marginal band openings yet can produce some spectacular dx. I'm afraid aprs packet beaconing in this area could disrupt cw dx contacts. A case in point is the sporadic e conditions to Europe that was experienced this summer. With the multi hop conditions needed to have propagation to the midwest, the signals from Europe ended up being VERY weak. I managed to make 1 contact with a station in Spain. However the single hop stations on the east coast were 40 over S9! It's tough enough to work the dx without having an unexpected packet covering up the station you are trying to work. Lets keep the bottom end clean of wide band digital signals. Thanks, Jay....

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

17. Re: [APRSSIG:2593] Re: 6 m & meteor test

From: mark@tetherless.com (Mark Oppenheim)
Date: Tue, 1 Aug 1995 19:07:07 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199508020207.TAA02985@gorgor.pa.tetherless.com>
Rendered body type: text/plain

At 07:32 PM 8/1/95 -0500, jay timothy hainline wrote:

>My thoughts is to go with what WD4APR had proposed since it follows the
>recognized band plan more. I work a lot of 6m and I know there are a bunch
>of beacons on the bottom end between 50.0 and 50.1 MHz. A lot of the dx
>beacons are located outside of the FCC designated beacon sub bands. The area
>between 50.080 and 50.100 is used by several cw operators including dx.
>These signals tend to be quite weak with marginal band openings yet can
>produce some spectacular dx. I'm afraid aprs packet beaconing in this area
>could disrupt cw dx contacts. A case in point is the sporadic e conditions
>to Europe that was experienced this summer. With the multi hop conditions
>needed to have propagation to the midwest, the signals from Europe ended
>up being VERY weak. I managed to make 1 contact with a station in Spain.
>However the single hop stations on the east coast were 40 over S9! It's
>tough enough to work the dx without having an unexpected packet covering up
>the station you are trying to work. Lets keep the bottom end clean of wide
>band digital signals. Thanks, Jay....
>
>Jay Hainline KA9CFD EN40
>Macomb,IL
>msjth@uxa.ecn.bgu.edu
>

Well, whenever there's a new mode or technique, there's always someone that
is interfered with or displaced, real or imagined. There's the AM->SSB
story, and the ever evolving digital world of
RTTY->AMTOR->PACKET->CLOVER->PACTOR->GTOR->PACTOR II....

On the other hand, I don't want to see what has happened to the 20M beacons
happen on 6M (I was one of the privlidgeed few to visit 9L1US in operation
from West Africa). However, I think (or perhaps the phrase "HOPE TO GOD"
would be a better choice) that the 6M modulation of choice will NOT be slow,
noisy, 1200 baud AFSK. Hopefully, it will be short bursts of 9600 baud
FSK/GMSK data. This is not likely to be a major source of QRM when a single
station is heard, but definitely a problem with several stations come
through during an opening when some poor OP is trying to ID a CW beacon.

Someone else can carry the "A beacon is a beacon" line, but....

I don't think that there's a compelling need to keep this in the low end of
the band. Granted, most beams are resonant there, but I don't really see
many of the dyed-in-the-wool 6M operators out there (the ones that are
currently active on voice) are going to jump into this digital MS stuff. I
believe that most of the experimenters in this mode will come from the
digital ranks, and build 6M MS stations from the ground up.

It's not a great problem to tune 6M beams for other sections of the band,
and with people like M2 out there, you basically can tell them the
frequency, and it's done. There's not a lot of 10+ element 6M beams out
there, and besides, no one in MS wants a narrow beamwidth antenna anyway.
Heck, some operators (like myself) won't even install a rotor on the beam.

So, after this shower, I hope that there will be some general consensus so
that we don't interfere with all of the other interests (*) in the lightly
loaded 6M band. Any operation this month should NOT be construed as the
"new home" of MS beacons until we have a chance to work this out on a
regional or nationwide basis...

* CW Beacons
Voice SSB
Remote Control Models
Packet Backbones
Voice Repeaters
Simplex FM

Mark
KD6KQ

18. Re: [APRSSIG:2581] Re: SIG answers

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Tue, 1 Aug 1995 22:42:52 -0400 (EDT)
To: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9508012250.A28075-a100000@acme>
Rendered body type: text/plain

On Tue, 1 Aug 1995, Bob Bruninga wrote:

> JBaum KB8JX0 Maps 100K

> If I drafted you by mistake, lemme know.

I assume that the blindness that kept me out of the draft back in the 60's/70's won't keep me out of this one (BTW - I was on the ROTC rifle team for 2 years before they decided that the "handicap" that made me a marksman, would not let me be a good officer - You can feel safe with a gun in my hand, but don't let me drive at night).

As long as someone else keeps writing the program, I'll be happy to answers the questions, give pointers, and do other starng stuff.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
"Will do maps for equipment"
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 143th most knowledgable person about A.P.R.S.

19. external power-Meridian XL??

From: Ann Reeves <annr@comtch.iea.com>
Date: Tue, 1 Aug 1995 19:56:38 -0700 (PDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.950801194541.519A-100000@comtch>
Rendered body type: text/plain

We have a Magellan Meridian XL that we are running with a Kantronics KPC3. (and usually an ICOM) in the car. Things are fine, EXCEPT the batteries in the GPS don't last very long. Can anyone tell me how they get external power to the Meridian???

Ann WA7ROS & Jim WA7RVV

20. Frequency Coordination

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 1 Aug 1995 23:18:12 -0500
To: aprssig@tapr.org, n9unr@execpc.com, nhar@execpc.com
Message-ID: <9508020418.AA08385@omnifest.uwm.edu>
Rendered body type: text/plain

All:

I am the repeater frequency coordinator for Wisconsin.

As a matter of fact we are having a WAR (Wisconsin Association of Repeaters) meeting in September. I will bring it up.

There is also going to be a MASSIVE meeting in October, being referred to as the BOM (Big October Meeting) among the coordinators on OUR remailer. I'll _try_ to get a spot on that agenda also.

Why don't you describe, in detail, what you want.

NO promises - I'll see what, if anything, I can do.

73 de Dave

David W. Barrow III, N9UNR
Wisconsin Association of Repeaters - Frequency Coordinator
Snail: 1894 Elm Drive - Town of Cedarburg
West Bend, WI 53095-9603
Phone: (414) 375-2667
Packet: N9UNR @ N9PBY.EF63BI.WI.USA.NOAM
Internet: dbarrow@omnifest.uwm.edu

21. SIG answers FAQ

From: kcSejk@onramp.net (Robert Winingham)
Date: Wed, 2 Aug 1995 00:59:25 -0500
To: aprssig@tapr.org
Cc: bruninga@greatlakes.nadn.navy.mil
Message-ID: <v01520d02ac44c08b4ddb@[199.1.11.136]>
Rendered body type: text/plain

Here are some notes on getting old archived SIG mail. I think with a little fixing up these can be added to our APRSSIG FAQ.

We need this information because it is very easy to get DE-LISTED from this group and miss mail.

We should also assign a few people to keep a complete archive of old aprssig mail and act as fillers for people who are missing a small number of mail items. I am willing to be one.

```
===== Archived Mail FAQ =====
The server archives mail by month. The archived messages do not have
APRSSIG numbers in the subject. I don't know how to get a smaller set of
messages
from the list server.
```

First send a Mail message to:

```
listproc@tapr.org
Subject : Any thing you want (I make it the same as the one line body message)
Body of message : INDEX APRSSIG -ALL
-----
```

You will get something like this back:

```
Archive: aprssig -- Files:
dec.94 (1 part, 55587 bytes) -- MacAPRS 1.1.0 Update
jan.95 (1 part, 258357 bytes) -- RIGHTIME v2.58a
feb.95 (1 part, 136014 bytes) -- Re: [APRSSIG:129] Re:
mar.95 (1 part, 487473 bytes) -- request a step by step map procedure, please.
apr.95 (1 part, 697439 bytes) -- Need APRS .INI file
may.95 (1 part, 1032541 bytes) -- Mail Archive for aprssig
jun.95 (1 part, 763893 bytes) -- Velocity in APRS to convert 2MPH
jul.95 (1 part, 484328 bytes) -- subscribe
-----
```

Now send a message to get the files or mail archive you want.

```
Send a Mail message to:
listproc@tapr.org
Subject : any thing you want (I make it the same as the one line body message)
Body of message : get aprssig jul.95
-----
```

You will get something like this back:

```
Archive APRSSIG, file jul.95.
Part 1/1 (subpart 1/8), total size 484328 bytes:
.....
(...hundreds of lines of mail)
-----
```

The archive will be sent in chunks but be ready for about 0.5 Megs per month. The format is a pain to read as it has the complete mail header and the subject line doesn't have the APRSSIG reference number. If you know how to parse it let me know.

=====

One final note:

The first message sent to a new subscriber has as the last line:

"To unsubscribe from this mailing list send a message to `listserv@tapr.org` with the following line in the body of the message:"

signoff aprssig

=====

Bob kc5ejk@onramp.net

22. Opinions ?

```
From: ljs@west.net (L.J.Shepherd)
Date: Tue, 01 Aug 1995 23:03:59 -0700
To: aprssig@tapr.org
```

Message-ID: <199508020604.XAA13828@acme.sb.west.net>
Rendered body type: text/plain

Hello APRSSIRS:

I am considering the purchase of a Garmin GPS45 as an initial platform to introduce myself to experimentation with the GPS. I would be interested in comments regarding groups opinion of this unit. A friend has kindly sent info and spec's and it appears to be versatile and a good value. Opinions expressed will be appreciated ! Thanks.

Jim K60YY

23. Re: [APRSSIG:2599] Opinions ?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 2 Aug 1995 04:12:39 -0500
To: aprssig@tapr.org
Message-ID: <v01520d01ac44f148c144@[199.1.11.108]>
Rendered body type: text/plain

>Hello APRSSIRS:

>

>I am considering the purchase of a Garmin GPS45 as an initial platform to
>introduce myself to experimentation with the GPS. I would be interested in
>comments regarding groups opinion of this unit. A friend has kindly sent
>info and spec's and it appears to be versatile and a good value.
>Opinions expressed will be appreciated ! Thanks.

>

Jim K60YY

Ton's of Garmin information in the Newsgroups: sci.geo.satellite-nav

Lots of happy (grounded) Garmin-45 users Speed limit of 99.9 kts.

73

Bob kc5ejk@onramp.net

24. Re: 6 m & meteor test

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 02 Aug 95 08:18:47 EDT
To: aprssig@tapr.org
Message-ID: <199508021219.IAA00471@gold.interlog.com>
Rendered body type: text/plain

I would have to agree, the if we are going to use FM packet for the meteor scatter test, then we should move higher up the band. In the area of 51MHz would be fine, and most of use with low band antennas should still have an antenna match less then 2:1.

I will also be on from FN03.

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

25. Superspeed APRS

From: lbutler@awod.com (Larry Butler)
Date: Wed, 2 Aug 1995 09:01:18 -0400
To: aprssig@tapr.org
Message-ID: <199508021301.JAA21218@sumter.awod.com>
Rendered body type: text/plain

I keep seeing a lot of talk about some superspeed APRS on 6 meters and other bands. These senders are looking to keep the packet length down to some short burst. This sounds good but they are failing to, in their quest for 115,200 baud, take into account some other very important factors. As speed increases, timing becomes more and more of a problem in relation to reflections (like TV ghosts) and multipath from the ionosphere. Low speed data is, because each mark/space is long, very tolerant of these reflections. This is the reason why Pactor and other modes SLOWS DOWN when conditions are bad. At 9600 baud, the superspeeds (in comparison to the time delay of a multipath signal) become critical. Yes, the data is faster, more compact, but even the tiniest amount of impulse noise is taken by the decoding program as a part of the data. The tnc's timing algorithm cannot distinguish between the data and these tiny noises. And, when a reflection arrives a few microseconds late, it confuses the program because the high speed modem decodes this late-arriving data as more bits. To illustrate this, make a 1200 baud connection to your favorite phone BBS. Start downloading

something and watch your terminal's speedometer. Pick up the phone and make some noise. 1200 baud ignores you, happily running its slow timing algorithm and transferring the data...like a snail. Low and Slow. Now call the bbs back at 28.8kbaud. If you pick up the phone, chances are the superspeed modem will IMMEDIATELY bomb completely and hang up.

Now we come back to radio. You are trying to hear a noisy, multipath packet from some DX station. The noisier the better. Let's all go to 28.8kbaud. It just won't work. If FCC let us use 28.8kbaud on 20 meters nothing would get through. If you are one of the 6meter stations, I am not because of Channel 2, I want you to try some dx at 110 baud. You can't type any faster anyway. If you are using a KAM, hook the Hf modem output to your 6 meter rig. Then reset TBAUD to some lower values. The KAM will do any baud rate on HF from 50 to 300 baud. We have tried some experiments on 20 meter packet under awful conditions using 50 baud packet. IT WORKED GREAT! I could copy some friends in Nova Scotia when the Smeter didn't move for hours! What is too bad is that the packet specs don't make some automatic speed DECREASE when packet fails and sits there retry and retries after retries until it bombs. That's one thing that Pactor and Gtor do very well.

All this fantasy with 9600 baud just won't do under weak signal, noisy conditions. A new wide spectrum modem will be needed that has a broad band multicarrier system like your 14.4k or 28.8k modems. This might be the answer.

Good Luck...Larry KN4IM lbutler@awod.com

26. Re: [APRSSIG:2596] external power-Meridian XL??

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 2 Aug 1995 09:11:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950802090926.11615H-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 1 Aug 1995, Ann Reeves wrote:
> We have a Magellan Meridian XL that we are running with a Kantronics KPC3.
> (and usually an ICOM) in the car. Things are fine, EXCEPT the batteries in
> the GPS don't last very long. Can anyone tell me how they get external power
> to the Meridian????

SURE. If you are using their data cable, just run external power in to the wire marked external power. If you invented your own cable, then limit the input votage to 6 volts! Thier cable has a 6 volt regulator in the little black bbump in the cable...

27. Known 6m MScatt stns

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 2 Aug 1995 09:43:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950802085446.11615E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

OK, we have W0RPK in IOWA and now we have 2 6m stations in Maryland. One of us will point at IOWA (west for us). Where shall the other one of us point our beams?

6M LIST (there is no 2m list cuz I hope there will be LOTS)

W0RPK IOWA
N3MNT Maryland
W3ADO Maryland
VA3MW Ontario
KN6PE Calif Bay area
KD6SQ Calif ?

28. Message not deliverable

From: "Administrator"
<Administrator%BISGEN03%CCGATE%BISVD1%MR@BISVG1.BIS.BLS.COM>
Date: 2 Aug 95 09:41:00 EST
To: "aprssig" <aprssig@tapr.org>
Message-ID: <"95849020805991/1853775@BISD"@BISVG1.BIS.BLS.COM>
Rendered body type: text/plain

----- Returned -----
From: aprssig@tapr.org@WINS@BISVG1 at CCGATE
Date: 8/2/95 8:30AM
To: brian ford at BISGEN03
Subject: [APRSSIG:2603] Re: external power-Meridian XL??

On Tue, 1 Aug 1995, Ann Reeves wrote:
> We have a Magellan Meridian XL that we are running with a Kantronics KPC3.
> (and usually an ICOM) in the car. Things are fine, EXCEPT the batteries in
> the GPS don't last very long. Can anyone tell me how they get external power
> to the Meridian????

SURE. If you are using their data cable, just run external power in to the wire marked external power. If you invented your own cable, then limit the input votage to 6 volts! Thier cable has a 6 volt regulator in the little black bbump in the cable...

29. Re: [APRSSIG:2604] Known 6m MScatt stns

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Wed, 2 Aug 1995 11:09:46 +0000
To: aprssig@tapr.org
Message-ID: <9508021503.AA05730@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

>OK, we have W0RPK in IOWA and now we have 2 6m stations in Maryland. One
>of us will point at IOWA (west for us). Where shall the other
>one of us point our beams?
Did we agree on a freq and Baud rate.

Bob Baltz	*
Chesapeake Region Sales	*
Ph: (410) 987- 8777	*
Fax: (410) 987-4489	*
E-mail bob.baltz@ustc.vlsi.com	*

30. Re: [APRSSIG:2596] external power-Meridian XL??

From: jra@ag9v.ampr.org
Date: Wed, 2 Aug 1995 07:26:01 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199508021126.HAA22227@ag9v.ampr.org>
Rendered body type: text/plain

The data cable for the Meridian includes a little box with a voltage regulator that will accept external power and feed it to the Meridian. The unit I bought at Hamvention (not an XL) included the data cable; I don't know if the same deal applies to the XL.

John

You (Ann Reeves) write:
>
>We have a Magellan Meridian XL that we are running with a Kantronics KPC3.
>(and usually an ICOM) in the car. Things are fine, EXCEPT the batteries in
>the GPS don't last very long. Can anyone tell me how they get external power
>to the Meridian????
>Ann WA7ROS & Jim WA7RVV
>

--
John Ackermann AG9V
Internet: jra@ag9v.ampr.org
Packet: AG9V@N8ACV.#DAY.OH.USA

31. Garmin Problem

From: rbarnett@traveller.com (Rob Barnett)
Date: Wed, 2 Aug 1995 11:00:52 -0600
To: aprssig@tapr.org
Message-ID: <v01510101ac455c3bd4a2@[198.79.57.152]>
Rendered body type: text/plain

Still learning about my GPS-45 that I received last week....

This has happened twice in the past four days:

The unit had been on for about 8-10 hours (running on DC power cord with no data output being used) when all of a sudden the data on the bearings screen went "blank" and the unit started beeping, the message it gave me was "turn off power and reinitt the unit" Ido not remembe reading anything about this in the SIG before... My unit has the software revision of 2.42.

If it keeps this up, I don't think it will work very well for standalone

tracking.

Robert N. Barnett
KE4GNN
Assistant Secretary/Treasurer, Huntsville Amateur Radio Club
rbarnett@traveller.com
KE4GNN@AOL.COM

32. GARMIN GPS-45

From: Sam_Lipson@berlex.com (Sam Lipson)
Date: Wed, 2 Aug 1995 09:12:38 -0700
To: aprssig@tapr.org
Message-ID: <01fa4d20@ccgate.berlex.com>
Rendered body type: text/plain

I have the Garmin GPS-45 and love it!. It and a KPC-3 (along with a transmitter) make up my mobile "tracking" station. I have a comment and a question.

Comment to Bob B.:

When the unit is in 2D navigation, the low speed accuracy appears to be +/- about 10 MPH however when in 3D navigation the accuracy at low speeds appears to be within 0.3 mph. This may be important for your low speed filter you discussed previously. The 2D nav mode is used when it does not track enough birds accurately for 3D navigation. I get this mode about 2-5% of the time because I have the stub antenna at dash level in the car and have not put up a rooftop antenna.

Question to all w/ GPS-45:

If the speed limit is 99.9 kts, and one exceeds this speed, does the data stream reflect "V" with no lat/long or is the data output still "A" accurate? Your comments would be appreciated.

73, de Sam, K06JR
Packet: K06JR@KA6FUB.#NOCA.CA.USA.NOAM
Internet: Sam_Lipson@Berlex.Com

33. Re: [APRSSIG:2608] Garmin Problem

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 2 Aug 1995 11:48:21 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508021648.LAA03618@solar.cs.tamu.edu>
Rendered body type: text/plain

Rob Barnett sez:

>
> The unit had been on for about 8-10 hours (running on DC power cord with no
> data output being used) when all of a sudden the data on the bearings
> screen went "blank" and the unit started beeping, the message it gave me
> was "turn off power and reinit the unit" I do not remembe reading anything
> about this in the SIG before... My unit has the software revision of 2.42.
>
> If it keeps this up, I don't think it will work very well for standalone
> tracking.

The first time I saw this, I called Garmin. Seems the USAF had been diddling the satellites. They called it maintenance.

I've noticed this several times lately (I usually have 3 or so GPS's up all the time now) and I suspect they've been twiddling bits up there again. It does not appear to be a problem with your set.

One thing I've NOT done is checl NOTAMS for info on tests and protocols, nor checked the GPS inof BBS's for those data. I may try later.

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu
* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

34. KPC Settings

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Wed, 02 Aug 1995 10:15:24 -0700
To: aprssig@tapr.org

Message-ID: <9508021711.AA15213@gvgadg.gvg.tek.com>
Rendered body type: text/plain

HI,

A week ago, or so, someone posted his GPS settings for his KPC3. I thought that I had saved that message away in a safe place so I could find it again (oh well you know how that goes). Now that I am getting ready to use my KPC-9612, with ver 6.0 software, for GPS I would like to see that info again to help get things setup.

So, could someone please forward that message along again?

Randy
WA2AGE

Randy Hall
Grass Valley Group

35. Re: [APRSSIG:2611] KPC Settings

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Wed, 2 Aug 1995 11:10:38 -0700
To: aprssig@tapr.org
Message-ID: <v01510104ac456e561842@[128.149.100.84]>
Rendered body type: text/plain

>So, could someone please forward that message along again?

And could someone please POST it again? Thanks.

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

36. Re: [APRSSIG:2581] Re: SIG answerers

From: quarry@q.continuum.net (Chip Griffin)
Date: Wed, 2 Aug 1995 16:59:36 -0400
To: aprssig@tapr.org
Message-ID: <v01520d00ac4596e238a3@[199.0.52.67]>
Rendered body type: text/plain

>To help avoid duplicative efforts, I recomend that we get several
>volunteers to answer ALL messages on certain subjects. By knowing who
>these people are, it allows the rest of us to relax and not feel
>compelled to answer every single message. Anyone is still WELCOME to
[...]
>Again, the purpose of the list is simply to provide a safety net to be
>sure that everyone's question is guaranteed at least ONE answer from a
>knowldegable person...

I think it's a good idea but I would like to recommend that each position also hold an alternate so that if the designated individual goes away on vacation or can't reply immediately (for whatever reason), they can either plan ahead for the alternate to fill in, or after a slight delay with no response from the primary the alternate can step in.

I don't know about others, but with rare exception I check my email at least TWICE every day and sometimes more than a dozen. The only exceptions to this are when (a) I got to VT/NH to spend time with my parents/in-laws or (b) when I go away on vacation (like soon to FL for six days).

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@nlokk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

http://q.continuum.net/~quarry/quarry_home.html

37. Re: [APRSSIG:2602] Superspeed APRS

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Wed, 02 Aug 95 11:24:28 UTC

To: aprssig@tapr.org
Message-ID: <2547@paccomm.com>
Rendered body type: text/plain

Comments on Meteor Scatter vs HF (re: Larry Butler)

When a meteor ionizes strongly, the signals reflected come in at a good strong level, not the 'weak signal' referred to.

Since the ionized patch is small, there is very little multi-path.

Higher speeds will work just fine.

What one would hear is silence followed by a strong clear signal as a meteor ignites, with the signal gradually falling in intensity as the ionized trail dissipates. Gradually meaning a few seconds or maybe ten seconds.

The ideal protocol for moving data would be full duplex. The station with data to send (one of the stations if both have queued data) continuously blasts out a short frame over and over to the other. (this frame contains data header info such as file name, or frame number if in the middle of a file, etc.

As soon as the other station copies the frame, it acknowledges (full duplex remember) and hammers out the ACK. As soon as the data sending station hears the ack, it begins to dump sequential frames at max rate. It does not wait for acks, but will accept fill requests (usually filled on the next meteor). While the sending station does not wait for acks, it does accept and log them. When it stops hearing acks, it can assume the path is lost and returns to hammering out the 'opening frame.' Now it is clear what should be in the 'opening frame,' the oldest NAKed frame followed (after the path opens again) by the remaining NAKed frames and then some new ones.

It also looks like the 'receiving station' should include the highest frame number received and a list of fills needed in its ACK or NAK message.

Of course if we had this selective reject protocol with modulo 128 or 256 frame numbering we could do a lot to improve backbone links and satellite links....

But back to the basic point - ms provides an intermittent path, but not a bad path.

Gwyn

Gwyn Reedy, WIBEL gwyn@paccomm.com WIBEL@amsat.org
+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

38. Meteor Scatter APRS cautions

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 2 Aug 1995 17:52:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950802155251.16923A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Consider the following notes when operating APRS for packet MScat:

- * Only versions 71c and later will decode GRID SQUARES in the TO field
- * Since a GdSq packet is treated as a POSIT, it will only show up on the P-LIST, D-LIST, HEARD log, and MAP. It will NOT show up on the A-list nor on the L-LIST (after the first one).
- * Packets with the MScat format (^HP) will be plotted with their beam headings on the map and the power is indicated in the P-list comments.
- * Alt-B can be used to replace the (^HP) format with any BText
- * Any other BText will appear at the receiving station in the P-list.
- * ALL versions of APRS must see at least 3 characters in the BText or the packet is ignored. That's one reason for the 3 char MS report (^HP).

***** THIS MEANS THAT APRS WILL NOT SEE NULL PACKETS: WB4APR>FM19DX:

You will NOT see someone using only a bare TNC with the grid square in the UNPROTO path and hitting dozens of ENTER keys to make lots of packets. They must put at least 3 chars in their BTexts and set BEACON to every 1.

Its too late to fix this for this event! Everyone that is using APRS will

see all other APRS MS stations, so I doubt we will miss anything. No one is actually going to sit at their TNC for 4 days straight and hit the ENTER key anyway...

Here is a chronological list of versions relative to MS mode only:

72b Added DIRECT filter so you can filter out all VIA DIGI packets
72a no record of MS changes
72 Added MS Send in the TO field INCLUDING POWER and HEADING.
71c Introduced MS mode with GridSq receive in TO field. Select alt-S-MODES-mscaT. (or CONTROLS-FILTERS-GDSQ, I forget which)

RECOMMENDATION: Use version 72b if possible. Try it first with a friend!
If you are sending TNC packets only, be sure to include at least 3 characters in the packet.

39. Re: SIG answerers (fwd)

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Wed, 2 Aug 1995 17:54:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950802084252.11615C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Here is the current list of ANSWER MEN for frequently asked questions. These guys will serve as a safety net to guarantee that most questions will at least get answered by someone... Anyone is still WELCOME to kibitz and offer their opinion, but at least these volunteers will assure that nothing falls through the cracks..

Bruninga	WB4APR	APRS
KSproul	WU2Z	MacAPRS
Gcreager	N5JXS	Motorola GPS
rwf	N4QAE	Garmin GPS
???		Magellan GPS
JGirard	ND1L	subscribe/unsubscribe
JWyatt		Civil Air Patrol
GReady	W1BEL	PACCOMM
JBaum	KB8JX0	Maps 100K
Bruninga	WB4APR	Maps 2,000,000
JBenton		MFJ 1200/9600 baud radios

If I drafted you by mistake, lemme know. Also, if you have a favorite subject, sign up. I will maintain this list and periodically share it.

40. Single points again

From: wnolle@ro.com (William Nolle)
Date: Wed, 02 Aug 1995 17:55:05
To: aprssig@tapr.org
Message-ID: <199508022302.SAA09444@sh1.ro.com>
Rendered body type: text/plain

Hi there APRS mapmakers, i would think by now there would have been someone with some programming skill that also makes maps write a little program that would delete or at least mark those pesky single line points. All it would take that it would pick out anything that has less then 3 lines between the 0,0 points in the file (All valid points have at least 3 lines) between the 0,0 Now you notice i said ALL IT WOULD TAKE, not being a programmer i don't know if this would be a small or big job Hi Hi. I find that removing (Editing) out the single point lines is a bigger job then actually building the map from the 1:100,000 CD Rom. By the way i have made 8 maps of the Huntsville Alabama area with great detail, specially the downtown area map. Bob i think doing it this way still beats digitizing!.

Bill KE4EER
wnolle@ro.com

41. Re: [APRSSIG:2616] Re: SIG answerers (fwd)

From: DKAPLAN@netins.net (David Kaplan)
Date: Wed, 02 Aug 1995 21:07:11 -0500
To: aprssig@tapr.org
Message-ID: <199508030207.VAA16908@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

>

>Here is the current list of ANSWER MEN for frequently asked questions.
>These guys will serve as a safety net to guarantee that most questions
>will at least get answered by someone... Anyone is still WELCOME to
>kibitz and offer their opinion, but at least these volunteers will assure

```
>that nothing falls through the cracks..
>Bruninga WB4APR   APRS
>KSproul  WU2Z     MacAPRS
>Gcreager N5JXS    Motorola GPS
>rwf      N4QAE     Garmin GPS
>???      Magellan GPS
>JGirard  ND1L     subscribe/unsubscribe
>JWyatt   Civil Air Patrol
>GReady   W1BEL     PACCOMM
>JBaum    KB8JX0    Maps 100K
>Bruninga WB4APR   Maps 2,000,000
>JBenton  MFJ 1200/9600 baud radios
```

How about the E-Mail info for the individuals above?

42. Re: [APRSSIG:2581] Re: SIG answerers

```
From: moyers@ibm.net
Date: Wed, 02 Aug 95 22:16:16
To: aprssig@tapr.org
Message-ID: <9508030525.AA0084@localhost>
Rendered body type: text/plain
```

```
> Bruninga WB4APR   APRS
> KSproul  WU2Z     MacAPRS
> Gcreager N5JXS    Motorola GPS
> rwf      N4QAE     Garmin GPS
>          ^^^^^
```

Correction N4NEQ for RWF.

```
> ???           Magellan GPS
```

Bob, now for my question, who is the expert on the Magellan's? I just acquired a Trailblazer XL which does claim to output NMEA in selections 0183A, 0183B, 0183C. The output for NMEA 018B is RMC and RMB. Will this unit work? By the Way Bob I guess I now need to send you a request for the GPS registration, never really thought I would use/need it....grin.

Also the unit is a Differential gps and claims to measure speeds upto 900 MPH, This I WILL NOT BE TESSTING. I will confess to testing it to 80 MPH and it does quite well with 5 birds in view. So if It works with APRS, I am well satisfied at its 299.95 sticker price.

73,
John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

43. Re: [APRSSIG:2601] Re: 6 m & meteor test

```
From: Rudy Benner <bennerr@onlink1.onlink.net>
Date: Thu, 03 Aug 1995 05:28:49 -0400
To: aprssig@tapr.org
Message-ID: <9508030921.AA14843@onlink1.onlink.net>
Rendered body type: text/plain
```

At 07:27 8/2/95 -0500, you wrote:

```
>
>Mike Walker                               mwalker@interlog.com
>127 High St. W.                          rf: va3mw@va3bbs
>Mississauga, ON
>LSH 1K4
```

```
>
>
Hey, Mike. Have not seen or heard from you in a while. Hope all is well with you. All OK here.
I missed MS for a couple of years, might try it this year with the APRS setup.
```

```
Rudy Benner
Timmins Ontario
Email - bennerr@onlink.net
ve3bdr@amsat.org
ve3bdr@ve2noq.ampr.org
```

44. Re: [APRSSIG:2618] Re: SIG answerers (fwd)

```
From: "G.E. Griffin" <quarry@q.continuum.net>
Date: Thu, 3 Aug 1995 05:31:07 +0000
To: aprssig@tapr.org
Message-ID: <Pine.3.87.9508030507.C804-0100000@q.continuum.net>
Rendered body type: text/plain
```

On Wed, 2 Aug 1995, David Kaplan wrote:

> How about the E-Mail info for the individuals above?

I thought about that too. I am not sure there would be tremendous benefit to it though. Part of the idea of the list is to share information. The biggest reason to have those email addresses would be to email them instead of asking common questions on the list, but if you know enough to know that you probably have been around long enough to know the answer. In other words I don't think it will actually accomplish too much.

On the other hand, I would like to have their addresses just in case I have a highly specific question that I don't want to bother the list with. Hopefully they will be smart enough to publicly post responses to common questions they have seen in private email.

73s - Chip (remote from work)

45. Re: [APRSSIG:2619] Re: SIG answerers

From: "G.E. Griffin" <quarry@q.continuum.net>
Date: Thu, 3 Aug 1995 05:38:25 +0000
To: aprssig@tapr.org
Message-ID: <Pine.3.87.9508030525.E804-0100000@q.continuum.net>
Rendered body type: text/plain

On Wed, 2 Aug 1995 moyers@ibm.net wrote:

> Also the unit is a Differential gps and claims to measure speeds upto 900 MPH, This I WILL NOT BE
> TESSTING. I will confess to testing it to 80 MPH and it does quite well with 5 birds in view. So
> if It works with APRS, I am well satisfied at its 299.95 sticker price.

Where did you get that price? I might be interested in one (as a second unit, I have a Garmin GP540) for that price.

73s de Chip
quarry@q.continuum.net
griffge@nu.com

46. Re: [APRSSIG:2621] Re: SIG answerers (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 3 Aug 1995 08:02:17 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508031302.IAA18508@solar.cs.tamu.edu>
Rendered body type: text/plain

G.E. Griffin sez:

>
>
>
> On Wed, 2 Aug 1995, David Kaplan wrote:
>
> > How about the E-Mail info for the individuals above?
>
> On the other hand, I would like to have their addresses just in case I
> have a highly specific question that I don't want to bother the list
> with. Hopefully they will be smart enough to publicly post responses to
> common questions they have seen in private email.

Mine's in the standard .signature, but for the record,

gerry@cs.tamu.edu

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

47. Re: [APRSSIG:2621] Re: SIG answerers (fwd)

From: DKAPLAN@netins.net (David Kaplan)
Date: Thu, 3 Aug 1995 08:46:49 -0500
To: aprssig@tapr.org
Message-ID: <199508031346.IAA23184@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

>
>

>On Wed, 2 Aug 1995, David Kaplan wrote:
>
>> How about the E-Mail info for the individuals above?

>
>On the other hand, I would like to have their addresses just in case I
>have a highly specific question that I don't want to bother the list
>with. Hopefully they will be smart enough to publicly post responses to
>common questions they have seen in private email.
>
>73s - Chip (remote from work)
>
>
Exactly--I have questions for other Civil Air Patrol members and do not want
to take up the bandwidth discussing upcoming CAP events, rules, regs that
effect only the CAP guys etc...

Dave

48. Re: [APRSSIG:2617] Single points again

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 3 Aug 1995 09:54:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950803095308.20292A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Wed, 2 Aug 1995, William Nolle wrote:

> Hi there APRS mapmakers, i would think by now there would have been
> someone with some programming skil that also makes maps write a little
> program that would delete or at least mark those pesky single line points.

APR REPLY: Its done. Its in MAPFIX15, but I havent posted it yet. It
will be in aprs72c whenever....

49. Sig Answerers

From: Jesse Girard <girard@netcom.com>
Date: Thu, 3 Aug 1995 06:59:23 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9508030637.A3114-0100000@netcom5>
Rendered body type: text/plain

For thos who want my email address, see below:

And yes, regarding vacations: I'll be away toward the end of August. Of
course, it doesn't take specialized knowledge to know to how subscribe
and unsubscribe.

Best Regards
Jess Girard ND1L

email: Routine text girardj@delphi.com
Data girard@panix.com or girard@netcom.com
FTP ftp.netcom.com (ftp/pub/gi/girard/jess)

50. CAP

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Thu, 3 Aug 1995 09:22:49 -0500
To: aprssig@tapr.org
Message-ID: <9508031422.AA06936@omnifest.uwm.edu>
Rendered body type: text/plain

As a "retired" LTC may I offer the suggestion that by putting CAP
messages on this re-mailer you may spark some interest and recruit a
few new members. (I assume that you are still - "looking for a few
good persons")

73 de Dave

David W. Barrow III, N9UNR
Wisconsin Association of Repeaters - Frequency Coordinator
Snail: 1894 Elm Drive - Town of Cedarburg
West Bend, WI 53095-9603
Phone: (414) 375-2667

Packet: N9UNR @ N9PBY.EF63BI.WI.USA.NOAM
Internet: dbarrow@omnifest.uwm.edu

51. Re: [APRSSIG:2627] CAP

From: DKAPLAN@netins.net (David Kaplan)
Date: Thu, 3 Aug 1995 10:44:48 -0500
To: aprssig@tapr.org
Message-ID: <199508031544.KAA24588@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

>As a "retired" LTC may I offer the suggestion that by putting CAP
>messages on this re-mailer you may spark some interest and recruit a
>few new members. (I assume that you are still - "looking for a few
>good persons")
>

>73 de Dave

Perhaps you are right-let's find out.
My name is Dave Kaplan. I have been in CAP for 21 years. I am currently living in SIoux City, IA and am with Nebraska Wing. I have been working with AZ wing CAP who is using APRS extensively. I am doing my first "real" demo at a practice SAR this weekend and will demonstrating APRS to the NE Wing on the 26. I have learned how to make 1:2,000,000 maps from the internet and now have the ability to make a map of anywhere in NE,MN,IA,SD,KS or MO in under 10 minutes from the downloaded files on my laptop. This will work perfectly when you don't know where you are going to be based for a REDCAP (Actual Search). If I get sent to a different location I can download the raw data from the internet in about 10 minutes to make the maps. I have been in contact with the author of the program to convert 1:100,000 to APRS trying to see about using the 1:100,000 files on the internet rather than having to buy the CD ROM. Am still waiting for answers from him.

I will be attending CAP National Boards in Washington, D.C. in two weeks and am wondering if any other CAP members that are part of this SIG would like to get together and compare notes. I am rooming with Mike Marrek, the NDRN (National Digital Radio Network) coordinator so I will have plenty of time to "bend his ear" about APRS.

Dave
NE0272@NE0041
WB0WNX@NF0N

52. Downloading APRS .HST Files

From: Ralph Wallio <WALLIO@dsl1.dsmnet.com>
Date: Thu, 3 Aug 1995 11:06:48 -0500 (CDT)
To: paul@paccomm.com, aprssig@tapr.org
Message-ID: <950803110648.148f@dsl1.dsmnet.com>
Rendered body type: text/plain

TO : Paul Evans, W4/G4BKI paul@paccomm.com
: aprssig@tapr.org
FROM : Ralph Wallio, W0RPK wallio@dsl1.dsmnet.com
SUBJECT: Problems with replaying downloaded APRS .HST files
DATE : 03 Aug 95

Paul,

I note that you are having problems replaying APRS HABETnn.HST files downloaded from ftp.tapr.org. I rechecked the path and have discovered an interesting quirk. You are correct, data in the original APRS generated .HST files has been significantly modified. Modified files have been checked for APRS replay compatibility before upload. The quirk has to do with the downloading process.

My test of downloading HABETnn.HST files finds problems when the FTP link is set for BINARY rather than ASCII. When .HST files are downloaded using BINARY, I receive only <LF>s at the end of each line instead of <CR>s and <LF>s. APRS appears to need the <CR>s because replaying files without them causes APRS to blow up. When .HST files are downloaded using ASCII, I receive <CR>s and <LF>s. APRS replays the files with no problem.

Bob, WB4APR, may not be able to program around the problem in future releases. The fix appears to be for us to set our FTP links to ASCII before transferring .HST files.

53. Hello

From: Jerry Wyatt <jwyatt@amex-trs.com>
Date: Thu, 03 Aug 95 08:59:37 -0700
To: aprssig@tapr.org
Message-ID: <9508031559.AA37433@lineng.ipc.amex-trs.com>
Rendered body type: text/plain

Hello all APRS'ers,

I'm new here so let me intro myself:
Jerry Wyatt 1st Lt CAP Arizona Wing (APRS Tech)
N7QVU @ KC7Y.AZ
jwyatt@amex-trs.com
w) 602-492-2545

I agreed to assist with CAP questions mostly regarding APRS and what we are doing with the system. I can also answer basic questions about CAP, but have only been a member for 1 1/2 years.

I got involved with APRS 2-3 years ago, and have been testing all aspects of it. I also had a lot to do with the latest wave of TNCs that support GPS. I beta tested PACCOMM, TAPR, and Kantronics TNCs before they were released.

Last year AZ Wing of CAP(Civil Air Patrol) was given the task of testing the possibility of using APRS for our mission. It has been tested for Ground Teams and also in the airplanes. Nine planes and several ground teams are running a remote APRS system...GPS w/TNC. It allows the mission coordinator and others to know the locations of all(nine) planes during a mission. The project happened about the same time that CAP installed ARNAV Star 5000 GPS in ALL planes. So therefore we/CAP are gaining a lot of experience with GPS, prior we were using Loran to assist in searching and identifying location on the ground.

I also have the USGS cd-roms and have created many maps for AZ, for hams and CAP use. I also run a LLBBS that has about 200 users that most locally pull the latest version of APRS from. I have many out-of-state callers also. The LLBBS # is 602-938-7528. I supporting APRS in AZ, I have given many lectures/programs to the ham and CAP community. We also did a real-time demo at CAP National Convention last August.

Hope this info is enuf to let you know where I'm coming from!

jw

The opinions expressed in this message are those of the author only,
and do not necessarily reflect the opinions of American Express.

54. APRS HF/VHF streaming

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 3 Aug 1995 14:28:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950803135819.22204B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On 3 Aug 1995, Al Lee wrote:

> Since you have incorporated the ability to transmit on two freqs via the
> KAM (and others), I suggest that when you type "S" to send a
message, you be allowed to append the To station with /H or /V.

APR REPLY: There is a way to do this already. Operate the KAM as a GATEway only. Then on the 2 meter side, routing via HF or VHF is simply a matter of the UNPROTO path. Operate a second APRS station on 2 meters and use the SEND xxxxxx/YY command to select a YY path that has GATE in it.

This is what I do from my home on 2m via the HF gate at my office.

Clearly this is not the best solution for the KAM owner, but it is usable by everyone else. My hesitation at adding the STREAM switches into the code, is the added modules, and thehassle of keeping track of what stream you are on...

55. APRS Answer Persons

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 3 Aug 1995 14:48:24 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950803143935.22204E-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

Here is the current list of ANSWER MEN for frequently asked questions. These guys will serve as a safety net to guarantee that most questions will at least get answered by someone... Anyone is still WELCOME to kibitz and offer their opinion, but at least these volunteers will assure that nothing falls through the cracks..

bruninga@nadn.navy.mil	WB4APR	APRS
KSproul@noc.rutgers.edu	WU2Z	MacAPRS
Gerry@cs.tamu.edu	N5JXS	Motorola GPS
rwf@mindspring.com	N4NEQ	Garmin GPS
???	Magellan	GPS
Girard@netcom.com	ND1L	subscribe/unsubscribe
JWyatt@amex-trs.com	N7QVU	Civil Air Patrol
Gwyn@paccomm.com	W1BEL	PACCOMM
JBaum@freenet.columbus.oh.us	KB8JX0	Maps 100K
bruninga@nadn.navy.mil	WB4APR	Maps 2,000,000
Jeff.Brenton@espi.com	MFJ 1200/9600	baud radios

If I drafted you by mistake, lemme know. Also, if you have a favorite subject, sign up. I will maintain this list and periodically share it.

56. Re: [APRSSIG:2617] Single points again

From: jra@ag9v.ampr.org
Date: Thu, 3 Aug 1995 08:01:14 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199508031201.IAA25325@ag9v.ampr.org>
Rendered body type: text/plain

You (William Nolle) write:

>

>Hi there APRS mapmakers, i would think by now there would have been
>someone with some programming skill that also makes maps write a little
>program that would delete or at least mark those pesky single line points.
>All it would take that it would pick out anything that has less then 3 lines
>between the 0,0 points in the file (All valid points have at least 3 lines)
>between the 0,0 Now you notice i said ALL IT WOULD TAKE, not being a
>programmer i don't know if this would be a small or big job Hi Hi. I find that
>removing (Editing) out the single point lines is a bigger job then actually
>building the map from the 1:100,000 CD Rom. By the way i have made 8 maps
>of the Huntsville Alabama area with great detail, specially the downtown area
>map. Bob i think doing it this way still beats digitizing!.

I'm working on a program that does this, among other things. It's at least a couple of weeks away from being ready, and the code is ugly, but it may be useful to some folks.

It will work as follows, using the .dat file produced by makemap or usgsmapi (it does its own point trimming, so you don't need the "every Xth point" routine that those programs apply to the .dat file when they create the .map file):

1. Delete adjacent duplicate points -- large scale maps from USGS are full of 'em, probably from the rounding process. This alone can reduce the number of points by a large percentage.
2. Delete single-point features.
3. Delete the third point of a three-point feature if it's the same as the first point (ie, the feature is a straight line that doubles back).
4. (I'm still working on this part) Delete "tiny features" where "tiny" is defined by some total line length, or total enclosed area, parameter.
5. Finally, trim every Xth point, with X selected by the user.

The goal of this program is to make it easier to make large scale maps (my project is a set of maps showing the Great Lakes shoreline). I've started with .dat files of over 20,000 points and wrestled them down to the point where they're small enough to get into mapfix to do final manual editing, with the end result a map of maybe 2500 points showing the entire Lake Superior shoreline.

When this is finished, I'll upload it to APR and let him decide whether to include it in a distro.

73,

--
John Ackermann AG9V
Internet: jra@ag9v.ampr.org
Packet: AG9V@N8ACV.#DAY.OH.USA

From: "Samuel T. Nabkey" <wj8t@w8dc.ampr.org>
Date: Sat, 05 Aug 95 04:55:09 UTC
To: aprssig@tapr.org
Message-ID: <31873@w8dc.ampr.org>
Rendered body type: text/plain

I have a Garmin 45. I interfaced it to my KPC-3 in about 15 Minutes. The unit operates just fine. I use the included antenna as an external antenna using a Radio Shack Cellular phone extender. (Has suction cups to hold the thing to a window.)

73!

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Thu, 3 Aug 1995 16:36:13 -0500
To: aprssig@tapr.org
Message-ID: <02120d00ac46f1084db6@[138.87.2.109]>
Rendered body type: text/plain

CIBA high-altitude balloon launch is scheduled for Saturday, August 5, 1995. Launch time for the helium filled 1200 gram balloon is set for approximately 9:00am CDT from Washington, IL. Estimated maximum altitude, 85,000 feet.

Recovery operations will use Metamora repeater 147.255+, and Toluca repeater 146.895-, DF car to car frequency will be 146.415 mHz. There may be other repeaters to the East used if needed.. A special event station is planned to operate an hour before launch until touchdown using call N9MSG on 7.235 mHz.

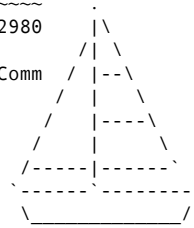
//////////////////////////////////////
 Larry M. Keeran ISU IS - Data Processing Equip Tech lmkeeran@ilstu.edu
 EC McLean Co-Pres CIRC-CIPRUS,Inc-APRSM-APRS k9orp.ampr.org (44.72.126.97)
 wireless path: k9orp via ILGRD1 k9orp@wb9uus.ampr.org (44.72.123.97)
 //////////////////////////////////////

From: paul@paccomm.com
Date: Thu, 03 Aug 95 17:45:54 UTC
To: aprssig@tapr.org
Message-ID: <2695@paccomm.com>
Rendered body type: text/plain

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~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980  
Fax:+1 (813) 872-8696  
Views expressed here are not necessarily those of PacComm  
Don't surf the net, SAIL it!  
Captain of S/V "Spindrift", Dunedin, FL.  
Tall rig (58'), Winged Keel (4' 2"), full batten main  
~~~~~

PacComm Packet Radio Systems
4413 N. Hesperides St., Tampa, FL 33614-7618



60. Re: [APRSSIG:2629] Downloading APRS .HST Files

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 3 Aug 1995 17:32:18 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508032232.RAA26475@solar.cs.tamu.edu>
Rendered body type: text/plain

See if you can find a utility called 'unix2dos' and use that to correct the problem. Basic is pretty dain bramaged when it comes to dealing with line terminators.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

61. 6M APRS METSCAT Info Part-II

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>
Date: Thu, 3 Aug 1995 17:56:30 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950803175630.1779@dsm1.dsmnet.com>
Rendered body type: text/plain

1995 Perseids 6M APRS Packet Radio METSCAT Test
Ralph Wallio, W0RPK and Carl Richey, KB0QQQ

Test Information Part-II

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions will occur during the first half of each minute using standard AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).

Packet transmissions will use standard 1200BPS AFSK on FM as typically used in local packet radio networks. Beam headings will be controlled by 2-way QSO attempts, by requests for specific beacon paths and to take advantage of predicted path peaks.

Claiming a complete METSCAT QSO requires both stations to receive and display a minimum of one packet containing both calls, one packet containing a signal report and one packet containing a signal report acknowledgment. I suggest the following protocol for 2-way packet radio METSCAT QSO attempts:

- 1) Both stations transmit multiple packets (100+) for 30-second intervals with the opposite call in the UNProto field. (W0RPK will transmit in the first half of each minute.)

W0RPK>WB4APR: (no text) 00-30 seconds

WB4APR>W0RPK: (no text) 30-60 seconds

- 2) When either station displays one or more packets containing both calls, that station will add a short signal report in their text field. Reports will be 'Snn' with nn being the total number of packets received.

W0RPK>WB4APR: (no text) 00-30 seconds

WB4APR>W0RPK:S10 30-60 seconds

- 3) When either station displays one or more packets containing their signal report, that station will add 'R' in their text field indicating receipt of their signal report.

W0RPK>WB4APR:S3 00-30 seconds

WB4APR>W0RPK:S25R 30-60 seconds

- 4) When either station displays one or more packets containing acknowledgment of their signal report, they will add 73 in their text field indicating receipt of the acknowledgment.

W0RPK>WB4APR:S27R 00-30 seconds

WB4APR>W0RPK:S65R73 30-60 seconds

- 5) Both stations must display calls, signal reports and acknowledgments before the QSO is complete.

W0RPK>WB4APR:S32R73 00-30 seconds

WB4APR>W0RPK:S72R73 30-60 seconds

Each station should transmit as many UI packets as possible in it's assigned 30-second interval. W0RPK will be using a transmit controller running a simple program to save wear on the <ENTER> key (and operators).

For further information:

Ralph Wallio, W0RPK	515-961-0383
Middle River Valley Radio Observatory	W0RPK @ W0AK.IA
1250 Highway G24	wallio@dsmnet.com
Indianola, Iowa 50125	Monitoring 3.818MHz and
	7.258MHz during the test

62. Re: [APRSSIG:2628] Re: CAP

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Thu, 3 Aug 1995 20:53:41 -0500
To: aprssig@tapr.org
Message-ID: <9508040153.AA18427@omnifest.uwm.edu>
Rendered body type: text/plain

What is the National Digital Radio Network????
Dave

63. Re: [APRSSIG:2630] Hello

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Thu, 3 Aug 1995 21:01:08 -0500
To: aprssig@tapr.org
Message-ID: <9508040201.AA22243@omnifest.uwm.edu>
Rendered body type: text/plain

Hello back.

Thanks for all you are doing. I remember my days - before ELTs.
Life goes on. I appreciate all I learned from CAP - and all of the
Wonderful people in the Fla and Calif wings.

Dave Barrow

64. Re: [APRSSIG:2617] Single points again

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Thu, 3 Aug 1995 22:04:56 -0400 (EDT)
To: William Nolle <wnolle@ro.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9508032249.A11156-b100000@acme>
Rendered body type: text/plain

Helpful hint # 2 (until the mod mapfix15 come out).
I do one 15' section at a time, at one layer (road level 3, Streams, etc)
and work on it till i get the points down, then go with the next level.
This way, I am dealing with a smaller number of points to play with. Once
I have all the levels done, then I import them into one map, and go on to
the next 15' section. If you try to do all the levels at once, you will over
load your self with single point lines.

Helpful hint #3 - Use 4500 as your Points per degree, with
the map center in the center of the 15' quad you are working on. 4500 with
over lap the 15' box a little, and if you are centered, you will not get
the single point lines (a lot of the periminter lines, but they are easier

to handle) - I always make a "overlay/starter" map of the area that I want to map, and divide it into 15' segments with white lines, and use it to import the USGS info into. This way you have a good idea what area your USGS data covers, and if your PPD box is big/small enough.

(I can normally crank out a 15' section with level 1 thru 6 roads, major streams & WB's in a 3 to 4 hour sitting, and have it come in at around 2,000 points.)

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
"Will do maps for equipment"
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 143th most knowledgable person about A.P.R.S.

65. APRS on voice rpters

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Thu, 3 Aug 1995 22:22:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950803220401.24216G-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I am about ready to begin testing of my widget for putting your stand-alone-tracker packets onto the tail end of your voice transmissions. I need some GOOD beta testers. Here are the requirements:

- 1) You must have a GPS and stand-alone-tracker
- 2) You must be a hanko and VIP in your repeater organization. ie, you must be able to make a lot of noise on your repeater (packets) without someone turning off the repeater on you!
- 3) You must have frequent access to the repeater to install a TNC and a extra packet transceiver, and extra visits for troubleshooting and tweaking
- 4) You must be willing and able to install my small circuit board inside your TNC and find all the appropriate attachment points.
- 5) You must fully understand AX.25
- 6) You must be willing and able to tinker with the repeater controller and packet TNC to optimize the interface between them.

If you are interested, lemme know!

66. Re: [APRSSIG:2622] Re: SIG answerers

From: moyers@ibm.net
Date: Thu, 03 Aug 95 23:26:41
To: aprssig@tapr.org
Message-ID: <9508040629.AA0103@slip7-75.fl.us.ibm.net>
Rendered body type: text/plain

> On Wed, 2 Aug 1995 moyers@ibm.net wrote:
>
> > Also the unit is a Differential gps and claims to measure speeds upto 900 MPH, This I WILL NOT BE
> > TESSTING. I will confess to testing it to 80 MPH and it does quite well with 5 birds in view.
> So
> > if It works with APRS, I am well satisfied at its 299.95 sticker price.
>
> Where did you get that price? I might be interested in one (as a second
> unit, I have a Garmin GPS40) for that price.

I got this this at Nashville Sports, I have since seen them listed in the U.S. Calvery, INC. catalog for the same price.....so this seems to be list.

John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

67. Re: [APRSSIG:2642] APRS on voice rpters

From: rwf <rwf@mindspring.com>
Date: Thu, 3 Aug 1995 23:37:04 -0400
To: aprssig@tapr.org
Message-ID: <199508040337.XAA06381@dylan.mindspring.com>
Rendered body type: text/plain

At 09:35 PM 8/3/95 -0500, you wrote:
>I am about ready to begin testing of my widget for putting your
>stand-alone-tracker packets onto the tail end of your voice transmissions.
>I need some GOOD beta testers. Here are the requirements:
>1) You must have a GPS and stand-alone-tracker

Got it

>2) You must be a hanchu and VIP in your repeater organization. ie, you
>must be able to make a lot of noise on your repeater (packets) without
>someone turning off the repeater on you!

Own all 12 repeaters!!

>3)

You must have frequent access to the rpeater to install a TNC and a extra
>packet transceiver, and extra visits for troubleshooting and tweaking

Yes

>4) You must be willing and able to install my small circuit board inside
>your TNC and find all the appropriate attachment points.

Which of my 5 tnc's would you like?

>5) You must fully understand AX.25

Maybe not FULLY, but I think Enough.

>6) You must be willing and able to tinker with the repeater controller
>and packet TNC to optimize the interface between them.

I tinker with it all the time anyway

>

>If you are interested, lemme know!

>

Consider yourself let know

>

73

\Ralph

68. gps web page..

From: sneaker@mindspring.com (Chris Jernigan)
Date: Fri, 04 Aug 1995 00:50:50 -0400
To: aprssig@tapr.org
Message-ID: <199508040451.AAA19613@dylan.mindspring.com>
Rendered body type: text/plain

Here is a neat web page address with some magellan and garmin units.. etc..
take a look..
<http://www.vitinc.com/nn/mud/el/el1.html>

have fun
CJ-KC4KCN

69. more GPS pages

From: sneaker@mindspring.com (Chris Jernigan)
Date: Fri, 04 Aug 1995 00:58:30 -0400
To: aprssig@tapr.org
Message-ID: <199508040459.AAA20829@dylan.mindspring.com>
Rendered body type: text/plain

also try this one.. for navstar gps home page..
<http://tycho.usno.navy.mil/gpscurr.html>
cj

70. [APRSSIG:2583] RE: MFJ-86

From: jeff.brenton@espi.com
Date: Fri, 04 Aug 95 00:36:14 -0500
To: aprssig@tapr.org
Message-ID: <9508040036.00UJ01I@espi.com>
Rendered body type: text/plain

"Drop dead dates only work if you enforce them"...

True, Dave, but I'd figured two months was PLENTY of time for MFJ to
deliver something they SAID was "in stock, ready for shipment"...

NOTE OF WARNING: Several people at R&L told me that you can NEVER
count on MFJ to ship ANYTHING on time. If it is in stock at the dealer,
that's the only "guaranteed" shipment. Larry at R&L told me that an

over-\$10K order they had with MFJ (which included my radios) was trickling in, \$100 to \$300 worth of equipment at a time...

With regard to an earlier thread on whether or not we'd be willing to pay a \$10 or so premium to get radios already crystaled up for APRS, if MFJ's performance with a \$25 premium is any indication, we do NOT want to think about the delivery schedules a \$10 premium would entail!

71. Re: [APRSSIG:2639] Re: CAP

From: n7fzy@netcom.com (Dave Whitlock)
Date: Fri, 4 Aug 1995 01:46:57 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <199508040846.BAA24811@netcom.netcom.com>
Rendered body type: text/plain

>
> What is the National Digital Radio Network????
> Dave
>

I'm not quite sure how this has leaked over into the APRSSIG, but the "National Digital Radio Network" is a Civil Air Patrol term for our rather large national network backbone.

It consists of about 25 Clover equiped BBS running AA4RE. This BBS link into the various VHF networks that the CAP has around the country. In fact, the CAP's Clover network is the largest Clover net in the world.

--

Dave Whitlock
N7FZY@N7FZY.#NOCAL.CA.USA (ham packet)
PAC044@NHQ181.CAWG.PAC.CAP.GOV (CAP packet)
n7fzy@netcom.com (Internet)

72. Atlanta GA Balloon Launch update

From: rwf <rwf@mindspring.com>
Date: Fri, 4 Aug 1995 08:16:46 -0400
To: aprssig@tapr.org
Message-ID: <199508041216.IAA28574@dylan.mindspring.com>
Rendered body type: text/plain

ATLANTA BALLOONATICS

Balloon #4 Mission Update as of Aug 4, 1995 at 12:00Z

As you probably know, last Saturday's balloon experiment was postponed due to weather. It was rescheduled to Saturday August 5th.

Lots of bad weather is still passing through this area due to Hurricane Erin. Many damaging thunderstorms occurred throughout last night.

A preliminary go/no go decision will be made this afternoon, around lunch time. I'll try to get the word out here as quickly as possible.

Bill Brown, WB8ELK, is almost a "local" now, living in Huntsville AL and has told us he will be attending this launch.

If you do not have EMAIL access at home, you can get an update from our info line at (404) 936-3737. The info on there at the moment is very stale, and I probably will not update it until after 17:00Z. today.

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info
ATV and GPS Balloon Flight coming up Aug 5th from Atlanta, GA
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

73. RE: [APRSSIG:2642] APRS on voice rpters

From: Greg Faust <GREGF@msmail.cho.ge.com>
Date: Fri, 04 Aug 95 08:27:00 EDT
To: aprssig <aprssig@tapr.org>
Message-ID: <302212B4@msmail.cho.ge.com>
Rendered body type: text/plain

Yes! I'm interested. Down here in C'Ville we help with a lot of public service events and have tried several times to use APRS during an event. It seems most hams have one radio, but find it troublesome to have another with associated antennas, cables etc, to run APRS. Using one radio on the main repeater frequency is an idea we too have been toying with. Sign us up for beta tests. We'll build our own PC boards or whatever, just fill us in on the plans.

Greg Faust
N4PGS@WA4TFZ.VA.USA.NA
greg.faust@cho.ge.com

From: aprssig
To: aprssig
Subject: [APRSSIG:2642] APRS on voice rpters
Date: Thursday, August 03, 1995 9:35PM

I am about ready to begin testing of my widget for putting your stand-alone-tracker packets onto the tail end of your voice transmissions. I need some GOOD beta testers. Here are the requirements:
1) You must have a GPS and stand-alone-tracker
2) You must be a hanko and VIP in your repeater organization. ie, you must be able to make a lot of noise on your repeater (packets) without someone turning off the repeater on you!
3) You must have frequent access to the rpeater to install a TNC and a extra packet transceiver, and extra visits for troubleshooting and tweaking
4) You must be willing and able to install my small circuit board inside your TNC and find all the appropriate attachment points.
5) You must fully understand AX.25
6) You must be willing and able to tinker with the repeater controller and packet TNC to optimize the interface between them.

If you are interested, lemme know!

74. Re: [APRSSIG:2642] APRS on voice rpters

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Fri, 4 Aug 1995 08:18:45 -0500
To: aprssig@tapr.org, jklas@omnifest.uwm.edu
Message-ID: <9508041318.AA00257@omnifest.uwm.edu>
Rendered body type: text/plain

Bob (et al.)

The idea has a lot of appeal. If I thought that I wouldn't have to have 2 transmitters and two antennas ...
Unfortunately, although my license SAYS Tech.....
I'm also a little short in the "clout" dept. HOWEVER ..

Lemme fwd this to someone with all your qualifications and see what HE says.

Dave , N9UNR

75. Re: [APRSSIG:2639] Re: CAP

From: DKAPLAN@netins.net (David Kaplan)
Date: Fri, 4 Aug 1995 09:15:26 -0500
To: aprssig@tapr.org
Message-ID: <199508041415.JAA06778@dingus.n5lyt.datarace.com>
Rendered body type: text/plain

> What is the National Digital Radio Network?????
>Dave
>
NDRN is CAP talk for anything tht has to do with digital communications such as :
Packet
Clover
APRS
etc...

76. Radios for APRS use!

From: Jerry Wyatt <jwyatt@amex-trs.com>
Date: Fri, 04 Aug 95 09:37:56 -0700
To: aprssig@tapr.org

Message-ID: <9508041637.AA45900@lineng.ipc.amex-trs.com>

Rendered body type: text/plain

Radios for APRS use!

In dealing with APRS and CAP, I found a member that is a dealer for Maxon. He told me about a 4 channel crystal HT that was re-engineered for data use and mounted in a very small stainless case with only a BNC and db-9 connectors. I ordered two for testing and they have served me very well. Especially since CAP has ONLY one packet freq nation wide. Since my testing, several others have been purchased and used as mobile units for trackers.

The unit puts out 5 watts, is about 6X3X3/4", never gets hot, and you can order it with crystal. It connects directly to the TNC/KPC3 and makes for a very small package. I don't have the specs here with me, but they come with a very nice tech manual with full schematics.

I recall the list price was about \$200.00, I managed to get the 3-4 that I have purchased for \$150. each in ones. I was told the price drops a lot if >10 are ordered!

Anyone interested? As usual...I have nothing to gain in this, just passing on my experience with these little units!

Later

jw

The opinions expressed in this message are those of the author only, and do not necessarily reflect the opinions of American Express.

77. Re: [APRSSIG:2653] Radios for APRS use!

From: Dick Mead <mead@skat.usc.edu>

Date: Fri, 4 Aug 95 10:56:06 PDT

To: aprssig@tapr.org

Message-ID: <CMM.0.90.2.807558966.mead@hamal.usc.edu>

Rendered body type: text/plain

> Radios for APRS use!

>

> In dealing with APRS and CAP, I found a member that is a dealer for Maxon. He told me about a 4 channel crystal HT that was re-engineered for data use and mounted in a very small stainless case with only a BNC and db-9 connectors.

> ...

> The unit puts out 5 watts, is about 6X3X3/4", never gets hot, and you can order

> ...

> I recall the list price was about \$200.00, I managed to get the 3-4 that I

> have purchased for \$150. each in ones. I was told the price drops a lot if >10 are ordered!

>

> Anyone interested? As usual...I have nothing to gain in this, just passing on my experience with these little units!

>

> Later

> jw

>

For \$150, I'd be willing to try one out, especially to see how it fares in a high-RF environ and to see if it can do 9600bps.

Dick WB6NGC

78. GPS HomePage?

From: Jerry Wyatt <jwyatt@amex-trs.com>

Date: Fri, 04 Aug 95 11:07:41 -0700

To: aprssig@tapr.org

Message-ID: <9508041807.AA45982@lineng.ipc.amex-trs.com>

Rendered body type: text/plain

Chris,

<also try this one.. for navstar gps home page..

<http://tycho.usno.navy.mil/gpscurr.html>

cj>

I just tried this page, and after connecting and clicking, all I got was 'no data avail for page'. I tried both 'BLOCKS' and 'GPS info'?

jw

The opinions expressed in this message are those of the author only,
and do not necessarily reflect the opinions of American Express.

79. Beta Tester

From: Jerry Wyatt <jwyatt@amex-trs.com>
Date: Fri, 04 Aug 95 11:17:45 -0700
To: aprssig@tapr.org
Message-ID: <9508041817.AA26788@lineng.ipc.amex-trs.com>
Rendered body type: text/plain

Bob,

<I need some GOOD beta testers.>

Put me on the list.

jw

The opinions expressed in this message are those of the author only,
and do not necessarily reflect the opinions of American Express.

80. Re: [APRSSIG:2653] Radios for APRS use!

From: Bob Hartman <n8mwz@alpha.wcoil.com>
Date: Fri, 4 Aug 1995 15:06:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSD.3.91.950804150201.3985B-100000@alpha.wcoil.com>
Rendered body type: text/plain

Has anyone done any testing on some of the less expensive data radios
available as far as sensitivity and selectivity and total IM rejection?

The MFJ comes to mind as well as the Maxom recently posted.
Not everybody runs these as mobiles with GPS. I am personally interested
in suitable radios for remote digi sites.

```
////////////////////  
// Bob Hartman, N8MWZ //  
// <n8mwz@amsat.org> //  
////////////////////
```

81. Re: [APRSSIG:2653] Radios for APRS use!

From: rwf <rwf@mindspring.com>
Date: Fri, 4 Aug 1995 15:30:36 -0400
To: aprssig@tapr.org
Message-ID: <199508041930.PAA15860@dylan.mindspring.com>
Rendered body type: text/plain

Those sound nice. Maxon is getting a better name these days. They
previously had sort of a low-class reputation. These sound similar to the
TEKK data radios that we use for UHF. I wish TEKK mave VHF one!

How big is the case and how much does it weigh (for balloon use).

Thanx

Ralph

>The opinions expressed in this message are those of the author only,
>and do not necessarily reflect the opinions of American Express.

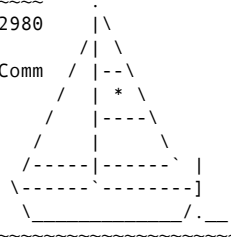
Does Maxon Dealer take American Express?? :)

82. Re: [APRSSIG:2658] Re: Radios for APRS use!

From: paul@paccomm.com
Date: Fri, 04 Aug 95 16:04:24 UTC
To: aprssig@tapr.org
Message-ID: <2810@paccomm.com>
Rendered body type: text/plain

PacComm supplies Maxon VHF telemetry style radios too :-)

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980  
Fax:+1 (813) 872-8696  
Views expressed here are not necessarily those of PacComm  
Don't surf the net, SAIL it!  
Captain of S/V "Spindrift", Dunedin, FL.  
Catalina 36: Tall rig (58'), Winged Keel (4' 2"),  
Full batten main, Boston Whaler dinghy.  
PacComm Packet Radio Systems  
4413 N. Hesperides St., Tampa, FL 33614-7618  
~~~~~



83. Re: [APRSSIG:2400] MacAPRS and JNOS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 4 Aug 95 16:51:41 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.807569501.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

I just now went back and (re?) read your message of July 20th..

Sorry I didnt get back to you sooner..

We are slowly working on a new version of PacketTracker that will do all of this and more. If you have not seen PacketTracker, download it from TAPR, it is worthwhile, but realize it is a couple years old.

The new version of PacketTracker will be out sometime in the next year and will do ALL sorts of network analysis of packet stuff.

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

84. hmmm

From: sneaker@mindspring.com (Chris Jernigan)
Date: Fri, 04 Aug 1995 17:12:26 -0400
To: aprssig@tapr.org
Message-ID: <199508042113.RAA12864@dylan.mindspring.com>
Rendered body type: text/plain

<also try this one.. for navstar gps home page..
<<http://tycho.usno.navy.mil/gpscurr.html>
<cj>

I just tried this page, and after connecting and clicking, all I got was 'no data avail for page'. I tried both 'BLOCKS' and 'GPS info'?

jw

tried it again.. and it came thru ok.. im using netscape 1.1.. dont know if that makes a diff..
try it without the gpscurr.html at the end.. it is the naval observatory and lists the exact time.

85. Re: [APRSSIG:2659] Re: Radios for APRS use!

From: quarry@q.continuum.net (Chip Griffin)
Date: Fri, 4 Aug 1995 19:21:02 -0400
To: aprssig@tapr.org
Message-ID: <v01520d01ac485b38202e@[199.0.52.80]>
Rendered body type: text/plain

>PacComm supplies Maxon VHF telemetry style radios too :-)

Tell us more ... (by email if more appropriate) ...

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

quarry@q.continuum.net | N1MIE@n1okk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)

emmet2@aol.com |
http://q.continuum.net/~quarry/

86. Re: [APRSSIG:2662] Re: Radios for APRS use!

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Fri, 4 Aug 1995 17:14:15 -0700
To: aprssig@tapr.org
Message-ID: <v01510100ac486837a460@[128.149.100.84]>
Rendered body type: text/plain

>>PacComm supplies Maxon VHF telemetry style radios too :-)
>
>Tell us more ... (by email if more appropriate) ...

No, by posting please.

-Greg

--
Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
Pasadena, CA 91109 |

87. Re: [APRSSIG:2653] Radios for APRS use!

From: mmunster@qualcomm.com (Marvin Munster x5388)
Date: Fri, 4 Aug 1995 19:03:10 -0700
To: aprssig@tapr.org
Message-ID: <v02110133ac4881a9b967@[129.46.12.181]>
Rendered body type: text/plain

Can you pass me the name of the dealer. Also, have you tried them on 9600?
Thanks.

Marvin.

>Radios for APRS use!
>
>In dealing with APRS and CAP, I found a member that is a dealer for Maxon. He
>told me about a 4 channel crystal HT that was re-engineered for data use and
>mounted in a very small stainless case with only a BNC and db-9 connectors. I
>ordered two for testing and they have served me very well. Especially since
>CAP has ONLY one packet freq nation wide. Since my testing, several others
>have been purchased and used as mobile units for trackers.
>
>The unit puts out 5 watts, is about 6X3X3/4", never gets hot, and you can order
>it with crystal. It connects directly to the TNC/KPC3 and makes for a very
>small package. I don't have the specs here with me, but they come with a very
>nice tech manual with full schematics.
>
>I recall the list price was about \$200.00, I managed to get the 3-4 that I
>have purchased for \$150. each in ones. I was told the price drops a lot if >10
>are ordered!
>
>Anyone interested? As usual...I have nothing to gain in this, just passing on
>my experience with these little units!
>
>Later
>jw
>
>
>
>The opinions expressed in this message are those of the author only,
>and do not necessarily reflect the opinions of American Express.

```
      \  /
     . /  \ .
      | \  / |
      | (o) (o) |
-----o00o-----o00o-----
| Marvin J. Munster - WB6PKK |
| WB6PKK @ KJ6VC.#SOCA.CA.US.NOAM |
| mmunster@qualcomm.com |
|_____Oooo._____|
      .ooo0      ( )
      ( )      ) /
```

\ (_/
 \)

88. [APRSSIG:2632] APRS ANSWER

From: jeff.brenton@espi.com
Date: Fri, 04 Aug 95 20:47:01 -0500
To: aprssig@tapr.org
Message-ID: <9508042047.0T73U1F@espi.com>
Rendered body type: text/plain

>>Here is the current list of ANSWER MEN for frequently asked questions.

[stuff omitted]
Jeff.Brenton@espi.com MFJ 1200/9600 baud radios

Oh, sure! I get a couple of radios, and suddenly I'm an expert! [grin]

I'll do what I can, but I'm just digging into the MFJs myself. Found today that you DO have to re-tune them for any crystal change - the crystals they supplied for 145.790 are far enough off that you can hear it in the signal audio, but not QUITE far enough off that a radio *close in* with a wide AFC can't pull them in MOST of the time... Need to get my counter out of storage, and tune it up.

NONE of the Hamtronics stuff I've built came up this far off frequency! With them, it's tweeking to get them within 100 Hz, rather than within 10 KILOHERTZ... Is it the quality of the crystals, or the stability of the transmitter? Only time will tell...

89. SIG member location file?

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Fri, 04 Aug 1995 22:14:53 -0600
To: aprssig@tapr.org
Message-ID: <9508042214.AA53607@oscar.cayman.adclab.bls.com>
Rendered body type: text/plain

What happened to the list that was being gathered of SIG member locations. Is this posted in TAPR? What is the name? Are people putting DIGI info in this list too? This would be convenient for those who are planning a trip and can know what digis to expect along the way.

Bruce

90. A "GO" for Atlanta GA Balloon Launch 8/4/95

From: rwf <rwf@mindspring.com>
Date: Fri, 4 Aug 1995 23:33:49 -0400
To: aprssig@tapr.org
Message-ID: <199508050333.XAA07617@dylan.mindspring.com>
Rendered body type: text/plain

Yes!! It looks like a GO

Atlanta Balloon Update as of 3 August 1995:

All equipment for all packages on hand.
Payloads modules tested. Final integration complete.
Launching from Crossroads, GA. (NW of Dallas)

ATLANTA BALLOONATICS

Balloon #4 Mission Status

DATE/TIME

: Saturday August 4th or Sunday August 5th
: Release 0930EDT (1330Z) 0930EDT (1330Z)
: Weather conditions will control exact time of release

RELEASE SITE:

: Crossroads Elementary School, North of Dallas, GA
 WB8ELK (Bill Brown) will be in attendance
: Coordinates 3400.48N 08446.12W

: Payload weight : 2.27kg (5-pounds)
: Balloon : TOTEX TA-1200
: Helium : 180 cu ft.
: Ascent rate : 750 fpm
: Max altitude : 110,000ft
: Max radio range: 640km (400sm)

FREQUENCIES AND MODES

: Packet Radio Downlink 441.0 MHz 2W
: Retransmitted from ground into APRS net on
145.79 MHz and on 10.151 MHz LSB
: Standard AX.25 1200BPS AFSK FM
: Sending APRS-compatible NMEA-183 GPS navigation data
: No Open digipeating. No receiver. Don't try.

: Altitude & Temperature telemetry on:
146.575 MHz , 28.322 MHz , & 438.5 MHz (wide band TV
audio)

: B&W ATV camera with 1 watt AM transmitter on 434.0 MHz

: All antennas vertically polarized

EXPERIMENTS : More experiments in BASIC stamp control of balloon payloads.
Basic Stamp controlled servo/mirror for
multiple camera views.
1 12 bit altimeter and 2 8 bit temperature
sensors (inside and outside)
data will be sent as CW on the 10 and 2
meter frequencies

For more details about this project, as well as telemetry decoding charts-
see the WWW address listed below

Ralph Fowler, N4NEQ S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info
ATV and GPS Balloon Flight coming up August 4th from Atlanta, GA
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

91. Sorry wrong date (balloon)

From: rwf <rwf@mindspring.com>
Date: Fri, 4 Aug 1995 23:58:55 -0400
To: aprsig@tapr.org
Message-ID: <199508050358.XAA13062@dylan.mindspring.com>
Rendered body type: text/plain

It is really Sat Aug 5th with a rain date of Sunday Aug 6th

Sorry

Ralph Fowler, N4NEQ S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info
ATV and GPS Balloon Flight coming up August 4th from Atlanta, GA
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

92. Meteor Scatter

From: wnolle@ro.com (William Nolle)
Date: Sat, 05 Aug 1995 13:50:46
To: aprssig@tapr.org
Message-ID: <199508051356.IAA03226@sh1.ro.com>
Rendered body type: text/plain

I want to participate in the Meteor Scatter Test coming up. I have a stacked pair of 13 element CushCraft 13B2's + a 300w Mirage at 48 feet. Now the question is when starting that function in APRS 72b it asks to enter the transmit power?. Now do i enter the power at the shack or do i figure the 300+w and multiply by DB gain. I don't know how important this is?. Also is there anything else i need to know. I have seen instruction posted here by several sources hi. Would be great if someone would post the final rules. I also understand that my best beam direction would probably be toward Bob's location 057 degrees, specially on the 12th of Aug. Any input would be appreciated. Now back to APRS and the possible balloon launch in Atlanta.

Bill KE4EER
wnolle@ro.com

93. re:SIG Member Location File

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 5 Aug 95 10:17:12 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.807632232.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

>
> What happened to the list that was being gathered of SIG member locations. Is
> this posted in TAPR? What is the name? Are people putting DIGI info in this
> list too? This would be convenient for those who are planning a trip and can
> know what digis to expect along the way.
>

I have the list of stations and will probably work on putting into a useable form while at MacWorld.

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

94. GMDAY3 new version

From: ALLER@mail.syntron.com
Date: Sat, 05 Aug 95 10:02:04 CST
To: aprssig@tapr.org
Message-ID: <9507058076.AA807642124@MAIL.SYNTRON.COM>
Rendered body type: text/plain

I've fixed the problem with GM that prevented it from running on machines lower than 80186. Also, there is a new switch to allow ignoring the NMEA checksum for those receivers that don't provide it. The version 2.7 is in GMDAY3.ZIP.

I'll be glad to send it out if someone will offer the use of an appropriate ftp site where others can come and get it.

Regards, Richard w5sxd@amsat.org (aller@syntron.com)

95. Re: [APRSSIG:2642] APRS on voice rpters

From: "Samuel T. Nabkey" <wj8t@w8dc.ampr.org>
Date: Mon, 07 Aug 95 19:41:31 UTC
To: aprssig@tapr.org
Message-ID: <32244@w8dc.ampr.org>
Rendered body type: text/plain

Hi Bob,

I am MORE than willing to help you test the APRS on Voice repeaters. I have a WIDE Digi in the SAME cabinet my Repeater is in.

I own the Repeater, so I guess I can make ALL the noise I wanna..

What next?

Sam Nabkey - WJ8T

57 Wallasey SW
Grand Rapids, Mi 49548

[illegible]

96. CIBA results

From: lmkeeran@ilstu.edu (Larry Keeran)
Date: Sat, 05 Aug 1995 12:35:54 -0500
To: aprssig@tapr.org
Message-ID: <199508051747.MAA09092@ns1.dave-world.net>
Rendered body type: text/plain

Central Illinois Balloon Association launched a balloon at 9am local time today 8-5, it landed at 40 47 N 088 54 W at 12:15pm.
Close to Gridley Illinois. The GPS failed giving altitude initially and lat/long data stopped 30 minutes into flight.
The crossband repeater was subject to simplex activity on the input frequency and may have caused desense (they think) with the GPS.

Stations N9FAM, WA9RGQ, WX9U, N9RLR, N9WST, KA9NHL, K9CYW and K9ORP participated. A full report will follow when I get it.

73 K9ORP lmkeeran@ilstu.edu

97. Help with APRS72B software

From: mtanner@telerama.lm.com (Mike Tanner)
Date: Sat, 05 Aug 1995 14:38:59 -0400
To: aprssig@tapr.org
Message-ID: <199508051842.0AA23672@ivory.lm.com>
Rendered body type: text/plain

Is there anyone in the Pittsburgh PA area who can help me set up the APRS72B software by phone? All I really want to do is set it up for the meteor shower test. I'm not into the GPS stuff 'cause I don't drive. I'll even accept a collect phone call to get it set up. I've got 3 friends in this area who also want to be active in the test. One on 2 mtrs and and another guy and me on 6 mtrs.

Thanks in advance
Mike
wb5nlj@amsat.org
mtanner@telerama.lm.com

98. Re: [APRSSIG:2673] CIBA results

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Sat, 5 Aug 1995 13:41:55 -0500
To: aprssig@tapr.org
Message-ID: <199508051841.NAA01833@uxa.ecn.bgu.edu>
Rendered body type: text/plain

>Central Illinois Balloon Association launched a balloon at 9am local time
>today 8-5, it landed at 40 47 N 088 54 W at 12:15pm.
>Close to Gridley Illinois. The GPS failed giving altitude initially and
>lat/long data stopped 30 minutes into flight.
>The crossband repeater was subject to simplex activity on the input
>frequency and may have caused desense (they think) with the GPS.
>
>Stations N9FAM, WA9RGQ, WX9U, N9RLR, N9WST, KA9NHL, K9CYW and K9ORP
>participated. A full report will follow when I get it.
>
>73 K9ORP 1mkeeran@ilstu.edu
>

Good show despite some set backs! Enjoyed seeing just how many aprs stations
there are on vhf. Will be looking forward to seeing another launch.
73, Jay...

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

99. (no subject)

From: mtanner@telerama.lm.com (Mike Tanner)
Date: Sat, 05 Aug 1995 19:09:28 -0400
To: aprssig@tapr.org
Message-ID: <199508052312.TAA05624@ivory.lm.com>
Rendered body type: text/plain

Many thanks to Bruce KB4LWN who called me from California within 2 hours of my posting the request for help! With his help we got the software going and now several of us in the Pittsburgh area will be operating the meteor scatter test on both 2 and 6 meters.

Bruce's enthusiasm for helping others is a VERY good example of what ham radio is all about.

Thanks again Bruce.

73's Mike WB5NLJ/3

100. Newbie can't get his APRS to work!

From: Bob Hartman <n8mwz@alpha.wcoil.com>
Date: Sat, 5 Aug 1995 17:20:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSD.3.91.950805170815.999B-100000@alpha.wcoil.com>
Rendered body type: text/plain

Excuse this message if it too elementary, but it is darn frustrating to me that I can't get APRS to run on my system. I keep getting an "I/O glitch" and "TNC not responding" messages in the top RH corner and gibberish on the bottom line of the screen. If I hit "O,C, & T" to test it as explained in the "trouble.txt" file, I either get "I/O glitch" (which usually locks the computer up) or gibberish instead of the CMD prompt. If I power the TNC down and back up in this screen, I get a couple of line of gibberish (looks like Greek). Let me first say that this particular TNC and computer work fine together for normal packet using Telix as a terminal program. I have a new Kantronics KPC-3. (ver 6.0 with the GPS firmware) I am using a commercial premade (all 25 pin) serial cable between the computer and the TNC. The TNC is on COM 4 and I have switched it with the serial cable for COM 2 which is a modem with the same result. I edited the INITTAPR.TNC file to change PAR to 4 after the intial setting didn't work either. I also temporarily removed the third line down in INITTAPR.TNC (W?len 8) on the advice of another person who had to do that to get his KPC-4 to work properly. So far, nothing make any difference. The computer is a DX4-100 with normal bus speeds.

Any suggestions???

```
////////////////////  
// Bob Hartman, N8MWZ //  
// <n8mwz@amsat.org> //  
////////////////////
```

101. The launch is now history

From: rwf <rwf@mindspring.com>
Date: Sat, 5 Aug 1995 23:52:11 -0400
To: aprssig@tapr.org
Message-ID: <199508060352.XAA01276@dylan.mindspring.com>
Rendered body type: text/plain

After a 1 hour weather hold,our balloon was launched from Crossroads Elementary School near Dallas, GA. Bill Brown (WB8ELK) and his girlfriend were there to lend a hand.

We even had an unplanned experiment: "Ants in Space" (with apologies to Gerry Creager's cows). Someone had set the GPS payload down on an anthill, and we were going to have the first amateur "Antronauts". :(

At liftoff, something caused the bottom payload (the GPS/TNC/TEKK Radio) to separate from the flight train. This caused the balloon to ascend with only the ATV payload, Radar reflector, parachute, and 10 and 2 meter beacons.

Those payloads worked flawlessly, and the fox hunters DF'ed the balloon with the aid of APRS and manual beam headings, handi finders and Doppler units. A local fellow has a Company (Directional Systems) that makes a NICE Doppler unit.

After a two hour flight, the package landed on a farm, in a 100 ft high Sweet Gum tree. The farmer tried to shoot down the package for us with a rifle, but couldn't get all the strings. His son finally felled the tree and

we cut it up into logs and stacked it for him. The payloads, including the video with servo controlled moving mirror all worked while the balloon was in the tree and during the tree felling.

By the way, the first person to the balloon was WB8ELK. I know telemetry was received in Huntsville by KE4EER. Any one else receive our beacons?

We'll post some images on the web site soon. And I will post the HST file of the DFing activities as well.

We have 1 balloon and 1 tank of helium left, so we'll fly it again soon (ALL of it, I hope)

For more details about this project, as well as telemetry decoding charts- see the WWW address listed below

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info

APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

102. Re: [APRSSIG:2677] Newbie can't get his APRS to work!

From: sneaker@mindspring.com (Chris Jernigan)

Date: Sun, 06 Aug 1995 02:17:54 -0400

To: aprssig@tapr.org

Message-ID: <199508060618.CAA21634@dylan.mindspring.com>

Rendered body type: text/plain

>
>it as explained in the "trouble.txt" file, I either get "I/O glitch"
>(which usually locks the computer up) or gibberish instead of the CMD

>
>/////////////////////////////////
>// Bob Hartman, N8MWZ //
>// <n8mwz@amsat.org> //
>/////////////////////////////////
--

Bob.. a friend had this problem.. and it was his Parity not being correct for APRS...

i think he was 7/E/1 and this program wanted 8/N/1...or vice-versa..

and when i have an I/o glitch here.. its because i look back at my Com2 and see my mouse plugged in..

o well

cj

103. WX Server and APRS

From: KG5QD@aol.com

Date: Sun, 6 Aug 1995 08:33:11 -0400

To: aprssig@tapr.org

Message-ID: <950806083310_131602637@aol.com>

Rendered body type: text/plain

Hello Dale here qth Naples FL- I am writting a program to run on an old 286 located

at the local Emergeny Operations Center which parses the incoming hurricane and

other tropical storm info off of the weather wire and sends it to the co-located packet

bbs. I am adding the ability to call the local voice repeaters and program the info into the

digital voice "talkers". In the process of doing all this I have the info necessary to output

APRS automatic info and have been able to get most of the graphics to work properly-

I have some problem with deciding what kind of decay to put in the output- the tropical

cyclone info is good for between 1 and 6 hours- depending on how close the storm is to

landfall. there is not enough APRS activity here at present to even guess at the qrm level that could be tolerated. Any Ideas?

104. Re: [APRSSIG:2677] Newbie can't get his APRS to work!

From: ETHOLMEN@aol.com
Date: Sun, 6 Aug 1995 10:17:30 -0400
To: aprssig@tapr.org
Message-ID: <950806101730_49055476@aol.com>
Rendered body type: text/plain

Hi Bob;

Soundslike a baud rate or parity problem with your RS232 link between your computer and TNC. Check to see that APRS and the TNC are set the same.

73's Gene

105. Re: [APRSSIG:2679] Re: Newbie can't get his APRS to work!

From: Bob Hartman <n8mwz@alpha.wcoil.com>
Date: Sun, 6 Aug 1995 13:40:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSD.3.91.950806133603.3467A-100000@alpha.wcoil.com>
Rendered body type: text/plain

I want to thank everyone who send me suggestions as to why I couldn't get APRS to run on a Kantronics KPC-3. In the cold light of day, and with everyone's suggestions, I was able to determine that I had to change *TWO* settings at once to get it to work. All of my testing previously was to change change one thing at a time and check it, etc. On the KPC-3, it requires the statement "PAR" to read "PAR NONE" as the KPC-3 does not use "0", "1", "2", "3", or "4". Once I changed the Parity to none and matched the baud rate of the APRS program to the ABAUD setting of the TNC, everything worked fine. Thanks again to all that responded!

On the map in Lima, Ohio

```
////////////////////  
// Bob Hartman, N8MWZ //  
// <n8mwz@amsat.org> //  
////////////////////
```

106. Re: Newbie can't get his APRS to work!

From: Jess Girard <girard@panix.com>
Date: Sun, 6 Aug 1995 13:37:12 -0400 (EDT)
To: Bob Hartman <n8mwz@alpha.wcoil.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950806133428.3368A-100000@panix.com>
Rendered body type: text/plain

Hi Bob:

I cannot typcially get my tnc (AEA PK-232) and any revision of APRS to run from scratch. Almost every time I have to run Procomm+ or similar comm program first, get ths tnc to give its normal "cmd:" prompt, then switch to APRS.

I suppose I'm doing something wrong. What else is new? Maybe some kind soul will enlighten me/us as appropriate.

73
Jess Girard ND1L

107. Re: [APRSSIG:2680] WX Server and APRS

From: JeffS5@aol.com
Date: Sun, 6 Aug 1995 17:41:09 -0400
To: aprssig@tapr.org
Message-ID: <950806174108_49266378@aol.com>
Rendered body type: text/plain

Dale,

Considering what you're doing and the potential it has, I offer this famous snip.

(once they figure out what you have) "Build it, and they will come"

jeff-wa6equ

108. 6M APRS METSCAT Test, Part-III

From: Ralph Wallio <WALLIO@dsml.dsmnet.com>
Date: Mon, 7 Aug 1995 7:13:13 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950807071313.3568@dsml.dsmnet.com>
Rendered body type: text/plain

1995 Perseids 6M APRS Packet Radio METSCAT Test
Ralph Wallio, W0RPK and Carl Richey, KB0QQQ

Test Information Part-III

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions of 100-packets will occur during the first half of each minute using standard 1200BPS AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).

The W0RPK station configuration will include 160W into a 5-element horizontal home-brew Yagi and separate transmit and receive TNCs and microcontrollers. The receive side is fairly conventional while the transmit side, based on an ancient Radio Shack TRS-80 Model-100 lap-top, is specific to this test. When in beaconing mode, the transmit controller will generate date and time stamped serial-numbered beacons using a very simple BASIC language program:

```
10 ' Packet Radio Meteor Scatter Beacon Transmit Controller
20 ' Written for the Radio Shack TRS-80 Model-100
30 ' Ralph Wallio, W0RPK wallio@dsml.dsmnet.com
40 '
100 ' Open RS-232 serial port for settings
    ' 1200bps, 7-bits, even parity, one stop bit, enable x-flow
110 OPEN "COM:57E1E" FOR OUTPUT AS 1
120 '
200 ' Set beacon serial number counter
210 J = 1
230 '
300 ' Loop looking for top of each minute
310 IF RIGHT$(TIME$,2)="00" THEN GOTO 410 ELSE GOTO 310
320 '
400 ' Transmit loop
410 Beep
420 FOR I = 1 TO 110
430 PRINT #1,MID$(DATE$,4,2);" ";LEFT$(TIME$,5);J
440 J = J+1
450 NEXT I
460 '
500 ' Log transmission to printer
510 LPRINT DAY$;" ";DATE$;" ";TIME$;" ";J-1
520 '
530 ' Return to timing loop
540 GOTO 310
```

A terminal program will be used to put EN31FK in the TNC UNProto field. This BEACON program will run continuously until a 2-way QSO attempt is scheduled. After the attempt, J will be set to the next serial number in line-210 and the program restarted.

A similar QSO program will be used during 2-way attempts:

```
10 ' Packet Radio Meteor Scatter QSO Transmit Controller
20 ' Written for the Radio Shack TRS-80 Model-100
30 ' Ralph Wallio, W0RPK wallio@dsml.dsmnet.com
40 '
100 ' Open RS-232 serial port for settings
    ' 1200bps, 7-bits, even parity, one stop bit, enable x-flow
110 OPEN "COM:57E1E" FOR OUTPUT AS 1
120 '
200 ' Input text to be transmitted and station call
210 INPUT "Text";T$
220 INPUT "Call";C$
230 '
300 ' Loop looking for top of each minute
310 IF RIGHT$(TIME$,2)="00" THEN GOTO 410 ELSE GOTO 310
320 '
400 ' Transmit loop
410 Beep
420 FOR I = 1 TO 110
```

```

430 PRINT #1,T$
440 NEXT I
450 '
500 ' Log transmission to printer
510 LPRINT DAY$;" ";DATE$;" ";TIME$;" ";C$;" ";T$
520 '
530 ' Return to timing loop
540 GOTO 310

```

The user interface of this alleged 'program' is very crude but I will only be using it for a few days and a few attempts. The following operational steps will be used:

- 1) Model-100 TIME\$ is set to WWV.
- 2) A terminal program will be used to load the distant station call into the TNC UNProto field.
- 3) The program will be stopped and restarted every time required TEXT data changes.

I am open for QSO or beacon skeds in the announced test interval.

Ralph Wallio, W0RPK	515-961-0383
Middle River Valley Radio Observatory	W0RPK @ W0AK.IA
1250 Highway G24	wallio@dsmanet.com
Indianola, Iowa 50125	Monitoring 3.818MHz and
	7.258MHz during the test

109. Re: [APRSSIG:2685] 6M APRS METSCAT Test, Part-III

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
 Date: Mon, 7 Aug 1995 09:09:25 +0000
 To: aprssig@tapr.org
 Message-ID: <9508071305.AA08448@oriole.ustc.vlsi.COM>
 Rendered body type: text/plain

Do you want stations running APRS on this freq. This sounds like you are looking for confirmed(at the time of contact) contacts. I thought the APRS Mscat mode was set up to provide min packet length and all vis UI frames.

```

>1995 Perseids 6M APRS Packet Radio METSCAT Test
>Ralph Wallio, W0RPK and Carl Richey, KB0Q0Q
>
>Test Information Part-III
>
>W0RPK will transmit APRS compatible packet radio beacons on
>50.620MHz during the 1995 Perseids meteor shower. Automatic
>transmissions of 100-packets will occur during the first half of
>each minute using standard 1200BPS AFSK on FM modulation. During
>the second half of each minute W0RPK will monitor for packets
>from other stations. The test will start at 0001UTC 11Aug and
>end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).
>
>The W0RPK station configuration will include 160W into a
>5-element horizontal home-brew Yagi and separate transmit and
>receive TNCs and microcontrollers. The receive side is fairly
>conventional while the transmit side, based on an ancient Radio
>Shack TRS-80 Model-100 lap-top, is specific to this test. When
>in beaconing mode, the transmit controller will generate date
>and time stamped serial-numbered beacons using a very simple
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>
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>210 J = 1
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>300 ' Loop looking for top of each minute
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>320 '
>400 ' Transmit loop
>410 Beep
>420 FOR I = 1 TO 110

```

```

>430 PRINT #1,MID$(DATE$,4,2);" ";LEFT$(TIME$,5);J
>440 J = J+1
>450 NEXT I
>460 '
>500 ' Log transmission to printer
>510 LPRINT DAY$;" ";DATE$;" ";TIME$;" ";J-1
>520 '
>530 ' Return to timing loop
>540 GOTO 310
>
>A terminal program will be used to put EN31FK in the TNC UNProto
>field. This BEACON program will run continuously until a 2-way
>QSO attempt is scheduled. After the attempt, J will be set to
>the next serial number in line-210 and the program restarted.
>
>A similar QSO program will be used during 2-way attempts:
>
>10 ' Packet Radio Meteor Scatter QSO Transmit Controller
>20 ' Written for the Radio Shack TRS-80 Model-100
>30 ' Ralph Wallio, W0RPK wallio@dsmnet.com
>40 '
>100 ' Open RS-232 serial port for settings
> ' 1200bps, 7-bits, even parity, one stop bit, enable x-flow
>110 OPEN "COM:57E1E" FOR OUTPUT AS 1
>120 '
>200 ' Input text to be transmitted and station call
>210 INPUT "Text";T$
>220 INPUT "Call";C$
>230 '
>300 ' Loop looking for top of each minute
>310 IF RIGHT$(TIME$,2)="00" THEN GOTO 410 ELSE GOTO 310
>320 '
>400 ' Transmit loop
>410 Beep
>420 FOR I = 1 TO 110
>430 PRINT #1,T$
>440 NEXT I
>450 '
>500 ' Log transmission to printer
>510 LPRINT DAY$;" ";DATE$;" ";TIME$;" ";C$;" ";T$
>520 '
>530 ' Return to timing loop
>540 GOTO 310
>
>The user interface of this alleged 'program' is very crude but I
>will only be using it for a few days and a few attempts. The
>following operational steps will be used:
>
>1) Model-100 TIME$ is set to WWV.
>
>2) A terminal program will be used to load the distant station
> call into the TNC UNProto field.
>
>3) The program will be stopped and restarted every time required
> TEXT data changes.
>
>I am open for QSO or beacon skeds in the announced test interval.
>
>Ralph Wallio, W0RPK 515-961-0383
>Middle River Valley Radio Observatory W0RPK @ W0AK.IA
>1250 Highway G24 wallio@dsmnet.com
>Indianola, Iowa 50125 Monitoring 3.818MHz and
> 7.258MHz during the test

Bob Baltz *
Chesapeake Region Sales *
Ph:(410) 987- 8777 *
Fax: (410) 987-4489 *
E-mail bob.baltz@ustc.vlsi.com *
```

110. CAP NDRN News

```

From: Jerry Wyatt <jwyatt@amex-trs.com>
Date: Mon, 07 Aug 95 09:39:42 -0700
To: aprssig@tapr.org
Message-ID: <9508071639.AA28315@lineng.ipc.amex-trs.com>
Rendered body type: text/plain
```

CAP National Data Radio Network News - 31 July 95

* * *

APRS News

Let me clarify an issue that has caused some confusion. As reported in last month's newsletter, Arizona Wing has completed their testing of APRS and has written a report on the results. In addition, they have written a 48 page technical manual on APRS and how to build a stand-alone APRS beacon using the Motorola GPS units.

However, these documents are not yet available. The report was written for the NCC. So even though the NCC no longer exists, it will be released at the National Board this month.

After the Board, request copies of these documents from your Director of Communications.

Pennsylvania Wing now has a small cadre of APRS Users running tests. Since PAWG nodes support Unproto packets, they are able to digipeat APRS packets.

* * *

NCC = National Communications Committee

Board = National Board, last of Aug, this year at Wash DC

Later

jw

The opinions expressed in this message are those of the author only, and do not necessarily reflect the opinions of American Express.

111. RE: [APRSSIG:2686] Re: 6M APRS METSCAT Test, Part-III

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>

Date: Mon, 7 Aug 1995 13:42:36 -0500 (CDT)

To: aprssig@tapr.org

Message-ID: <950807134236.3850@dsm1.dsmnet.com>

Rendered body type: text/plain

There will be very few participants on 6M and the METSCAT foot print effect will further limit QRM. For the moment, I plan on using 50.62MHz for both APRS beacons and QSO attempts. Ralph

112. Ref {{APRSSIG:2687}} CAP NDRN News

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>

Date: Mon, 7 Aug 1995 15:01:28 -0500 (CDT)

To: aprssig@tapr.org

Cc: CHEAD@exame2.dseg.ti.com

Message-ID: <950807150128.20400e57@exame2.dseg.ti.com>

Rendered body type: text/plain

>CAP National Data Radio Network News - 31 July 95

>

>* * *

>

APRS News

> Let me clarify an issue that has caused some confusion. As
>reported in last month's newsletter, Arizona Wing has completed
>their testing of APRS and has written a report on the results. In
>addition, they have written a 48 page technical manual on APRS and
>how to build a stand-alone APRS beacon using the Motorola GPS
>units.

..

..

..

>NCC = National Communications Committee

>Board = National Board, last of Aug, this year at Wash DC

I'm not a member of CAP, but would be very interested in obtaining copies of the documents mentioned above.

How would I go about doing this?

How much would it cost?

73 Claude Head

K5DTN

chead@exame2.dseg.ti.com

113. Re: [APRSSIG:2687] CAP NDRN News

From: Dick Mead <mead@skat.usc.edu>
Date: Mon, 7 Aug 95 13:04:32 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.807825872.mead@hamal.usc.edu>
Rendered body type: text/plain

> CAP National Data Radio Network News - 31 July 95
>
> * * *
>
> APRS News
>
> Let me clarify an issue that has caused some confusion. As
> reported in last month's newsletter, Arizona Wing has completed
> their testing of APRS and has written a report on the results. In
> addition, they have written a 48 page technical manual on APRS and
> how to build a stand-alone APRS beacon using the Motorola GPS
> units.
> However, these document are not yet available. The report was

It might be interesting if this could be made available at tapr's ftp
site as well, especially for those of us not associated with CAP.
Just my opinion, however.

Dick WB6NGC

114. Re: [APRSSIG:2236] Posits Request..

From: quarry@q.continuum.net (Chip Griffin)
Date: Mon, 7 Aug 1995 17:46:48 -0400
To: aprssig@tapr.org
Message-ID: <v01520d02ac4c36b6e73a@[199.0.52.51]>
Rendered body type: text/plain

>For those of you that have APRS or MacAPRS up and running, I would like your
>posit as it is send from your computer over the air.. If you do NOT have
>this, then just send me your call sign and lat-lon in a simplistic form

>The APRS format is:

>callsign>APRS:!ddmm.ssN/dddmm.sswx

N1MIE>APRS:!4131.95N/07202.81WM

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@nlokk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

http://q.continuum.net/~quarry/

115. Re: [APRSSIG:2690] Re: CAP NDRN News

From: n7fzy@netcom.com (Dave Whitlock)
Date: Mon, 7 Aug 1995 15:36:35 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <199508072236.PAA29325@netcom.netcom.com>
Rendered body type: text/plain

>
> > CAP National Data Radio Network News - 31 July 95
> >
> > * * *
> >
> > APRS News
> >
> > Let me clarify an issue that has caused some confusion. As
> > reported in last month's newsletter, Arizona Wing has completed
> > their testing of APRS and has written a report on the results. In
> > addition, they have written a 48 page technical manual on APRS and
> > how to build a stand-alone APRS beacon using the Motorola GPS
> > units.
> > However, these document are not yet available. The report was
>
>
> It might be interesting if this could be made available at tapr's ftp
> site as well, especially for those of us not associated with CAP.
> Just my opinion, however.

>
> Dick WB6NGC
>
>
>
>
>
>

I will relay this request to the Arizona Wing Director of Communications.

--

Dave Whitlock
N7FZY@N7FZY.#NOCAL.CA.USA (ham packet)
PAC044@NHQ181.CAWG.PAC.CAP.GOV (CAP packet)
n7fzy@netcom.com (Internet)

116. Re: [APRSSIG:2666] SIG member location file?

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 7 Aug 1995 19:02:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950807185956.14838C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Fri, 4 Aug 1995, Bruce W. Martin wrote:

>
> What happened to the list that was being gathered of SIG member locations. Is
> this posted in TAPR? What is the name? Are people putting DIGI info in this
> list too? This would be convenient for those who are planning a trip and can
> know what digis to expect along the way.

APR REPLY: No, this list (being assembled by Keith) will NOT have digis in it. But I am trying to maintain a list of ALL KNOWN PERMANENT WIDE area digis in the file DIGIS.BK that is in all aprs distro copies. You can not only load this file as a backup file, but you can also REPLAY it so that you can temporarily see the digis, without losing your current data.

117. Re: [APRSSIG:2683] Re: Newbie can't get his APRS to work!

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 7 Aug 1995 19:07:26 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9508071918.A3837-0100000@bcfreenet>
Rendered body type: text/plain

Jess,

I've had a similar problem with a PK232. The PK232 doesn't seem to want to autobaud properly with APRS. I solved the problem by putting the batteries into the TNC, booting from a viable packet program, and then subsequent connections via APRS are no longer a cold boot. It now comes up ok every time.

Btw, don't forget to include the word PACKET in the INITAEA reference file so it doesn't come up in MORSE.

William Manley KB4XE
z002594b@bcfreenet.seflin.lib.fl.us

On Sun, 6 Aug 1995, Jess Girard wrote:

> Hi Bob:
>
> I cannot typically get my tnc (AEA PK-232) and any revision of APRS to
> run from scratch. Almost every time I have to run Procomm+ or similar
> comm program first, get the tnc to give its normal "cmd:" prompt, then
> switch to APRS.
>
> I suppose I'm doing something wrong. What else is new? Maybe some kind
> soul will enlighten me/us as appropriate.
>
> 73
> Jess Girard ND1L
>
>

118. For the wish list

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 7 Aug 1995 19:16:33 -0400 (EDT)
To: aprssig <aprssig@tapr.org>
Message-ID: <Pine.3.89.9508071921.C3837-0100000@bcfreenet>
Rendered body type: text/plain

Bob,

For the wish list I suggest that in some future version you add an autodetect mouse configuration capability. I note that 7.2b honors the Microsoft Mouse. However mine is a Logitech Bus Mouse and APRS doesn't even know that it is there.

Priority is "not important ... nice to have".

William Manley KB4XE
z002594b@bcfreenet.seflin.lib.fl.us

119. Re: [APRSSIG:2686] Re: 6M APRS METSCAT Test, Part-III

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 7 Aug 1995 19:55:20 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950807195132.14838K@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

To respond to Bob Baltz question about packet format on SIX METERS for the meteor shower.

On six meters, success should be routine. Therefore, If you are NOT at your station, then let it run automatic with the APRS MScat mode. If you are in attendance, and see a contact, then GO FOR A TWO-WAY.. Ralph has pretty well described how...

I will try to revise Ralphs program into an EXE program... if I have the time....

More later, after I digest 3 days of mail here....

120. 6 m MScatt plan REVISED?

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 7 Aug 1995 20:45:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950807203037.15110A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I believe that the complete TWO-WAY protocol proposed by W0RPK can easily be added to a new version of APRS FOR 6 METERS ONLY. I will work on that immediately. BUT in the mean-time, I am hoping that Ralph will ADD 3 characters to his packets. This is beacuse ALL versions of APRS must have at least 3 characters before the packets will be considered in ANY MODE. For this reason, I am adding the 3 characters (CQ!) to his calling packets, and suggesting that all Snn packet counts be padded with a leading 0 to guarantee at least 3 characters at all times. If he disagrees, he will tell us! hi hi (its after midnight so I dont want to call him) Here is a REPEAT of his proposal MODIFIED to assure a 3 character minimum:

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz using standard 1200 baud AX.25 FM. Automatic transmissions will occur during the first half of each minute. During the second half of each minute W0RPK will monitor for packets from other stations. The test will run from 0001UTC 11Aug to 2359UTC 14 Aug.

Beam headings will be controlled by 2-way QSO attempts, by requests for specific beacon paths and to take advantage of predicted path peaks.

A complete METSCAT QSO requires both stations to receive and display a minimum of one packet containing both calls, one packet containing a signal report and one packet containing a signal report ack. He suggests the following protocol for 2-way packet radio METSCAT QSOs:

- 1) Both stations transmit multiple packets (100+) for 30-second intervals with the opposite call in the UNProto field. (W0RPK will transmit in the first half of each minute.)

W0RPK>WB4APR:CQ! (no other text) 00-30 seconds
WB4APR>W0RPK:CQ! (no other text) 30-60 seconds

- 2) When either station displays one or more packets containing both calls, that station will add a short signal report in their text field. Reports will be `Snn' with nn being the total number of packets received.

W0RPK>WB4APR:CQ! (no other text) 00-30 seconds
WB4APR>W0RPK:S06 30-60 seconds

- 3) When either station displays one or more packets containing their signal report, that station will add `R' in their text field indicating receipt of their signal report.

W0RPK>WB4APR:S03 00-30 seconds
WB4APR>W0RPK:S25R 30-60 seconds

- 4) When either station displays one or more packets containing acknowledgment of their signal report, they will add 73 in their text field indicating receipt of the acknowledgment.

W0RPK>WB4APR:S27R 00-30 seconds
WB4APR>W0RPK:S65R73 30-60 seconds

- 5) Both stations must display calls, signal reports and acknowledgments before the QSO is complete.

W0RPK>WB4APR:S32R73 00-30 seconds
WB4APR>W0RPK:S72R73 30-60 seconds

Each station should transmit as many UI packets as possible in it's assigned 30-second interval. W0RPK will be using a transmit controller running a simple program to save wear on the <ENTER> key (and operators).

For further information:

Ralph Wallio, W0RPK	515-961-0383
Middle River Valley Radio Observatory	W0RPK @ W0AK.IA
1250 Highway G24	wallio@dsmnet.com
Indianola, Iowa 50125	Monitoring 3.818MHz and 7.258MHz during the test

121. Re: 6 m MScatt plan REVISED?

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Mon, 7 Aug 1995 22:45:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950807224016.15336A-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

I did it. In version 72c, I just added a modified SEND command which can be used during MScat. It only permits one send line, but allows you to send the W0RPK proposed responses to make a valid TWO-WAY contact via MS. The only difference to W0RPK, though, is that it retains the 15 second timing vice the 30 second timing he proposes. I am NOT against the 30 second timing, but just dont have time to change that portion of the code... and test it...

I will upload these tomorrow after I go home and find the latest copy of MAPFIX15 which some folks are also waiting on...

122. ERROR CODES IN APRS (IBM version)

From: AA8JK@aol.com
Date: Tue, 8 Aug 1995 12:01:36 -0400
To: aprssig@tapr.org
Message-ID: <950808120135_50519211@aol.com>
Rendered body type: text/plain

Where can I find the Error codes for APRS?

I seem to get ERROR 61 on my 8088 laptop every once in a while.

Thank you,

Steve Caesar AA8JK/VK4SID
TRI-STATE APRS WORKING GROUP

AA8JK@aol.com

123. CAP info on ftp?

From: Jerry Wyatt <jwyatt@amex-trs.com>
Date: Tue, 08 Aug 95 09:23:22 -0700
To: aprssig@tapr.org
Message-ID: <9508081623.AA43709@lineng.ipc.amex-trs.com>
Rendered body type: text/plain

>It might be interesting if this could be made available at tapr's ftp
>site as well, especially for those of us not associated with CAP.
>Just my opinion, however.
>
>Dick WB6NGC

Confused? Dick are you referring to the 48 page report on CAP/APRS or do you refer to the CAP NDRN News section on APRS?

Just trying to clarify your request!

Later
jerry wyatt

The opinions expressed in this message are those of the author only,
and do not necessarily reflect the opinions of American Express.

124. Re: [APRSSIG:2699] ERROR CODES IN APRS (IBM version)

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 8 Aug 1995 12:51:39 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950808124655.5590B-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

On Tue, 8 Aug 1995 AA8JK@aol.com wrote:

> I seem to get ERROR 61 on my 8088 laptop every once in a while.

THAT MEANS YOUR DISK IS FULL!

Since APRS automatically saves track histories and LOG files whenever the arrays fill up, you will find that sooner or later APRS will fill up your LOGS and HSTS directories.

Unless you have any need for these files, delete all the files in the LOGS directory, and delete all TK*. * files in your HSTS directory. If there is a particular.HST file you want to keep, simply rename it to something more descriptive, and delete the others.

125. APRS72c is posted

From: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
Date: Tue, 8 Aug 1995 13:01:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950808125205.5590C-100000@greatlakes.nadn.navy.mil>
Rendered body type: text/plain

APRS72c and upgrades (7bto72c, 71to72c, 72ato72c.zip) are now posted on the sig. (tapr/SIG/aprssi/upload). This version only has TWO changes:

- 1) It has a new MAPFIX15.bas/exe which should have a better CLEAR-PTS function for clearing those pesky single points during map making
- 2) A new SEND function for MeteorScatter. This is needed if you are going to try to make a valid 2-way MScat contact on 6 meters. See the new METEOR.txt file. It lets you send the W0RPK proposed message exchange needed for a valid TWO-WAY contact.

I think that 2 meter MScat will be so rare, that it won't even be worth trying this new msg feature. So if you have 72b and are on 2m only, then dont bother downloading the new files. Good luck.

126. Re: [APRSSIG:2694] Re: Newbie can't get his APRS to work!

From: Jess Girard <girard@panix.com>
Date: Tue, 8 Aug 1995 13:04:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950808130358.25355B-100000@panix.com>
Rendered body type: text/plain

Hi William:

Perhaps that's it. I seem to remember that it comes up in MORSE. I'll

check that out when I get to shack tonight.

73
Jess

127. 6M Packet METSCAT, Pre-test Test

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>
Date: Tue, 8 Aug 1995 12:10:48 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950808121048.40d1@dsm1.dsmnet.com>
Rendered body type: text/plain

1995 Perseids 6M APRS Packet Radio METSCAT Test
Ralph Wallio, W0RPK and Carl Richey, KB0QOQ

Pre-test test

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions of 100-packets will occur during the first half of each minute using standard 1200BPS AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT). I am open for QSO or beacon skeds.

The beacon system will be on-the-air Wednesday and Thursday, August 9-10, 0000-1400UTC for a shake-down cruise. Please post reception reports on this net.

Ralph Wallio, W0RPK
Middle River Valley Radio Observatory
1250 Highway G24
Indianola, Iowa 50125

515-961-0383
W0RPK @ W0AK.IA
wallio@dsmnet.com
Monitoring 3.818MHz and
7.258MHz during the test

128. Re: [APRSSIG:2700] CAP info on ftp?

From: Dick Mead <mead@skat.usc.edu>
Date: Tue, 8 Aug 95 10:47:25 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.807904045.mead@hamal.usc.edu>
Rendered body type: text/plain

The how-to tutorial was my main interest. It may be interesting to read the report also.

Dick

129. Home address/posit

From: Jerry Wyatt <jwyatt@amex-trs.com>
Date: Tue, 08 Aug 95 09:36:57 -0700
To: aprssig@tapr.org
Message-ID: <9508081636.AA33224@lineng.ipc.amex-trs.com>
Rendered body type: text/plain

All,

Here's my address Lat/Long.

N7QVU 3338.67N11209.21W

Jerry Wyatt

The opinions expressed in this message are those of the author only, and do not necessarily reflect the opinions of American Express.

130. WX Data Strings for NHS

From: JKANDEL@umiami.ir.miami.edu
Date: Tue, 08 Aug 1995 14:42:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HTU18PH27MA90LG9@umiami.ir.miami.edu>
Rendered body type: text/plain

I have been asked by the NWS and amateur folk at the National Hurricane Center to request that people putting out wx data strings on APRS especially during hurricanes keep units of wind speed in KNOTS and pressures in MILLIBARS.

Keep those APRS reports flowing. They ARE being monitored at the National Hurricane Center.

131. Voice REPEATER TNC interface

Here is my suggested interface for a TNC to a voice repeater controller so that it can pick off packets from the repeater input and mute the repeater output so that voice users do not hear the packets. It also uses the repeater kerchunk filter to prevent the repeater from even keying up on single packets when the repeater is not in use for voice.

2) If the repeater is NOT on the air, then a short packet will briefly open the squelch, but as soon as data appears, the COS is canceled so the Kerchunk timer in the repeater controller will assume this was just a brief kerchunk and never even key up the repeater. Even though the packet may be more than a second long, the kerchunk timer can be as short as 0.25 seconds or less, since the DCD cancels the COS.

```

RCLR      1k      CONTROLLER
COS  >---/\/\\/---*-----> COS INPUT
                                     |
                                     b | c
+5v  >---/\/\\/---*-----*-----| NPN
                                     | * e
TNC      10k      b | c
DCD  >---/\/\\/---| NPN      =====
LED      | * e      | 1uF      |
GND  *-----*-----*-----*-----GND

```

If you have access to your repeater controller. Begin planning to add this circuit. APRS position reports on voice repeaters is coming!

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Message-ID: <9508082212.AA19172@lineng.ipc.amex-trs.com>
Rendered body type: text/plain

Bob,

>Here is my suggested interface for a TNC to a voice repeater controller

A couple of questions?

What is the min/max time for a posit to xmit.. assuming that raw gps is max!

What happens with 'PL' on the repeater? 50-75% are PL'ed here in AZ!

Later
Jerry Wyatt

The opinions expressed in this message are those of the author only,
and do not necessarily reflect the opinions of American Express.

133. Re: [APRSSIG:2693] Re: SIG member location file?

From: "Michael Turner" <mturner@fox.nstn.ca>
Date: Tue, 8 Aug 1995 21:23:38 -0400
To: aprssig@tapr.org
Message-ID: <199508090126.WAA29994@Fox.NSTN.Ca>
Rendered body type: text/plain

VE3PRW Lat 4414.80N Long 07636.50W
Please advise if this is not the required data.

134. Re: [APRSSIG:2707] WX Data Strings for NHS

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Wed, 9 Aug 1995 03:12:31 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950809030836.1691C-100000@pinegov>
Rendered body type: text/plain

On Tue, 8 Aug 1995 JKANDEL@umiami.ir.miami.edu wrote:

> I have been asked by the NWS and amateur folk at the National Hurricane Center
> to request that people putting out wx data strings on APRS especially during
> hurricanes keep units of wind speed in KNOTS and pressures in MILLIBARS.
> Unfortunately there is no way of knowing at the Hurricane Center end -
> especially between knots and mph, so we have to trust to the word getting
> around.
>
> Keep those APRS reports flowing. They ARE being monitored at the National
> Hurricane Center.
>
> 73,
> Joel Kandel, KI4T
> jkandel@gate.com
>

Joel, the standard pressure entry is supposed to be the last three digits
in millibars....says so when you make the entry....ie: 083 is 1008.3
millibars....783 is 978.3 millibars...If the reading goes below
950...well its time to duck and cover anyway....

Perhaps the weather data could be repeated in the beacon text....such as
Cloudy/Breezy/1008.3 mbs FR/Wind 0225G30...

Kevin KD4UYR
Your amateur Weather Station in Seminole, Florida

135. SIG member location file !!!

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 9 Aug 1995 00:40:12 -0500
To: aprssig@tapr.org
Message-ID: <v01520d00ac4dfa60c624@[199.1.11.204]>
Rendered body type: text/plain

Sent the location data to Keith -- not the APRSSIG .

136. 6M Packet METSCAT, pre-test #1 report

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>
Date: Wed, 9 Aug 1995 10:33:06 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu

Message-ID: <950809103306.49b7@dsm1.dsmnet.com>

Rendered body type: text/plain

1995 Perseids 6M APRS Packet Radio METSCAT Test
Ralph Wallio, W0RPK and Carl Richey, KB0QQQ

Report on 1st pre-test

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions of 100-packets will occur during the first half of each minute using standard 1200BPS AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT). I am open for QSO or beacon skeds.

Results from 1st pre-test:

08Aug

23:59 W0RPK started beacon s/n 1

09Aug

00:04	K0BI rcvd s/n 626	EN72bm 400sm
00:18	W0RPK rcvd (1) K0BI beacon	
00:23	K0BI rcvd s/n 3031-3042	Long burn
00:35	W0RPK rcvd (2) K0BI QSO init	Response delayed (see 01:03)
00:36	K0BI rcvd s/n 4726-4728	
00:56	K0BI rcvd s/n 7228-7229	
00:59	K0BI rcvd s/n 7573-7576	
01:03	W0RPK sending K0BI S02	
01:40	W0RPK rcvd (1) K0BI S50+R	
01:45	W0RPK sending K0BI S03R73	Off 02:02-02:11 maintenance
02:24	W0RPK rcvd (2) K0BI 73 from EN72bm	QSO complete!

02:31 W0RPK restarted beacon s/n 7876

10:31	W0RPK sending K0BI QSO init	
10:43	W0RPK rcvd (4) K0BI QSO init	
10:44	W0RPK rcvd (2) K0BI QSO init	
10:45	W0RPK sending K0BI S04	
10:46	W0RPK sending K0BI S06	
10:51	W0RPK rcvd (8) K0BI S9R	
10:53	W0RPK sending K0BI S14R73	
10:56	K0BI rcvd (4) W0RPK S14R73	
10:56	K0BI sending W0RPK S14R73	
11:00	K0BI shut down	QSO not complete

11:18 W0RPK restarted beacon s/n 67751

13:34 W0RPK shut down beacon s/n 86125

Jim Roop, K0BI, in EN72bm is running 150W into a 6-element Yagi at 88-feet and a homebrew PC transmit control program. W0RPK is running 150W into a 5-element Yagi at 14-feet and a homebrew TRS-80 Model-100 transmit control program. (Jim will share his transmit control program. Contact him at JROOP@fcc.gov).

A second pre-test will run 10Aug 0000-1400UTC. All stations in METSCAT range (1200-miles) are encouraged to participate.

Ralph Wallio, W0RPK	515-961-0383
Middle River Valley Radio Observatory	W0RPK @ W0AK.IA
1250 Highway G24	wallio@dsmnet.com
Indianola, Iowa 50125	Monitoring 3.818MHz and 7.258MHz during the test

137. Mapping question

From: wharrell@cris.com
Date: Wed, 9 Aug 1995 11:54:32 -0400
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199508091554.LAA24486@deathstar.cris.com>
Rendered body type: text/plain

I recently downloaded the USGS2MAP.BAS and tried to run it, after having some success with the 1.200,000 scale data. I wanted to try the 1.100,000 data with the usgs2map.bas and got the error in the file i've downloaded 2 times. There was a bad line that has the first missing.

Can anyone help out with where to get a good version from ftp site?

I got a sample of the 1.100,000 data to try building more detailed maps of south Georgia, and the one I have has a .gz extension, the other 200,000 had the extension mentioned in the other basic program and it worked. Have I got hold of the wrong data file?

Thanks in advance for the help, from South Georgia, where we need better maps.

73 de Wayne
WD4LYV @ WD4LYV
WHARRELL @ CRIS.COM

138. Re: Posits Request..

From: "Robert R. Adams" <radams@infinet.com>
Date: Wed, 9 Aug 1995 13:17:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950809131159.22772A-100000@rigel>
Rendered body type: text/plain

W8BK0>APRS:!4004.64N/08258.16WM

W8CQK-4 Wide area digi at same location - Freq. 145.79

73, R. Adams, W8BK0

139. Re: [APRSSIG:2714] Mapping question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 9 Aug 1995 15:25:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950809152407.3883C-100000@greatlakes>
Rendered body type: text/plain

On Wed, 9 Aug 1995 wharrell@cris.com wrote:

> I recently downloaded the USGS2MAP.BAS and tried to run it,
> after having some success with the 1.200,000 scale data.
> I wanted to try the 1.100,000 data with the usgs2map.bas and got the
> error in the file i've downloaded 2 times.

APRS REPLY: APPLES and ORANGES! USGS2MAP is only for 2,000,000 data.

140. 6m MScatt scorecard (1)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 9 Aug 1995 17:44:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950809162815.3883E-100000@greatlakes>
Rendered body type: text/plain

This is a SIX meter list of participants. Since we expect lots of stations on 2 meters (every APRS station in the country), we will not make a 2 meter list until reports come in, if any...

SIX METERS:

CALL	GRID	AREA	SUCCESES	(p means posit, * is 2-way)
------	------	------	----------	-----------------------------

W0RPK		IOWA		* (early tests on 9 aug)
K0BI	EN72bm	Grand Rpd	MI	*
N3MNT	FM19sa	Maryland		
W3ADO	FM18sx	Maryland		(just found out my radio only puts out 5w!)
VA3MW		Ontario		
W5SR	DM95cf	Amarillo	TX	
KN6PE		CA Bay area		
KD6SQ		Calif ?		
W0LCP	EN35jk	Minneapolis	Mn	

For now, report successes only. If you are on 6m and not on this list, please let us know.

141. MORE 'small VHF crystal radio'

From: Jerry Wyatt <jwyatt@amex-trs.com>
Date: Wed, 09 Aug 95 14:33:04 -0700
To: aprssig@tapr.org
Message-ID: <9508092133.AA32668@lineng.ipc.amex-trs.com>
Rendered body type: text/plain

Still looking for tech manual on the Maxon radio, but here is some more tidbits!

Maxon VHF radio
Model - DM0515
Size - 2 3/8 x 4 7/8 x 7/8 case only without BNC and DB-9, with about 5 1/2"

I stated that it was from a 4 channel ht, but this version has no switch to change channels, therefore it is basically a single channel, without rigging..it will hold 8 crystals tho.

I'd prefer not to do this buying/selling thing, so if Paul(Paccomm) or someone else has a source then speak up. I have received 8-10 requests since posting last week!

Later
jwyatt

The opinions expressed in this message are those of the author only,
and do not necessarily reflect the opinions of American Express.

142. Re: [APRSSIG:2691] Re: Posits Request..

From: Lambrc@aol.com
Date: Wed, 9 Aug 1995 18:37:27 -0400
To: aprssig@tapr.org
Message-ID: <950809183726_51479138@aol.com>
Rendered body type: text/plain

WB7VDN>APRS:!3436.60N/08632.22W-SE Huntsville AL.

Ron Lamb
WB7VDN
@k4BFT.#NOAL.AL.USA.NA

143. Re: [APRSSIG:2719] Re: Posits Request..

From: wnolle@ro.com (William Nolle)
Date: Wed, 09 Aug 1995 18:10:39
To: aprssig@tapr.org
Message-ID: <199508092318.SAA24462@sh1.ro.com>
Rendered body type: text/plain

KE4EER>APRS:!3458.34N/08629.53W-Hazel Green AL.

William Nolle
KE4EER
wnolle@ro.com
KE4EER@K4BFT.#NOAL.AL.USA.NA

144. NEMA TYPE FOR APRS ??

From: "Bernard C. Barnes" <74362.1502@compuserve.com>
Date: 09 Aug 95 20:18:40 EDT
To: "INTERNET:aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <950810001840_74362.1502_HHG65-1@CompuServe.COM>
Rendered body type: text/plain

Hi everyone:

I just bought a IIMorrow Apollo Precedus GPS at EAA Oshkosh airshow but was unable to get the serial cable. Cable now on order from factory. Hopefully, the cable will be accompanied by some instructions but I have my doubts since the cable was originally intended to be accompanied by a computer program to allow database updates and that software is not ready for release.

The Precedus menu and accompanying manual indicates serial output modes of NEMA 0183- 1.5 and NEMA 0183-2.0 but there are no other explanations. Any body got info or thoughts Thanks Barney W8KJM

145. RE: [APRSSIG:2721] NEMA TYPE FOR APRS ??

From: Don Marsh <iim1djm@iim.ups.com>
Date: Wed, 09 Aug 95 18:12:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <30295D83@billgate>
Rendered body type: text/plain

Barney- I work for II Morrow - if you give me your E-mail address and/or landline # and I'll try to get you some more information. You can also call 1-800-525-6726. Do you need the specs for the NEMA formats?

Regards and 73,
Don Marsh WB4YXI
iim1djm@iim.ups.com

From: aprssig
To: aprssig
Subject: [APRSSIG:2721] NEMA TYPE FOR APRS ??
Date: Wednesday, August 09, 1995 7:21PM

Hi everyone:
I just bought a IIMorrow Apollo Precedus GPS at EAA Oshkosh airshow but was unable to get the serial cable. Cable now on order from factory.
Hopefully,
the cable will be accompanied by some instructions but I have my doubts since
the cable was originally intended to be accompanied by a computer program to allow database updates and that software is not ready for release.
The Precedus menu and accompanying manual indicates serial output modes of NEMA 0183- 1.5 and NEMA 0183-2.0 but there are no other explanations. Any body got info or thoughts Thanks Barney W8KJM

146. [aprssig:2673] ciba results

From: mike.manes@filebank.com
Date: Wed, 09 Aug 95 19:30:41
To: aprssig@tapr.org
Message-ID: <9508091930.0RERK01@filebank.com>
Rendered body type: text/plain

Hi,
Congrats on your flight! Hope you didn't leave it up there!

EOSS has encountered occasional gps dropouts as well. Last flight, we changed the "look angle" parameter to include the horizon, and we kept solid lock from preflight thru recovery. Might give that a try.

73, Mike W5VSI EOSS mike.manes@filebank.com

147. Re: [APRSSIG:2720] Re: Posits Request..

From: BenW5SR@aol.com
Date: Wed, 9 Aug 1995 21:57:53 -0400
To: aprssig@tapr.org
Message-ID: <950809215748_70544295@aol.com>
Rendered body type: text/plain

W5SR>3514.12N/10149.54W Amarillo, TX. Have about 12 others on APRS now and growing. Gateway up on 30m to 145.01, 2 Wides on 145.01. Moving to 145.79 in near future as I get the \$\$\$.

148. [APRSSIG:2425] Re: help with KPC3 V 6.0

From: rkramer@vaxxine.com (Ronald Kramer)
Date: Wed, 9 Aug 1995 23:50:50 -0400
To: aprssig@tapr.org
Message-ID: <9508100350.AA12262@alpha.vaxxine.com>
Rendered body type: text/plain

I have been asked to resend this message so here it is again,
Bob maybe you can put as a text file in your readme's
Here is how I have my KPC 3 standalone tracker set up

AB 4800 (rs232 speed)

B E 0 (normal modem beacon)

BLT 1 EVERY 00:01:00 START AT 00:00:00 (EVEN MINUTE SAT TIMER)
BLT 2 EVERY 00:01:00 START AT 00:00:30 (30 SECONDS AFTER THE MINUTE SAT TIMER)
BLT 3 EVERY 00:00:00 (NOT USED)
BLT 4 EVERY 00:00:00 (NOT USED)

[these are so you can have different beacons at different times see LT1..LT4 also]

CTEXT MOBILE APRS NO OPERATOR PRESENT PLEASE DISCONNECT

GPS 1 \$GPGGA (LAT LONG ALT GOOD BAD #SAT'S NOICE LEVEL CHECKSUM)
GPS 2 \$GPRMC (LAT LONG DIRECTION SPEED CHECKSUM)
GPS 3 \$GPGLL (LAT LONG CHECKSUM)
GPS 4 \$GPGGA "

[this lets you set up different strings for different paths]

HB 1200 (radio port speed)

```

INTERFACE GPS      ( SET THIS LAST THEN TURN KPC3 OFF THEN ON FOR GPS MODE)

LT 1 (ARRIVED AT FROM GPS INFO)
LT 2 "
LT 3 "
LT 4 "

LTP 1 APRS VIA WIDE,WIDE (EVEN MINUTE UNPROTO PATH FOR APRS)
LTP 2 APRS VIA RELAY,WIDE,WIDE (30 SEC AFTER MINUTE UNPROTO PATH FOR APRS)
LTP 3 APRS VIA RELAY,WIDE,GATE,GATE,WIDE (UNUSED NOT SET WITH BLT3)
LTP 4 APRS VIA WIDE,GATE,GATE,WIDE (UNUSED NOT SET WITH BLT4)

[these are so that you can have different unproto paths times set with
BLT1..BLT4]

LTR 10 LT1 LT2 (set so that when you connect to the PBBS on tnc you can get 10k
of the fifo fixes that your lt1 and lt2 sent out)

MYCALL VE3MX-15
MYALIAS RELAY ( I SET MINE TO MOBILE-1 OR TURN DIGPEAT OFF)
MYPBBS VE3MX-1
MYREMOTE VE3MX-6

RTEXT (YOUR PASSWORD STRING HERE)

UNPROTO APRS VIA RELAY,WIDE,WIDE (for use if you have your normal tnc bt
turned on)

NUMNODES = 0
CMMSG DISC

PBBS 5 (set your pbbs on with 5k of ram)

The rest are factory defaults I beleive.

Hope this helps you set up your KPC-3
Regards, Ron ... 73 de Ron
Internet: rkramer@vaxxine.com (Ron Kramer)
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

```

149. Re: [APRSSIG:2691] Re: Posits Request..

```

From: "Bruce LeGrande" <keeper@wco.com>
Date: Wed, 9 Aug 1995 22:13:43 +0000
To: aprssig@tapr.org
Cc: quarry@q.continuum.net (Chip Griffin)
Message-ID: <199508100520.AAA01672@sys1.tapr.org>
Rendered body type: text/plain

KB6LWN>APRS:!3846.29N/12241.32WM

All The Best...

Bruce LeGrande - SysOp: Covenant Keeper Network Server
E-Mail: keeper@wco.com WebPage: http://www.wco.com/~keeper/
Packet: KB6LWN@KE6LW NOS: kb6lwn@solake.ampr.org [44.4.46.4]
Fidonet: sysop@f777.n10.z1.fidonet.org (1:10/777.0)

... Covenant Keepers Inc. (Tulsa OK) - An Alternative to divorce!

```

150. Posits Request -- NOT TO SIG

```

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 10 Aug 1995 00:21:23 -0500
To: aprssig@tapr.org
Message-ID: <v01520d01ac4f4236c2e2@[199.1.11.113]>
Rendered body type: text/plain

Bob Bruninga posted this on Jul 13 1995
=====
KEITH wants all POSITS to go to him, but he neglected to sugest a format
because he has not yet written the code: But his job will sure be easier
if we all use the SAME format. Here Keith is MY input.

POS:W3ADO :3859.11N/07629.11W&Naval Academy

FORMAT: POS: this is an alert for Keith to SEARCH for
Callsign padded to 9 spaces
LAT/LONG in APRS format

```

SYMBOL character & for gateway
y for Beam antenna (DF resource)
- home QTH
. others.
COMMENTS up to 35 characters

EVERYONE else send yours to KEITH, ### NOT THE SIG! ###

Here is the E-mail address for your chairperson of the APRSSIG:
Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

Bob W.

151. RE: NEMA TYPE FOR APRS ??

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 10 Aug 1995 00:21:41 -0500
To: aprssig@tapr.org
Message-ID: <v01520d00ac4f37a6479d@[199.1.11.113]>
Rendered body type: text/plain

>modes of NEMA 0183- 1.5 and NEMA 0183-2.0 but there are no other
>explanations. Any body got info or thoughts

----- NOTE -----
NMEA = National Marine Electronics Association
NEMA = National Electronics Manufactures Associations and Nematodes.
"There is an Aggie joke, on me, in this- which I might explain later"

My Garmin uses: RMC RMB GGA GSA GSV GSV RME GLL RMZ RMM RTE

Here is a set of NMEA 0183-2.0 from my Garmin-45 unit via MacAPRS.

```
$GPRTE,1,1,c,0*07
$GPRMC,030901,A,3246.860,N,09627.043,W,021.6,181.2,020895,,*0D
$GPRMB,A,,,,,,,,,V*71
$GPGGA,030901,3246.859,N,09627.043,W,1,06,1.5,133.0,M,-24.9,M,,*70
$GPGSA,A,3,01,,15,20,21,23,25,,,,,2.5,1.5,2.1*30
$GPGSV,2,1,07,01,53,033,43,05,09,047,00,15,34,299,44,20,27,086,41*7F
$GPGSV,2,2,07,21,54,113,52,23,18,121,41,25,66,207,50,,,*40
$PGRME,31.3,M,44.4,M,54.3,M*19
$GPGLL,3246.856,N,09627.043,W,030902,A*35
$PGRMZ,436,f,3*1A
$PGRMM,WGS 84*06
$GPRTE,1,1,c,0*07
```

Here's an excerpt from a log of the output of Chad R. Larson
Magellan Trailblazer:

```
$GPGLL,3337.190,N,11158.430,W,104432.686,A
$GPAPB,A,A,0.0,R,N,V,V,86.8,T,001,86.9,T,86.9,T
$GPGGA,104432.69,3337.19,N,11158.43,W,1,06,5.1,,,,,
$GPVTG,0.0,T,347.6,M,0.0,N,0.0,K
$GPBWC,104432.69,3337.36,N,11154.54,W,86.9,T,74.6,M,3.2,N,001
```

=====

I use the GGA for stand alone tracking so let decode that one.
(I have added spaces to allign fields)

```
$GPGGA,104432.69,3337.19,N,11158.43,W,1,06,5.1,,,,,
$GPGGA,030901,3246.859,N,09627.043,W,1,06,1.5,133.0,M,-24.9,M,,*70
```

```
$GPGGA,104432.69,3337.19,N,11158.43,W,1,06,5.1,,,,,
+++ Global Positioning System Fix Data
+++++ UTC of position
+++++,+, Latitude - N/S (DDmm.mm) (DDD.mm.mm) E/W
+, GPS quality indicator
0 = fix not available or invalid
1 = GPS fix
```

```

++, Number of satellites in use
+++, Horizontal dilution of
    precision (HOP)

```

The "language" of NMEA 0183 is extensive but not difficult to understand. The ground rules are these: maximum sentence length is 80 characters including the starting "\$," the terminating <CR><LF>, and everything in between. Minimum number of data fields is two, including the address field (talker identifier and sentence format). If data for any field is unavailable, a "null" field, two commas with nothing between them (",,") can be sent instead.

Cindy Ensley
National Marine Electronics Association
P.O. Box 3435
New Bern, North Carolina
28564-3435
Phone (919)637-7759
Fax (919)637-8136

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

Bob Baltz *
Chesapeake Region Sales *
Ph: (410) 987- 8777 *
Fax: (410) 987-4489 *
E-mail bob.baltz@ustc.vlsi.com *

Page 888

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Thu, 10 Aug 1995 08:39:20 +0000
To: aprssig@tapr.org
Message-ID: <9508101234.AA11687@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

POSITION REPORTS SHOULD BE SENT DIRECT TO KEITH NOT ON SIG

Bob Baltz *
Chesapeake Region Sales *
Ph:(410) 987- 8777 *
Fax: (410) 987-4489 *
E-mail bob.baltz@ustc.vlsi.com *

155. Re: [APRSSIG:2729] Re: MORE 'small VHF crystal radio'

From: bottmgun@emi.net
Date: Thu, 10 Aug 1995 10:06:12 -0400
To: aprssig@tapr.org
Message-ID: <199508101422.KAA14750@athens.emi.net>
Rendered body type: text/plain

Gwyn,

I would like a copy of the MAXON VHF radio specs. In addition, please send a catalog to:

Jay K. Jeffries
4301 NW 53rd Court
Coconut Creek, FL 33073-4007
Tel: (305) 421-9121
E-mail: bottmgun@emi.net

This is my fourth request for a catalog in 2 months with no response!
Thanks for your help.

Respectfully,
Jay

>PacComm is a Maxon dealer and we have used the DM-0515 (VHF) and DM-0530 (UHF)
>data transceivers since 1986 when they were new.
>
>I don't like to use this forum as a sales medium and apologize for Paul
>tossing in his notice about this.
>
>There are a number of queries to PacComm about the radio which will be answered
>later today when the specs have been put in electronic form. Please contact
>us directly rather than via the forum.
>
>73,
>Gwy
>make that Gwyn
>
>-----
>Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org
>
>+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)
>
>PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618
>
>

156. MAXON DM-0515 & DM-0530

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Thu, 10 Aug 95 11:07:35 UTC
To: aprssig@tapr.org
Message-ID: <3158@paccomm.com>
Rendered body type: text/plain

Ref. MAXON specifications message

I have found the DM series to be good radios for 1200 AFSK and 2400 MSK work, but not very good for 9600 DFM. We've tweaked on them a lot, but the recovered eye pattern is always marginal.

They are in the same price class as the TEKK KS-960. Contact me privately if you want sales or pricing information.

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org
+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)

157. Tiny 2 MK II

From: <ROBERTST@BENNING-EMH1.ARMY.MIL>
Date: Thu, 10 Aug 95 11:42:36 EST
To: <aprssig@tapr.org>
Message-ID: <199508101541.KAA05181@sys1.tapr.org>
Rendered body type: text/plain

A friend of mine (W4DUF) has the Tiny 2 MK II with the built in GPS. Is there anyway to talk directly to the GPS portion of the TNC. He needs to slow down the data output interval from say 1 second to some slower.

He also get an occasional ERROR 6 message. What is this?

Thanks,

Tom
NL7ZL
robertst@benning-emh1.army.mil

158. Distance Formula

From: "Tony Flusche" <tony_flusche@compuware.com>
Date: Thu, 10 Aug 95 09:30:33 EDT
To: aprssig@tapr.org
Message-ID: <199508101641.AA13986@stargate.compuware.com>
Rendered body type: text/plain

It took me awhile to remember where I saw this but her it is. I am looking at the ARRL Operating Manual, third edition dated 1988. Chapter 4 on Antenna Orientation has a section on "Direction and Distance by Trigonometry". In my book it begins on page 4-4. On page 4-5 there is a Basic program to solve for distance and bearing. 73
Tony AB6BR

_____ Reply Separator
_____ Subject: [APRSSIG:2256] Distance
formula?
Author: aprssig@tapr.org at CWUS-Internet Date: 7/26/95 12:20 AM
XFrom: jra@ag9v.ampr.org
To: aprssig@tapr.org
Subject: [APRSSIG:2256] Distance formula?

I'm working on a little program to take a history file and general a summary of it, including the actual distance covered (measured from point to point). We're in the middle of moving, and all my reference books are packed away, so I wonder if anyone can send me the formulas to generate distance and bearing between two points specified in lat/long.

Thanks.

John

159. 6m MScatt scorecard (2)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 10 Aug 1995 15:21:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950810150828.15348B-100000@greatlakes>
Rendered body type: text/plain

This is a SIX meter matrix of known stations for recording packets. Since we expect lots of stations on 2 meters (every APRS station in the country), we will not make a 2 meter list until reports come in, if any...

SIX METERS			W
CALL	GRID	AREA	Ø K
			R Ø
			P B
			K I
-----			-----
WØRPK	IOWA		. * 2-Way (early tests on 9 aug)
KØBI	EN72bm	Grand Rpd	MI * 2-Way
N3MNT	FM19sa	Maryland	1 One packet printed (11th @ 0600z)
W3ADO	FM18sx	Maryland	1 pkt heard (TNC not connected 1330z)
VA3MW	Ontario		

W5SR DM95cf Amarillo TX
KN6PE CA Bay area
KD6SQ Calif ?
W0LCP EN35jk Minneaplis Mn
W9DHK DM13ao So. Calif

For now, report successes only. If you are on 6m and not on this list,
please let us know.

160. Re: [APRSSIG:2736] 6m MScatt scorecard (2)

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Thu, 10 Aug 1995 16:29:57 +0000
To: aprssig@tapr.org
Message-ID: <9508102025.AA11999@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

>This is a SIX meter matrix of known stations for recording packets.
>Since we expect lots of stations on 2 meters (every APRS station in the
>country), we will not make a 2 meter list until reports come in, if any...

>			W
>			0 K
>			R 0
>SIX METERS			P B
>CALL	>GRID	>AREA	K I

>W0RPK		IOWA	. * 2-Way (early tests on 9 aug)
>K0BI	EN72bm	Grand Rpds MI	* 2-Way
>N3MNT	FM19sa	Maryland	1 One packet printed (10th @ 0200z)
>W3ADO	FM18sx	Maryland	1 pkt heard (TNC not connected 1330z)
>VA3MW		Ontario	
>W5SR	DM95cf	Amarillo TX	
>KN6PE		CA Bay area	
>KD6SQ		Calif ?	
>W0LCP	EN35jk	Minneaplis Mn	
>W9DHK	DM13ao	So. Calif	
>			

>For now, report successes only. If you are on 6m and not on this list,
>please let us know.
corrected time for N3MNT

Bob Baltz	*
Chesapeake Region Sales	*
Ph: (410) 987- 8777	*
Fax: (410) 987-4489	*
E-mail bob.baltz@ustc.vlsi.com	*

161. 2nd try at uploading Maxon info. First one disappeared.

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Thu, 10 Aug 95 16:57:49 UTC
To: aprssig@tapr.org
Message-ID: <3178@paccomm.com>
Rendered body type: text/plain

Due to my delay in getting this information out and the number of inquiries
I'm posting it to the SIG. I hope it is useful

----- Forwarded message -----

>From gwyn Thu Aug 10 16:56:42 1995
Received: from paccomm.com by paccomm.com (TNOS1.11b14) with SMTP
id AA19662 ; Thu, 10 Aug 95 16:56:42 UTC
X-BBS-Msg-Type: P
Date: Thu, 10 Aug 95 16:56:42 UTC
Message-Id: <3177@paccomm.com>
From: gwyn
To: gwyn@paccomm.com
Subject: Information about MAXON DM-0515

MAXON DM-0515 GENERAL SPECIFICATIONS

Power Supply	10.8VDC+/-5%
Antenna Impedance	50 ohms, unbalanced
Temperature Range	-30 degrees C. to +60 degrees C
Humidity	90%, non-condensing
Frequency Range	148 MHz to 168 MHz
Frequency Stability	+/-0.0005%
Frequency Control	Quartz crystal, installed
Channel Capacity	1 channel, simplex or half duplex

Required FCC Compliance Part 15, 21, 90, 95

RECEIVER PERFORMANCE SPECIFICATIONS

Sensitivity	0.35 V or better (12dB SINAD) (1)
Noise Quieting	20dB or better at 0.5 V (1)
Receiver Recovery After PTT Released	18 milliseconds or less
Modulation Acceptance Bandwidth	+/-7.0 kHz
Spurious and Image Rejection	At least -70dB
Intermodulation Rejection	At least -60dB
Selectivity	At least -75dB at +/-25kHz of channel
Audio Output	At least 200mV RMS into 30K ohms @ 2.6kHz deviation with a 1kHz modulation tone
Audio Frequency Response	-4dB maximum @ 4.8kHz, down no more than -10dB at 770kHz (2)
Audio Harmonic Distortion	4% or less with a 10 microvolt input RF level, 1kHz modulating tone a +/-2.6kHz deviation. (1)
Receiver Current	20mA maximum

TRANSMITTER PERFORMANCE SPECIFICATIONS

Carrier Power Output	2 watts, +/-10% depending on voltage source
Audio Harmonic Distortion	No more than 5% for a 1kHz modulating tone at +/-3.0kHz deviation
Maximum Deviation Capability	At least +/-5kHz
Modulation Limiting	Instantaneous peak clipping with low pass audio filter
Audio Input Level	250 to 350mV RMS for 5.0kHz deviation @ 1kHz, adjustable
Deviation vs. Temperature	+/-0.2kHz over operating temperature range
FM Hum and Noise	At least -50dB down
Output Protection	Shall withstand for 5 minutes all VSWR around Smith chart of 20:1 without failure or damage
Input Current	Not more than 600mA with 2 watts average power output at 10.8V
Spurious and Harmonic Emissions	Less than -60dB
Attack Time Time from PTT to full power, frequency within tolerance, and full modulation capability	less than 50 milliseconds
PTT Input	Floating the PTT line enables the receive mode, grounding the PTT line enables the transmit mode.
Maximum PTT current sourced from the PTT line during transmit mode with the line tied to ground	30mA

(1): These measurements shall be made using a CC1TT weighed filter.

(2): These measurements shall be made without filtering.

Radio will operate OK in 2 meter band and MAXON will accept orders for such frequencies.

PacComm offers these radios at \$189 on your choice of frequency. Shipping extra. Delivery 3-4 weeks.

If there is a group order for the same frequency we can probably go for \$169. Lets say a minimum of 10 radios, paid in advance.

We're not making much on these radios - they cost more than a TEKK....

----- End of forwarded message -----

Gwyn Reedy, WIBEL gwyn@paccomm.com WIBEL@amsat.org

+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

162. 6m MScatt scorecard (3)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 10 Aug 1995 18:38:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950810175740.17725A-100000@greatlakes>
Rendered body type: text/plain

OPERATING IDEAS for 6m MScat:

1) There are two operating cycles for this event. W0RPK is transmitting during the 1st 30 secs, and listening the remainder of each minute. He is a good target if you want a two-way. Everyone else that is using APRS will be using the 15 second timing built into APRS based on the four quadrants of the USA. These two rules will allow you to figure out when to transmit and when to listen to contact any of the other 6m stations.

2) So if you want to work RPK and you live in either the NE or SE, then you will have to forcibly skew your PC clock by 15 seconds so as NOT to transmit when he is transmitting. But otherwise, the automatic APRS scheduling should provide a default assumption about when everyone else is transmitting.

This is a matrix of all known SIX METER stations for the Persieds Shower. Since we expect lots of stations on 2 meters (every APRS station in the country), we will not make a 2 meter list until reports come in, if any...

```
TRANSMITTING STATION -->   W
                             Ø K
                             R Ø
REPORTING STATIONS         P B
CALL  GRID  AREA          K I
-----
W0RPK      IOWA           . * 2-Way (early tests on 9 aug)
K0BI  EN72bm Grand Rpd MI * 2-Way
N3MNT  FM19sa Maryland    1 One packet printed (11th @ 0200z)
W3ADO  FM18sx Maryland    (10W only, so dont bother looking)
VA3MW   Ontario
W5SR   DM95cf Amarillo TX
KN6PE   CA Bay area
KD6SQ   Calif ?
W0LCP  EN35jk Minneaplis Mn
W9DHK  DM13ao So. Calif
```

For now, report successes only. If you are on 6m and not on this list, please let us know.

163. Re: [APRSSIG:2739] 6m MScatt scorecard (3)

From: mark@tetherless.com (Mark Oppenheim)
Date: Thu, 10 Aug 1995 17:28:17 -0700
To: aprssig@tapr.org
Message-ID: <199508110028.RAA07989@gorgor.pa.tetherless.com>
Rendered body type: text/plain

At 06:32 PM 8/10/95 -0500, Bob Bruninga wrote:

>OPERATING IDEAS for 6m MScat:

> 1) There are two operating cycles for this event. W0RPK is transmitting
>during the 1st 30 secs, and listening the remainder of each minute. He
>is a good target if you want a two-way. Everyone else that is using
>APRS will be using the 15 second timing built into APRS based on
>the four quadrants of the USA. These two rules will allow you to figure
>out when to transmit and when to listen to contact any of the other 6m
>stations.

(Stuff omitted)

If stations are looking for a way to easily sync to NIST (the old WWV) there is a program called NBSCOM that was originally written for AMSAT ops for LEOSAT tracking that will use your modem, and call Colorado and set your PC clock for you. It won't do the 15 second offset that some stations will require, nor will compensate for slow/fast PC clocks, but will initially set your PC to the correct time (either local or GMT).

It's not very big, and I can upload a version of it here (as a UUencoded file), or place it on our FTP site if there is interest. It's also on COMPUSERVE.

Mark
KD6KQ

164. APRS Meteor Shwr OOPS!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 10 Aug 1995 21:30:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950810204429.18223A-100000@greatlakes>
Rendered body type: text/plain

OK, Im finally set up at 0100z Thurs nite:

- 1) W3ADO-2: 400 watts on 2m into 18 db gain dish pointed from MD over Charleston to Tampa with a 10 degree beamwidth.
- 2) WB4APR-6: 10 watts (yuk!) on 6m pointed 286 deg from MD towards Iowa
- 3) WB4APR-2: 100 W on 2m pointed 286 deg from MD towards Iowa

LESSON LEARNED! Forgot about automatic collision avoidance! With three of us locals, if we all fire up in the same 15 second interval, the 2nd two TNC's wait till the channel clears, spreading packets well into the next 15 second interval! (even tho APRS sent them on schedule.)

FIX: If there are 3 locals you hear direct, then be sure to set your duty cycle to 33%. Two of you, go 50%. If there are lots, then maybe only the MOST POWERFUL should transmit.

PROBLEM: Problem is, the CONTROLS-XMT-OFF does NOT work for MS! ARGH@#\$\$!
If you exit MS mode so you can set C-X to off, then you wont see MS posits!

SOLUTION: Is for all low power stations to get out of MS mode, but be sure to set CONTROLS-FILTERS-OTHER on so that they WILL CAPTURE a MS packet, but it will just not be plotted on the map. You CAN see the guys Gird Square by looking on the D-LIST! Then use the OPS-FIND-[command to let APRS show you where that GS is..

ALSO if you are NOT in MS mode, then set CONTROLS-FILTERS-DIRECT to ON, so that your APRS will ignore all digipeated packets. This will make it easier to see the DIRECT signals only (even if they come from 1000 miles away!)

165. Re: [APRSSIG:2695] For the wish list

From: moyers@ibm.net
Date: Thu, 10 Aug 95 21:40:50
To: aprssig@tapr.org
Message-ID: <9508110442.AA0221@slip35-157.il.us.ibm.net>
Rendered body type: text/plain

> For the wish list I suggest that in some future version you add an
> autodetect mouse configuration capability. I note that 7.2b honors the
> Microsoft Mouse. However mine is a Logitech Bus Mouse and APRS doesn't
> even know that it is there.
>
> Priority is "not important ... nice to have".
>
>
> William Manley KB4XE
> z002594b@bcfreenet.seflin.lib.fl.us
>
I'll go for this, only I use a Microsoft bus mouse on IRQ 2.

John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

166. Re: [APRSSIG:2732] Re: MORE 'small VHF crystal radio'

From: rwf <rwf@mindspring.com>
Date: Thu, 10 Aug 1995 23:14:09 -0400
To: aprssig@tapr.org
Message-ID: <199508110314.XAA01630@dylan.mindspring.com>
Rendered body type: text/plain

Jay-
Try sending that msg to GWYN@PACCOMM.COM as email. He didn't want business in the APRSSIG.

167. "Reply To" header improvement

From: rwf <rwf@mindspring.com>
Date: Thu, 10 Aug 1995 23:45:42 -0400
To: aprssig@tapr.org
Message-ID: <199508110345.XAA09444@dylan.mindspring.com>
Rendered body type: text/plain

Keith Sproul-

As much as I try to check and double check, I (and others) can't seem to stop accidentally posting "private" replies to the SIG (as I just did before

this one).

Isn't there a way that the "Reply To" field can be left blank by the mail list program? This would force us to double check who we were sending the msg to?

I don't like to waste public bandwidth either, and I'll bet that a lot of these posts are accidentally made.

Anyone else feel the way I do?

Thanks

Ralph

168. Re: [APRSSIG:2744] "Reply To" header improvement

From: quarry@q.continuum.net (Chip Griffin)
Date: Fri, 11 Aug 1995 00:13:14 -0400
To: aprssig@tapr.org
Message-ID: <v01520d00ac50873066e5@[199.0.52.54]>
Rendered body type: text/plain

[...]
>Isn't there a way that the "Reply To" field can be left blank by the mail
>list program? This would force us to double check who we were sending the
>msg to?
[...]
>Anyone else feel the way I do?

Yes! I was the victim of this mistake when I started the latest rash of position posts ...

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

http://q.continuum.net/~quarry/

169. Re: [APRSSIG:2739] 6m MScatt scorecard (3)

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Fri, 11 Aug 1995 08:37:11 +0000
To: aprssig@tapr.org
Message-ID: <9508111232.AA12192@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

Update from N3MNT for 8/11
1:29 >100 pkts + cnfrmd 2-way W0RPK prob E-skip
2:24 1 complete pkt with Pos W0RPK

att times and dates UTC

```
>TRANSMITTING STATION --> W
>                               0 K
>                               R 0
>REPORTING STATIONS         P B
>CALL  GRID  AREA           K I
>-----+-----
>W0RPK          IOWA          . * 2-Way (early tests on 9 aug)
>K0BI   EN72bm Grand Rpds MI * 2-Way
>N3MNT   FM19sa Maryland     1 One packet printed (11th @ 0200z)
>W3ADO   FM18sx Maryland     (10W only, so dont bother looking)
>VA3MW           Ontario
>W55R   DM95cf Amarillo TX
>KN6PE           CA Bay area
>KD6SQ           Calif ?
>W0LCF   EN35jk Minneaplis Mn
>W9DHK   DM13ao So. Calif
>
>For now, report successes only. If you are on 6m and not on this list,
>please let us know.
```

Bob Baltz *
Chesapeake Region Sales *
Ph:(410) 987- 8777 *

170. APRS For Newton ?

From: "BRIAN FORD"
<BRIAN.FORD%IMSGEN01%CCGATE%BISVD1%MR@BISVG1.BIS.BLS.COM>
Date: 10 Aug 95 08:41:00 EST
To: "aprssig" <aprssig@tapr.org>
Message-ID: <"85658011805991/1879914@BISVD1"@BISVG1.BIS.BLS.COM>
Rendered body type: text/plain

With the prices of the Newton "Classic" down around \$150 has anyone
thought about (or done) an APRS Port to Newton?
Thanks
BF
KC4LYS
ford.brian@bis.bls.com

171. Re: [APRSSIG:2745] Re: "Reply To" header improvement

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Fri, 11 Aug 1995 09:21:35 -0500
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <9508111320.AA05339@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 11:23 PM 8/10/95 -0500, Chip Griffin wrote:
>[...]
>>Isn't there a way that the "Reply To" field can be left blank by the mail
>>list program? This would force us to double check who we were sending the
>>msg to?
>[...]
>>Anyone else feel the way I do?
>
Shouldn't be left blank but point to the sender of the message.
This list is the one which generates the most personal messages sent to the
listserv i've ever seen.
Suggestion: when you have a question for Bob (or ...), send it directly to
him, even if it is of general interest. When he answers to the list and
quotes the question everybody get it anyway.

Bernard, KB2TGH.

172. Re: [APRSSIG:2744] "Reply To" header improvement

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Aug 1995 09:20:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950811091825.20521E-100000@greatlakes>
Rendered body type: text/plain

Doesnt seem to be a problem here. WHEN ever I choose REPLY, my mailer
asks if I want to reply to the "REPLY TO" address or to the sender. I have
to hit N for NO to make it private. Seems easy enough...

173. Re: [APRSSIG:2749] Re: "Reply To" header improvement

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Fri, 11 Aug 1995 10:01:05 -0500
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <9508111400.AA05382@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 08:32 AM 8/11/95 -0500, Bob Bruninga wrote:
>Doesnt seem to be a problem here. WHEN ever I choose REPLY, my mailer
>asks if I want to reply to the "REPLY TO" address or to the sender. I have
>to hit N for NO to make it private. Seems easy enough...
>

Doesn't work with Eudora, and I think it doesn't work with mail on a sun
workstation (using raw unix).

The problem is that:

Reply-To, Originator and Sender fields contain: aprssig@tapr.org

Reply-To should be the original address and not the list address.

Bernard, KB2TGH.

174. 6m MScatt scorecard (4)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Aug 1995 10:05:15 -0400 (EDT)
To: aprssig@tapr.org
Cc: Prof Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.950811095112.20521H-100000@greatlakes>
Rendered body type: text/plain

This is a matrix of all known SIX METER stations for the Persieds Shower.
W0RPK xmts for the 1st 30 secs of each minute. Others are assumed to
be using the automatic 15 sec APRS scheduling:

TRANSMITTING STATION -->			W	N
			0	K 3
			R	0 M
REPORTING STATIONS			P	B N
CALL	GRID	AREA	K	I T

W0RPK		IOWA	.	* *99 2-Way
K0BI	EN72bm	Grand Rpd MI	*	2-Way
N3MNT	FM19sa	Maryland	1	1 pkt @ 0200 on 10th 900 Mi
			*99	E opening.
			1	1 pkt @ 0224 on 11th 900 Mi
WB4APR	FM19sx	Maryland	+99	E opening
W3ADO	FM18sx	Maryland		(10W only, so dont bother looking)
VA3MW		Ontario		
WS5R	DM95cf	Amarillo TX		
KN6PE		CA Bay area		
KD6SQ		Calif ?		
W0LCP	EN35jk	Minneapolis Mn		
W9DHK	DM13ao	So. Calif		

For now, report successes only. If you are on 6m and not on this list,
please let us know.

If you are in the Neast or Seast using APRS, then you will need to skew
your PC clock by 30 secs if you want to try to work RPK.

175. 6M Packet METSCAT Test 11Aug 1200Z Report

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>
Date: Fri, 11 Aug 1995 9:12:00 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950811091200.58cd@dsm1.dsmnet.com>
Rendered body type: text/plain

W0RPK 6M Packet Radio METSCAT Test - 1995 Perseids
Test Report #1, 11Aug95 1200UTC

W0RPK will transmit APRS compatible packet radio beacons on
50.620MHz during the 1995 Perseids meteor shower. Automatic
transmissions of 100+ packets will occur during the first half of
each minute using standard 1200BPS AFSK on FM modulation. During
the second half of each minute W0RPK will monitor for packets
from other stations. The test will start at 0001UTC 11Aug and
end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).

W0RPK went on-the-air with beacons at 11Aug95 0000UTC as scheduled.
At 12 of 96-hours, all station control, logging and RF functions are
AOK. During this first interval, 77,000 beacon packets were
transmitted, 2-way QSOs were completed with K0BI (EN72bm 400-miles)
and N3MNT (FM19sa 915-miles), and a reception report was received
from W3ADO (FM18sx 915-miles). Beacon transmissions continue.
Antenna pattern will be east pending requests for other directions.

Test log:

11Aug95
00:00 W0RPK beacon system start s/n 1
00:35 K0BI rcvd several beacons
00:51 W0RPK rcvd K0BI (1) QSO init
00:53 W0RPK xmit K0BI S01
01:13 W0RPK rcvd K0BI (3) S4R
01:15 W0RPK xmit K0BI S4R73
01:19 W0RPK rcvd K0BI (8) 73 from EN72bm
01:23 W0RPK xmit K0BI S11R73
01:25 K0BI reports QSO complete via 3818
01:28 W0RPK beacon restart s/n 6501
01:29 W0RPK rcvd N3MNT (8) FM19sa APRS beacons
01:32 W0RPK xmit N3MNT S08
01:39 W0RPK rcvd N3MNT (13) FM19sa APRS beacons
01:41 W0RPK rcvd N3MNT (many) FM19sa APRS beacons

01:42 W0RPK xmit N3MNT S21
01:43 W0RPK rcvd N3MNT 9many) APRS QSO acks
01:43 W0RPK xmit N3MNT S30+R73
01:51 N3MNT reports QSO complete via WB4APR telcon
01:54 W0RPK beacon restart s/n 6751
12:00 W0RPK beacon continues s/n 77060

Ralph Wallio, W0RPK
Middle River Valley Radio Observatory
1250 Highway G24
Indianola, Iowa 50125

515-961-0383
W0RPK @ W0AK.IA
wallio@dsnnnet.com
Monitoring 3.818MHz and
7.258MHz during the test

176. Re: [APRSSIG:2747] APRS For Newton ?

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Fri, 11 Aug 95 10:34:00 EDT
To: aprssig@tapr.org
Message-ID: <9508111434.AA07578@umed.med.miami.edu>
Rendered body type: text/plain

>
> With the prices of the Newton "Classic" down around \$150 has anyone
> thought about (or done) an APRS Port to Newton?
> Thanks
> BF
> KC4LYS
> ford.brian@bis.bls.com
>
>

Yea, I've thought about it. However, there are a few problems...first, the screen is quite limited in the number of pixels, so the maps wouldn't look good. Next, all the maps would have to be in the RAM soup at the same time, since there is no disk to keep them on, so forget about the 'Classic' Newton, even the 120 with its 2 MB would be awfully limited. A text only version could be done easily enough though.

Have you thought about how you would use it? Keep in mind you'd be limited to one serial port. In the mac, you don't have direct control over the hardware signals, so the scheme used by Bob for single port operation can't be implimented. I do not know if this same limitation applies to the Newton. There is a GPS that fits in the PC Card slot, and would be a way around that.

My feeling is that although it would be nice to have a handheld APRS station, a Newton, connected to a TNC and radio, and maybe GPS, would be at least two hands full. I don't think it is worth the effort.

Steve, K04HD
sdimse@umed.med.miami.edu

177. RE: [APRSSIG:2747] APRS For Newton ?

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Fri, 11 Aug 95 07:05:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <302B475B@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

I dunno about drawing maps on the Newton... but it would sure make a dandy data logger...

Al
AH6LS
sadowskp@usafcrqs.nellis.af.mil

From: aprssig
To: aprssig
Subject: [APRSSIG:2747] APRS For Newton ?
Date: Friday, August 11, 1995 8:24AM

With the prices of the Newton "Classic" down around \$150 has anyone thought about (or done) an APRS Port to Newton?
Thanks
BF
KC4LYS
ford.brian@bis.bls.com

178. 6 mtr activity?

From: Jerry Wyatt <jwyatt@amex-trs.com>
Date: Fri, 11 Aug 95 07:20:14 -0700
To: aprssig@tapr.org
Message-ID: <9508111420.AA26125@lineng.ipc.amex-trs.com>
Rendered body type: text/plain

I missed some of the original stuff on 6 mtr. I've got a 50w station that needs some work out.

Can someone post the freqs that we are to use for this testing?

jw

The opinions expressed in this message are those of the author only, and do not necessarily reflect the opinions of American Express.

179. 2M Mscatt stats(1)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Aug 1995 10:29:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950811100605.20521I-100000@greatlakes>
Rendered body type: text/plain

Here is the beginning of a status nmatrix for 2m APRS DX

```
TRANSMITTING STNS --> W
                        A
                        1
                        Y
RECEPTION REPORTS:    K
CALL  GRID  AREA      N
-----
```

WB4APR FM19dx Maryland 33 @ 0500z 11th 373 mi (probbly tropo)

I also saw numerous consistent packets all night from stns 120 to 180 miles north along the coast in NJ and NY, so assume tropo was indeed present.

Tonight at 0000z the 30,000 watts ERP from the Academy dish W3AD0 will be moved to point 232 deg from Maryland towards Atlanta.

Due to the collision avoidance of TNC's (not accounted for in APRS MScat mode) it is recommended that, where there are more than 2 or 3 stns within simplex range of each other, that only the BIG guns remain in MS mode. All others should return to conventional APRS but set CONTROLS-FILTER-DIRECT and OTHER and FADE to ON. They should also still NOT have any digipeaters in their paths.

Then everyone should check their D-LIST in the morning and see which stations they heard direct. Center the screen on your station and use the MAPS-PLOTS-RANGE to measure the range to any other stations heard direct. If they are further than 250 miles, then report it.

You may use the MAPS-PLOTS-GRID command to see the grid square of the cursor location, and use OPS-FIND-[grid to find the location of any grid report.

180. resend or 6mtr stuff for those requesting

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Fri, 11 Aug 1995 11:45:42 +0000
To: aprssig@tapr.org
Message-ID: <9508111541.AA12349@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

```
>1995 Perseids 6M APRS Packet Radio METSCAT Test
>Ralph Wallio, W0RPK and Carl Richey, KB0QOQ
>
>Test Information Part-II
>
>W0RPK will transmit APRS compatible packet radio beacons on
>50.620MHz during the 1995 Perseids meteor shower. Automatic
>transmissions will occur during the first half of each minute
>using standard AFSK on FM modulation. During the second half of
>each minute W0RPK will monitor for packets from other stations.
>The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug
>(Thursday evening to Monday evening CDT).
>
```

>Packet transmissions will use standard 1200BPS AFSK on FM as
>typically used in local packet radio networks. Beam headings
>will be controlled by 2-way QSO attempts, by requests for specific
>beacon paths and to take advantage of predicted path peaks.
>
>Claiming a complete METSCAT QSO requires both stations to receive
>and display a minimum of one packet containing both calls, one
>packet containing a signal report and one packet containing a
>signal report acknowledgment. I suggest the following protocol
>for 2-way packet radio METSCAT QSO attempts:
>
>1) Both stations transmit multiple packets (100+) for 30-second
>intervals with the opposite call in the UNProto field.
>(W0RPK will transmit in the first half of each minute.)
>
>W0RPK>WB4APR: (no text) 00-30 seconds
>
>WB4APR>W0RPK: (no text) 30-60 seconds
>
>2) When either station displays one or more packets containing
>both calls, that station will add a short signal report in
>their text field. Reports will be `Snn' with nn being the
>total number of packets received.
>
>W0RPK>WB4APR: (no text) 00-30 seconds
>
>WB4APR>W0RPK:S10 30-60 seconds
>
>3) When either station displays one or more packets containing
>their signal report, that station will add `R' in their text
>field indicating receipt of their signal report.
>
>W0RPK>WB4APR:S3 00-30 seconds
>
>WB4APR>W0RPK:S25R 30-60 seconds
>
>4) When either station displays one or more packets containing
>acknowledgment of their signal report, they will add 73 in
>their text field indicating receipt of the acknowledgment.
>
>W0RPK>WB4APR:S27R 00-30 seconds
>
>WB4APR>W0RPK:S65R73 30-60 seconds
>
>5) Both stations must display calls, signal reports and
>acknowledgments before the QSO is complete.
>
>W0RPK>WB4APR:S32R73 00-30 seconds
>
>WB4APR>W0RPK:S72R73 30-60 seconds
>
>Each station should transmit as many UI packets as possible in
>it's assigned 30-second interval. W0RPK will be using a transmit
>controller running a simple program to save wear on the <ENTER>
>key (and operators).
>
>For further information:
>
>Ralph Wallio, W0RPK 515-961-0383
>Middle River Valley Radio Observatory W0RPK @ W0AK.IA
>1250 Highway G24 wallio@dsmnet.com
>Indianola, Iowa 50125 Monitoring 3.818MHz and
>7.258MHz during the test

Bob Baltz *
Chesapeake Region Sales *
Ph:(410) 987- 8777 *
Fax: (410) 987-4489 *
E-mail bob.baltz@ustc.vlsi.com *

181. Re: [APRSSIG:2747] APRS For Newton ?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 11 Aug 1995 12:31:10 -0500
To: aprssig@tapr.org
Cc: ford.brian@bis.bls.com
Message-ID: <v01520d00ac5142f77fb9@[199.1.11.115]>
Rendered body type: text/plain

> With the prices of the Newton "Classic" down around \$150 has anyone
> thought about (or done) an APRS Port to Newton?
> Thanks
> BF
> KC4LYS
> ford.brian@bis.bls.com

There has been some talk in other news groups - here is one:

From: rtm@newton.apple.com (Bob Martin N6MZV)
Newsgroups: sci.geo.satellite-nav
Subject: Re: G45 with Newton
Date: Thu, 3 Aug 1995 21:09:47 GMT
Organization: Apple Computer
Message-ID: <rtm-0308951409470001@17.201.246.129>
References: <3v5j2i\$5jn@galaxy.ee.rochester.edu>

In article <3v5j2i\$5jn@galaxy.ee.rochester.edu>,
neale@galaxy.ee.rochester.edu (Reg Neale) wrote:

> Someone in this newsgroup mentioned using their Garmin 45 with a
> Newton as a portable data-collection setup. I just bought a
> Newton and it is not obvious to me how to connect it to the 45.
> I already use MacGPS to connect it to my desktop Mac, but how
> do I hook it up to the Newton?
>

The canonical 3-wire mac connection works fine; I use to connect my GPS45 to my powerbook, and tried it on the newton (MP110) using Pocket Call version 1.0 from Ex Machina (800-238-4738). With this software, or some shareware comm software, you'll probably be set as far as the connection goes.

Here's the cable connection, as snipped from a previous post. Here in Silicon Gulch, the 8 pin mini din connectors are easy to find- Fry's has 'em. You should try Digi-Key for mail order.

If you get things hooked up and it doesn't fly, check for continuity between pins 8 (RX+) and 4 (GND) on the connector- you want pin 8 floating, or a bit above ground, to work with this setup.

That's the good news. The bad news is that the GPS45 jabbers quite a bit- I need to experiment to see if it will take the sort-of standard commands to turn off some of the messages and control the repeat rates on the ones I want to see (like \$GPRMC or \$GPGGA).

182. Re: [APRSSIG:2756] 2M Mscatt stats(1)

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Fri, 11 Aug 95 13:43:31 EDT
To: aprssig@tapr.org
Message-ID: <9508111743.AA08471@umed.med.miami.edu>
Rendered body type: text/plain

Bob...

One possible solution to the collision avoidance problems during meteor scatter ops would be to set FULLDUP ON, which causes the TNC to ignore the carrier detect output.

BTW, nothing heard here yet....

Steve, K04HD
sdimse@umed.med.miami.edu

183. 2M Mscatt TXDELAY question

From: Bob Hartman <n8mwz@alpha.wcoil.com>
Date: Fri, 11 Aug 1995 15:37:16 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSD.3.91.950811153011.6321A-100000@alpha.wcoil.com>
Rendered body type: text/plain

Anybody got any idea for the correct TXDELAY setting when running an amplifier? (Mirage B2516G) I've never ran an amp on packet before but figured for the meteor shower test, why not! 160 or so watts into a 15.8dB beam might improve my chances a little. Mirage has been bought by MFJ and while their technical people seemed nice, they had no idea of how

long it takes one of their amps to reach proper transmit configuration after it senses RF. Any ideas received would have to be better than my "wild guess". (I am also assuming that since the amp keys from sensing RF, that I would have to add the normal TXDELAY setting for the radio alone to the figure for the amp)

```
/////////  
// Bob Hartman, N8MWZ //  
// <n8mwz@amsat.org> //  
/////////
```

184. Re: [APRSSIG:2760] 2M Mscatt TXDELAY question

From: mark@tetherless.com (Mark Oppenheim)
Date: Fri, 11 Aug 1995 13:18:31 -0700
To: aprssig@tapr.org
Message-ID: <199508112018.NAA26789@gorgor.pa.tetherless.com>
Rendered body type: text/plain

At 02:50 PM 8/11/95 -0500, Bob Hartman wrote:

>Anybody got any idea for the correct TXDELAY setting when running an
>amplifier? (Mirage B2516G) (rest omitted)

Isn't there a hard keying line on that amp? As I recall, this should be an active low line, and the TNC PTT signal should be able to drive it just fine. The big problem with RF-keyed amplifiers on packet isn't necessarily the key up time (though, it can be a concern) but the "release" time.... if there's any type of time-constant in there (other than the time it takes for the relays to switch the amplifier out of line) then there's a chance you'll miss ACK packets.

As for a delay, I'd personally recommend 600 ms of TXD delay. I usually run 450 ms anyway, which is about optimum for the "real" 1200 baud world out there.

Mark
KD6KQ

185. Re: [APRSSIG:2759] Re: 2M Mscatt stats(1)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Aug 1995 17:03:01 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950811165851.5766A-100000@greatlakes>
Rendered body type: text/plain

On Fri, 11 Aug 1995, Steven S. Dimse wrote:

> One possible solution to the collision avoidance problems during meteor
> scatter ops would be to set FULLDUP ON, which causes the TNC to ignore
> the carrier detect output.

APR REPLY: YES, EVERYONE DO THIS!!! (but then dont forget later...)

WITH FULLup ON, then everyone in the same area will ALL transmit according to the APRS sked and the collision avoidance will not cause constant QRM as it is doing now!

186. Re: [APRSSIG:2760] 2M Mscatt TXDELAY question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Aug 1995 17:09:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950811170527.5766B-100000@greatlakes>
Rendered body type: text/plain

On Fri, 11 Aug 1995, Bob Hartman wrote:

> Anybody got any idea for the correct TXDELAY setting when running an
> amplifier? (Mirage B2516G) I've never ran an amp on packet before but
> figured for the meteor shower test, why not! 160 or so watts into a
> 15.8dB beam might improve my chances a little.

APR REPLY: SET TXD to 0 for MSCAT. Yes, the start up delay of the AMP and even the radio will cause the first packet to be lost, but you are sending 10 to 30 of the same packet at a time.

Although the TXD is only supposed to be applied to the first packet in a transmission, I am noticing that MANY TNC's seem to apply it to every packet! Just listen to the variety of MScat packets, even though all of them are being generated by the same APRS software. SO if your TNC is one of

those that is applying TXD to every UI packet, then setting TXD to 0 will cause your packets to be much shorter....(in a group)

187. Re: [APRSSIG:2741] APRS Meteor Shwr OOPS!

From: schiers@ibm.net (hasan schiers)
Date: Fri, 11 Aug 95 23:53:49 EDT
To: aprssig@tapr.org
Message-ID: <199508112352.XAA15842@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Thu, 10 Aug 1995 20:36:50 -0500 you wrote:

>OK, Im finally set up at 0100z Thurs nite:
>
>1) W3ADO-2: 400 watts on 2m into 18 db gain dish pointed from MD over
> Charleston to Tampa with a 10 degree beamwidth.
>2) WB4APR-6: 10 watts (yuk!) on 6m pointed 286 deg from MD towards Iowa
>3) WB4APR-2: 100 W on 2m pointed 286 deg from MD towards Iowa
>

I am in Ames, IA, EN31fx, will be pointed at 90 degrees throughout the test with 200w to a 12el k1fo @ 77' with mast mounted gasfet. I started xmitting at 2330 utc and will continue for duration. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

188. APRSSIG: GPS45 Antenna Extension Cable, Radio Shack

From: ADAMS_CRAIG@Tandem.COM
Date: 11 Aug 95 11:30:00 -0700
To: aprssig@tapr.org
Message-ID: <199508111656.AA1849@comm.tandem.com>
Rendered body type: text/plain

Tandem-QM Gateway: Version K4.5
T0: APRS SIG [smtpgate@comm(aprssig@tapr.org)]

A few days ago, someone posted an idea on a "Radio Shack Cellular Extension" cable to move the GPS45 antenna away from the GPS unit.

After causing the local RS attendant much grief, we figured out that it is NOT a "Radio Shack Cellular Extension" cable but a "Dual Suction-Cup BNC Antenna Mount" RS pn 20-022.

Works great ! Adding a 90 ell BNC at the receiver end helps: "UG-306 Right-Angle BNC Adapter", RS pn 278-116b.

Hope this is useful to folks like me that use the GPS45 while mobile. The ant at the very front of the windscreen helps sat receiving a lot.

189. 6M Packet Radio METSCAT Test, Report #2 11Aug95 23:59Z

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>
Date: Fri, 11 Aug 1995 19:35:04 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950811193504.6011@dsm1.dsmnet.com>
Rendered body type: text/plain

W0RPK 6M Packet Radio METSCAT Test - 1995 Perseids
Test Report #2, 11Aug95 2359UTC

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions of 100+ packets will occur during the first half of each minute using standard 1200BPS AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).

W0RPK beacon transmissions continued for the remainder of 11Aug95 UTC. At 24 of 96-hours, all station control, logging and RF functions are AOK. During 12:00-23:59Z, a beacon reception report was received from Jeff, N4TRY in EM60nx (812-miles), no packets were copied from other stations, and the beacon packet count is now 159,745. The W0RPK antenna was redirected toward N4TRY at 19:25Z (150d). Beacon transmissions continue.

Test log:

11Aug95
12:01 W0RPK beacon system at s/n 77061
15:58 N4TRY rcvd W0RPK beacons (2)
23:59 W0RPK beacon system at s/n 159745

Ralph Wallio, W0RPK
Middle River Valley Radio Observatory
1250 Highway G24
Indianola, Iowa 50125

515-961-0383
W0RPK @ W0AK.IA
wallio@dsminet.com
Monitoring 3.818MHz and
7.258MHz during the test

190. MScat SUMMARY How-TO

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Aug 1995 20:35:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950811200244.6395B-100000@greatlakes>
Rendered body type: text/plain

The problem of the TNC's doing collision avoidance and therefore screwing up the APRS packet timing is SIGNIFICANT. I just posted upgrade files from 72a and 72c to APRS72D. Here are options for avoiding the problem:

- APRS72D.exe - Solves problem. MSCAT mode sets TNC FULLdup ON.
Also turns FADE off so you can see overnight packets
Also CONTROLS-XMT now works to toggle XMT on and off
Also now dual-port TNC's showing /x port numbers will properly display Beam Heading and MScat power
- APRS72C.exe - You must use O-C-T to set your TNC FULLdup ON. KAMS must also set MAXUSERS to 0/1 or 1/0 for this to work.
Also accepts 0 length BText in MScat packets
Also has MScat SEND command for valid 2-way on 6 m.
- APRS72B.exe - Same as C. You must set TNC FULLdup ON
Also added CONTROLS-FILTER-DIRECT command to MScat mode so that you capture ONLY DIRECT packets, (not digipeated)
- APRS72A.exe - Same as C. YOU must set TNC FULL dup on. I dont remember whats in A, nor whether it had any MScat modes
- APRS72 .exe - Same as C. You must set TNC FULdup ON.
First version with MScat mode.
- APRSxx .exe - For all older versions, there is no MScat mode, so simply set the following filters to collect MScat packets:
CONTROLS-FILTERS-OTHER
Then look at the D-LIST to see if you collect any DX packets DIRECT. If the direct DX packet has a gridsq in the TO adress, use the OPS-FIND-[gdsq to see where that guy is...

If everyone in your area does NOT have FULL dup ON, then you will hear multiple QRM packets carrying over beyond your 15 second window and those packets are BLOCKING your ability to hear any DX MScat packets! If for some reason a station is out of sync, have him QUIT MScat mode! He can still capture MScat packets by setting the filters above. (Plus set CONTROLS-FILTERS-DIRECT to on and FADE off.

If your local area straddles either 39 deg latitude or 95 deg longitude, then you will hear stations in two of the 15 second quadrants. You may want to move your QTH into the other area in order to have your packets coincide with the majority of your neighbors.

The Naval Academy 40 foot dish is pointed to Atlanta for Friday night thru Saturday day. Then Saturday night goes to Chicago thru Sunday day. Who wants it Sunday night? and Monday night?

191. Re: [APRSSIG:2747] APRS For Newton ?

From: rwf <rwf@mindspring.com>
Date: Fri, 11 Aug 1995 21:55:17 -0400
To: aprssig@tapr.org
Message-ID: <199508120155.VAA03430@dylan.mindspring.com>
Rendered body type: text/plain

At 08:24 AM 8/11/95 -0500, you wrote:
> With the prices of the Newton "Classic" down around \$150 has anyone
> thought about (or done) an APRS Port to Newton?
> Thanks

> BF
> KC4LYS
> ford.brian@bis.bls.com
>

I was about to ask the same question. A friend has APRS, but no laptop. He does have a Newton.

Interesting concept

>

192. MScat WARNING!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 12 Aug 1995 01:10:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950812010459.6706A-100000@greatlakes>
Rendered body type: text/plain

Everything was going fine. Three stns running at work, and one at home. Going to bed about midnight but noticed erie silence. (I always like to leave the speaker on)... All MScatt stations had crashed!

Seems there was a bad packet being transmitted by someone. Ill tell you what it was later. In the mean time, SO THAT YOU DONT LOOSE A POSSIBLE DX PACKET>>>>

LEAVE APRS ON THE P-LIST!

If you crash, then at least you can see what you had.
Remember, D-list doesnt REFRESH in real time, and L-list in MScat mode will only possibly re-fresh on 1st packet from a station...
Now, about this 1 hour round trip back home..

193. MINAPRS ?

From: "BRIAN FORD"
<BRIAN.FORD%IMSGEN01%CCGATE%BISVD1%MR@BISVG1.BIS.BLS.COM>
Date: 11 Aug 95 23:23:00 EST
To: "aprssig" <aprssig@tapr.org>
Message-ID: <"62412021805991/1881910@BISVD1"@BISVG1.BIS.BLS.COM>
Rendered body type: text/plain

I have an extra IBM Clamshell (yep it's old). The upside is that it gets used twice a year for public service events (Atlanta Marathon and Peachtree Road Race), so it can be dedicated to APRS. The problem is that it has 512 K total memory. Anyone know what the word is on MINAPRS (I want to put this in the car and use GPS). Thanks in advance
BF
KC4LYS
Ford.Brian@bis.bls.com

194. Re: [APRSSIG:2770] MINAPRS ?

From: Bob Hartman <n8mwz@alpha.wcoil.com>
Date: Sat, 12 Aug 1995 04:32:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSD.3.91.950812042845.12075A-100000@alpha.wcoil.com>
Rendered body type: text/plain

On Sat, 12 Aug 1995 BRIAN FORD@tapr.org wrote:

> I have an extra IBM Clamshell (yep it's old). The upside is that it
> gets used twice a year for public service events (Atlanta Marathon and
> Peachtree Road Race), so it can be dedicated to APRS. The problem is
> that it has 512 K total memory. Anyone know what the word is on
> MINAPRS (I want to put this in the car and use GPS). Thanks in advance

Just in case you didn't know, the older version 6.8 will run fine in 512K according to a friend that has to use it. If you get a response via private Email as to an FTP site for the minimized version, I would appreciate it if you could also forward it to me.

73

Bob Hartman N8MWZ
<n8mwz@amsat.org>

195. 2M meteor scatter contact report

From: daveh@moose.erie.net (David G. Henderson)
Date: Sat, 12 Aug 1995 07:51:20 -0300
To: aprssig@tapr.org
Cc: 74232.627@compuserve.com, bruninga@greatlakes.nadn.navy.mil
Message-ID: <m0shF5G-000fviC@moose.erie.net>
Rendered body type: text/plain

N3HPR from EN92wb reports:

111403 (local time) N9GJJ>EN43ix 4358.7N/09117.0W beaming 90 degrees with 40 watts

Map-Plot-Range shows this to be 577 miles on a heading of 99 degrees from N9GJJ near LaCross, WI to N3HPR at Erie, PA

N9GJJ is Eugene R. Tetzlaff in Holmen, WI

Congratulatory e-mails can be sent to Tom, N3HPR at 74232.627@compuserve.com.

Tom plans to send Eugene a QSL.

Congrats guys. Is this the first reported contact?????

Dave, N3EOY

196. 2M meteor scatter contact report

From: ETHOLMEN@aol.com
Date: Sat, 12 Aug 1995 08:52:06 -0400
To: aprssig@tapr.org
Message-ID: <950812085203_53140698@aol.com>
Rendered body type: text/plain

N9GJJ from EN43ix reports: (local Time)

WBSNLJ 112323 >EN90we: 4011.6 N/08007.7 W?270/090
W8RQQ 112323 >EN90dt: 4048.9 N/08141.1 W?330/090
N3EOY 120102 >EN91vw: 4156.0 N/08011.9 W?250/160
K1HTV 120139 >FM18ox: 3858.4 N/07646.5 W?/270/250
WA1YKN 120212 >FN41tp: 4139.1 N/07022.4 W?270/250

These are the contacts I have as of 08-12-95 at 0800 local time. I was beaming 90 degrees east running 40 watts into a Cuscraft 22 XB Oscar Boomer at 30 feet with RH polarization. Running a Kenwood TM-255A and a AEA PK-96 TNC. No receive preamp.

Gene, N9GJJ

197. Re: [APRSSIG:2770] MINAPRS ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 12 Aug 1995 09:15:47 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950812091333.6993A-100000@greatlakes>
Rendered body type: text/plain

On Sat, 12 Aug 1995 BRIAN FORD@tapr.org wrote:

> Peachtree Road Race), so it can be dedicated to APRS. The problem is
> that it has 512 K total memory. Anyone know what the word is on
> MINAPRS (I want to put this in the car and use GPS). Thanks in advance

APR REPLY: I need to do a mini again. Maybe in a few weeks...

198. 6M Packet METSCAT Test, 12Aug 12:00Z report

From: Ralph Wallio <WALLIO@dsl1.dsmnet.com>
Date: Sat, 12 Aug 1995 8:55:54 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950812085554.5fcd@dsl1.dsmnet.com>
Rendered body type: text/plain

W0RPK 6M Packet Radio METSCAT Test - 1995 Perseids
Test Report #3, 11Aug95 1200UTC

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions of 100+ packets will occur during the first half of each minute using standard 1200BPS AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets

from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).

At 36 of 96-hours, all station control, logging and RF functions are AOK. During 00:00-12:00Z, no beacon reception reports were received, no packets were copied from other stations, and the beacon packet count is now 242,430. David Gaytko, WD4KPD in FM15ml, reports he has not displayed any packets during several hours of monitoring. The W0RPK antenna was redirected toward WD4KPD at 13:10Z (110d). Beacon transmissions continue. (A brief preliminary test analysis will be included in the 48-hour report.)

Test log:

12Aug95
00:00 W0RPK beacon system at s/n 159860
12:00 W0RPK beacon system at s/n 242430

Ralph Wallio, W0RPK Middle River Valley Radio Observatory 1250 Highway G24 Indianola, Iowa 50125	515-961-0383 W0RPK @ W0AK.IA wallio@dsmlnet.com Monitoring 3.818MHz and 7.258MHz during the test
---	--

199. Re: [APRSSIG:2773] 2M meteor scatter contact report

From: daveh@moose.erie.net (David G. Henderson)
Date: Sat, 12 Aug 1995 10:19:44 -0300
To: aprssig@tapr.org
Cc: 74232.627@compuserve.com, asz@aol.com
Message-ID: <m0shH0r-000fvuC@moose.erie.net>
Rendered body type: text/plain

>N9GJJ from EN43ix reports: (local Time)
>N3EOY 120102 >EN91vw: 4156.0 N/08011.9 W?250/160
>These are the contacts I have as of 08-12-95 at 0800 local time. I was
>beaming 90 degrees east running 40 watts into a Cusgcrafft 22 XB Oscar Boomer
>at 30 feet with RH polarization. Running a Kenwood TM-255A and a AEA PK-96
>TNC. No receive preamp.

Thanks for the contact report, Gene. Running running a Cushcraft Boomer here at 130 feet, with Kenwood 731A driving a 170 watt amp. This combination produces over 10,000 watts ERP. I was beaming at 250 degrees (presumably St. Louis).

For your info, Gene, Tom, N3HPR who received your meteor packet is just passively listening (XMITOK off, Bob) using a Kenwood rig and a Hustler G6 omni antenna.

73

Dave, N3EOY

200. MetScat Packets Copied 08/11/95!

From: schiers@ibm.net (hasan schiers)
Date: Sat, 12 Aug 95 14:23:17 EDT
To: aprssig@tapr.org
Message-ID: <199508121422.OAA17103@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Thu, 10 Aug 1995 20:36:50 -0500 you wrote:

>OK, Im finally set up at 0100z Thurs nite:
>
>1) W3ADO-2: 400 watts on 2m into 18 db gain dish pointed from MD over
>Charleston to Tampa with a 10 degree beamwidth.
>3) WB4APR-2: 100 W on 2m pointed 286 deg from MD towards Iowa
>
I am in Ames, IA, EN31fx

Overnight here is what I have on my screen:

0457 utc	WB5NLJ	EN90WE	Castle Shannon, PA
0542 utc	WB4APR-2	FM19QD	Glenn Burnie, MD
0802 utc	W3ADO-2	FM18SX	Annapolis, MD

0956 utc WA1YKN FN41TP Osterville, MA
1213 utc K1HTV FM180X Glenn Dale, MD

I have no idea if anyone heard me, but I will leave the rig on and beam pointed the same way. (East). 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

201. 2M Mscatt stats(2)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 12 Aug 1995 09:47:46 -0400 (EDT)
To: aprssig@tapr.org
Cc: Prof Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.950812092616.6993E-100000@greatlakes>
Rendered body type: text/plain

Success is trickling in! Here is the status nmatrix for 2m APRS DX:

TRANSMITTING STNS:	W	W			W
	A	B	W	N	K
	1	5	8	3	1
	Y	N	R	E	H
RECEPTION REPTS:	K	L	Q	O	T
CALL GRID ST	N	J	Q	Y	V

WB4APR FM19dx MD	33			@110500z	373 mi	tropo?
N9GJJ EN43ix WI	1			@120423z	634 mi	
		1		@120423z	526 mi	
			1	@120602z	586 mi	
				1	@120639z	823 mi
				1	@120712z	1071 mi

APR also saw numerous consistent packets all night from stns 120 to 180 miles north along the coast in NJ and NY, so assume tropo was indeed present.

Satnight at 0000z the 30,000 watts ERP from the Academy dish W3ADO will be moved to point 290 deg from Maryland towards CHICAGO.

YOU MUST use O-C-T and set your TNC to FULL DUP ON to disable your TNC collision avoidance DCD circuit so that it transmits when APRS tells it to, and not after the channel goes clear!

Check your D-LIST in the morning and see which stations you heard direct. Center the screen on your station and use the MAPS-PLOTS-RANGE to measure the range to any other stations heard direct. If they are further than 300 miles, then report it.

You may use the MAPS-PLOTS-GRID command to see the grid square of the cursor location, and use OPS-FIND-[grid to find the location of any grid report.

202. Re: [APRSSIG:2778] 2M Mscatt stats(2)

From: rwf <rwf@mindspring.com>
Date: Sat, 12 Aug 1995 11:17:22 -0400
To: aprssig@tapr.org
Message-ID: <199508121517.LAA15235@dylan.mindspring.com>
Rendered body type: text/plain

No 2M packets heard in Atlanta yet. All beacons, digi's, etc are off (Except for lots of stuff out of North East Alabama and 1 in N GA)
Bill?????

I am the only station I hear sending metscat tests

Ralph Fowler
N4NEQ

203. APRS & DOSEMU

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Date: Sat, 12 Aug 1995 10:43:04 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508121543.KAA07632@crasher2.ttgciitn.com>

Rendered body type: text/plain

I finally broke down, installed dosemu on my Linux box, and installed APRS.
Hey, DOS runs better under Linux than it does without ;-)

Anyway, it starts up nicely, except it locks up after it starts loading
USA.MAP. The com port stuff, etc works flawlessly, amazingly enough.

This is with APRS7B, which is the latest that looks halfway reliable :-)

root 7609 91.2 24.8 1532 1736 v02 R 10:39 2:25 dos

Dosemu is taking up most of my measly 486dx33, anyway, so maybe it's very slow
but working.

Any hints?

--

```
=====
=== Ryan Tucker, your local TTGCITN Communications Blametaker (tm) ===
=== rtucker@ttgci.tn.com http://www.netins.net/showcase/rtucker ===
=====
```

204. Re: [APRSSIG:2778] 2M Mscatt stats(2)

From: BenWS5R@aol.com
Date: Sat, 12 Aug 1995 13:38:58 -0400
To: aprssig@tapr.org
Message-ID: <950812133856_53246809@aol.com>
Rendered body type: text/plain

IS anyone pointed west - southwest the way I see it all are pointing east? I
have been running on 2m pointing east/NE since friday except when running
ssb, have had a few bad packets come thru but nothing readable. Will contue
to run easterly till Monday. Was going to run on 6m, but antenna won't hacck
it that high up in the band. 73 WS5R DM95cf.

205. Re: [APRSSIG:2760] 2M Mscatt TXDELAY question

From: WA1YKN@aol.com
Date: Sat, 12 Aug 1995 13:49:03 -0400
To: aprssig@tapr.org
Message-ID: <950812134901_72782992@aol.com>
Rendered body type: text/plain

Bob et all,

Regarding Mirage amplifiers on packet, I have several, I am presently
using a G-3030 at 250 watts driven with a DR1200T for this Meteor event and
run normal parameters. The Mirage amplifiers seem to switch quite fast with
the switch in the FM position. I also have a B-1016 that works with normal
parameters. Over the years I have run 5 Mirage amplifiers with packet, and
have never had a problem with switching times. A TXD equivlent to 350 ms (35
on a KAM or KPC3) works fine...

73, Mitch, WA1YKN@AOL.COM...

206. Re: [APRSSIG:2760] 2M Mscatt TXDELAY question

From: WA1YKN@aol.com
Date: Sat, 12 Aug 1995 13:58:52 -0400
To: aprssig@tapr.org
Message-ID: <950812135849_72788323@aol.com>
Rendered body type: text/plain

Bob et all,

Regarding Mirage amplifiers on packet, I have several, I am presently
using a G-3030 at 250 watts driven with a DR1200T for this Meteor event and
run normal parameters. The Mirage amplifiers seem to switch quite fast with
the switch in the FM position. I also have a B-1016 that works with normal
parameters. Over the years I have run 5 Mirage amplifiers with packet, and
have never had a problem with switching times. A TXD equivlent to 350 ms (35
on a KAM or KPC3) works fine...

73, Mitch, WA1YKN@AOL.COM...

207. Re:MeteorScat 2 Mtr tests...

From: WA1YKN@aol.com
Date: Sat, 12 Aug 1995 13:59:17 -0400
To: aprssig@tapr.org

Message-ID: <950812135915_72788518@aol.com>
Rendered body type: text/plain

Greetings frm the heart of Cape Cod...

WA1YKN is on the air beaconing Meteor Scatter signals during the first 15 second quarter of the minute beaming west. The station consists of a KAM controlled by APRS72c driving a DR1200T into a Mirage G-3030 Amp for 250 watts into a pair of 10 element beams stacked 110ft ASL (Above Sea Level) average terrain is 44 ft ASL.
The DR1200T is receiving thru the GasFet preamp in the Mirage Amplifier...

I thank the two stations reporting hearing this station in the midwest for reporting same, but as of this time, no signals beyond normal tropo range have been recvd at WA1YKN, I suspect due to heavy local APRS activity along LI sound...

I plan to opperate the station in this mode for the duration of the tests thru monday evening...

TNX, 73, Mitch, WA1YKN@AOL.COM

208. Additional Metscat reports

From: daveh@moose.erie.net (David G. Henderson)
Date: Sat, 12 Aug 1995 16:31:21 -0300
To: aprssig@tapr.org
Cc: bruninga@greatlakes.nadn.navy.mil, 74232.627@compuserve.com, asz@aol.com
Message-ID: <m0shNCb-000fykC@moose.erie.net>
Rendered body type: text/plain

Received at N3EOY at EN91vw beaming 180 degrees:

121516 (local) N2UNH>FN20og beaming 310 degrees at 160 watts

M-P-R says 290 degrees at 306 miles

121547 (local) KB4TCU>EM81mk beaming 10 degree at 160 watts

M-P-R says 12 degrees at 739 miles

73

Dave, N3EOY

209. Re: [APRSSIG:2778] 2M Mscatt stats(2)

From: schiers@ibm.net (hasan schiers)
Date: Sat, 12 Aug 95 23:12:04 EDT
To: aprssig@tapr.org
Message-ID: <199508122314.XAA12046@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

Here is my heard list so far, I was also heard and called by land line by N3QWE in FN10LW, Mifflinburg, PA

Date: 08/12/95

Time (utc)	Call	State	Grid	Heard	Count
0400	wb5nlj	PA	en90we	1	
0500	wb4apr-2	MD	fm19qd		2
0800	w3ado-2	MD	fm18sx	1	
	k1htv	MD	fm18ox		5
0900	k1htv	MD	fm18ox		9
	walykn	MA	fn41tp	1	
1000	k1htv	MD	fm18ox		9
1100	k1htv	MD	fm18ox		5
1200	k1htv	MD	fm18ox		1
1800	walykn	MA	fm41tp	1	
	n3kmj	PA	en90xa	1	
1900	n3kmj	PA	en90xa	9	

73,

hasan schiers, n0an@n0an.ia.usa.na grid: en31fx

210. 6M Packet METSCAT Test, 12Aug95 23:59Z Report

From: Ralph Wallio <WALLIO@dsl1.dsmnet.com>
Date: Sat, 12 Aug 1995 19:26:21 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950812192621.655e@dsl1.dsmnet.com>
Rendered body type: text/plain

W0RPK 6M Packet Radio METSCAT Test - 1995 Perseids
Test Report #4, 12Aug95 23:59UTC

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions of 100+ packets will occur during the first half of each minute using standard 1200BPS AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).

At 48 of 96-hours, all station control, logging and RF functions are AOK. During 12:00-23:59Z, numerous beacon packets were received from K0BI in EN72bm (400-miles). Many of these packets were in long groups, too long for meteor bursts (see log below). Es propagation is suspected. (Hmmm ... this test is turning out to be a pretty good Es sounding mechanism ...) The W0RPK beacon packet count is now 325,230. David Gaytko, WD4KPD in FM15ml (986-miles), reports he has not displayed any packets during several hours of monitoring. The W0RPK antenna was redirected toward WD4KPD (110-degrees) 13:10-15:19Z. Since 15:19Z, the W0RPK antenna has been pointed toward K0BI in EN72bm (75-degrees). Beacon transmissions continue.

Although we are working with a very small sample, positive and negative beacon reception reports are matching expected test performance. The following table gives optimum radiation angles and antenna heights for various meteor scatter paths:

Path (miles)	Optimum Elev (degrees)	Optimum Ant Height (Ft)	Note:
-----	-----	-----	
200	32	10	Performance is further optimized by tilting the antenna 15-25 degrees which greatly reduces vertical pattern nulls due to ground reflections.
300	20	15	
400	15	20	
500	12	25	
600	8	34	
700	7	39	
800	5	54	
900	4	68	

At W0RPK the antenna height is 14-feet (3/4-wavelength) with 0-degrees elevation. Beacon reception reports and 2-way QSO success match the table prediction. We have numerous successful QSOs and mutual beacon receptions with K0BI in EN72bm at 400-miles, a negative report from WD4KPD in FM15ml at 985-miles, a report of only two beacon packets from N4TRY in EM60nx at 815-miles. A QSO with N3MNT in FM19sa at 915-miles and beacon reception by W3ADO in FM18sx at 915-miles occurred during a brief opening when scores of packets were received at both ends.

This predicted and actual performance indicates a practical limit to the W0RPK meteor scatter path distance. We have, therefore, made arrangements to collect short path statistics with K0BI. The beacon system will continue for another 48-hours. The W0RPK antenna is now at 75-degrees to favor the W0RPK-K0BI path.

Test log:

12Aug95

12:00 W0RPK beacon system at s/n 242545
13:10 W0RPK antenna redirected to 110-degrees
14:43 W0RPK rcvd (1) K0BI 10W beacon
15:19 W0RPK antenna redirected to 75-degrees
15:23 W0RPK rcvd (5) K0BI 10W beacons
15:41 W0RPK rcvd (1) K0BI beacon
15:49 W0RPK rcvd (1) K0BI beacon
16:02 W0RPK rcvd (11) K0BI beacons
16:05 W0RPK rcvd (15+) K0BI beacons | TNC->printer flow control limited
16:08 W0RPK rcvd (15+) K0BI beacons | consecutive packet log entries
16:11 W0RPK rcvd (34) K0BI beacons | Flow control fixed
16:12 W0RPK rcvd (36) K0BI beacons
16:13 W0RPK rcvd (1) K0BI beacon
16:14 W0RPK rcvd (20) K0BI beacons
16:18 W0RPK rcvd (17) K0BI beacons

16:23 W0RPK rcvd (51) K0BI beacons
 16:24 W0RPK rcvd (36) K0BI beacons
 16:34 W0RPK rcvd (1) K0BI beacon
 16:49 W0RPK rcvd (15) K0BI beacons
 16:50 W0RPK rcvd (77) K0BI beacons
 16:51 W0RPK rcvd (31) K0BI beacons
 16:53 W0RPK rcvd (47) K0BI beacons
 16:54 W0RPK rcvd (41) K0BI beacons
 16:55 W0RPK rcvd (49) K0BI beacons
 17:12 W0RPK rcvd (1) 10W K0BI beacon
 17:18 W0RPK rcvd (4) 10W K0BI beacons
 17:26 W0RPK rcvd (1) 10W K0BI beacon
 18:20 W0RPK rcvd (74) 10W K0BI beacons
 18:33 W0RPK rcvd (6) 10W K0BI beacons
 18:34 W0RPK rcvd (86) 10W K0BI beacons
 18:35 W0RPK rcvd (31) 10W K0BI beacons
 18:36 W0RPK rcvd (2) 10W K0BI beacons
 18:44 W0RPK rcvd (2) 10W K0BI beacons
 18:50 W0RPK rcvd (1) 10W K0BI beacon
 18:54 W0RPK rcvd (55) 10W K0BI beacons
 19:04 W0RPK rcvd (1) 10W K0BI beacon
 22:06 W0RPK rcvd (1) K0BI beacon
 22:10 W0RPK rcvd (9) K0BI beacons
 22:16 W0RPK rcvd (1) K0BI beacon
 22:20 W0RPK rcvd (1) K0BI beacon
 22:43 W0RPK rcvd (1) K0BI APRS beacon
 22:45 W0RPK rcvd (4) K0BI APRS beacons
 23:00 W0RPK rcvd (5) K0BI APRS beacons
 23:02 W0RPK rcvd (1) K0BI APRS beacon
 23:03 W0RPK rcvd (66) K0BI APRS beacons
 23:32 W0RPK rcvd (64) K0BI APRS beacons
 23:39 W0RPK rcvd (1) K0BI APRS beacon
 23:45 W0RPK rcvd (6) K0BI APRS beacons
 23:47 W0RPK rcvd (1) K0BI APRS beacon
 23:59 W0RPK beacon system at s/n 325230

Ralph Wallio, W0RPK
 Middle River Valley Radio Observatory
 1250 Highway G24
 Indianola, Iowa 50125

515-961-0383
 W0RPK @ W0AK.IA
 wallio@dsmanet.com
 Monitoring 3.818MHz and
 7.258MHz during the test

211. MScat LESSONS!

From: Bob Bruninga <bruninga@nadn.navy.mil>
 Date: Sat, 12 Aug 1995 21:39:27 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950812213055.8028G@greatlakes>
 Rendered body type: text/plain

1) Please report MScat packets received in the format shown at the bottom of the 2 meter status report message that I just sent out. It has been hard gathering the information from the varioius reports filtering in.

2) APRS sechedules your transmissions based on the quadrant you are in. THINK about what this does to your intended receipient. I am only 1 mile south of 39 degrees, so I am in the 2nd quadrant, transmitting at 15 to 30 secs. If I am pointing my beam SOUTH to hit FLORIDA, then NOBODY in florida is going to hear me, since they are in the same quadrant and transmitting at the same time! I have two solutions. a) skew my clock, or b) move my QTH 1 mile north to be in the other quadrant.

In future versions of APRS, I will give you the option of selecting which quadrant you want to TRANSMIT in if not the default.

Living on the 39th parallel, we are having a devil of a time, since we hear locals in 2 quadrants...

Im glad this is working. I have only heard 1 burst on 6m and was starting to get depressed at all the wasted effort. But now I see that our poor receipts here are probably due to our own QRM...

212. 6m MScatt scorecard (5)

From: Bob Bruninga <bruninga@nadn.navy.mil>
 Date: Sat, 12 Aug 1995 21:30:43 -0400 (EDT)
 To: aprssig@tapr.org
 Cc: Prof Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
 Message-ID: <Pine.SUN.3.91.950811135122.2749B-100000@greatlakes>
 Rendered body type: text/plain

This is a matrix of all known SIX METER stations for the Persieds Shower.
W0RPK xmts for the 1st 30 secs of each minute. Others are assumed to
be using the automatic 15 sec APRS scheduling:

```

TRANSMITTING STATION:  W      N
                       0      K  3
                       R      0  M
REPORTING STATIONS    P      B  N      zulu
CALL  GRID  AREA      K  I  T  DDhmm Miles COMMENTS
-----
W0RPK      IOWA      .  *11 *30      2-Way
K0BI  EN72bm MI      *8      2-Way
N3MNT  FM19sa MD      1      100200 900
                       *99      E opening.
                       1      110224 900
WB4APR FM19sx MD      +99      E skip. (10w only rcv)
                       15      121806 900 284572 to 284616

VA3MW      Ontario
W5SR  DM95cf Amarillo      Hi SWR. QRT
KN6PE      CA Bay
KD6SQ      Calif
W0LCP  EN35jk Mnpls Mn
W9DHK  DM13ao S. Calif
N7QVU      Arizona      50 W

```

For now, report successes only. If you are on 6m and not on this list,
please let us know.

If you are in the Neast or Seast using APRS, then you will need to skew
your PC clock by 30 secs if you want to try to work RPK.

213. 2M Mscatt stats (3)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 12 Aug 1995 21:23:52 -0400 (EDT)
To: aprsig@tapr.org
Cc: Prof Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.950812195714.8028E-100000@greatlakes>
Rendered body type: text/plain

Success is ROLLING in! Here is the status nmatrix for 2m APRS DX:

```

TRANSMITTING STNS:  W W      W K      K W
                   A B W N K A E N B B W N      N
                   1 5 8 3 1 1 4 2 4 4 3 3 N 9
                   Y N R E H Y E U T A A K 0 G
RECEPTION REPTS:   K L Q O T K E N C P D M A J      zulu
CALL  GRID  ST      N J Q Y V N R H U R O J N J  DDhmm Miles
-----
WB4APR FM19dx MD      33      .      .      110500 373
N9GJJ  EN43ix WI      1      .      .      120423 634
      beaming East      1      .      .      120423 539
                       9      .      .      120602 586
                       3      .      .      120639 820
                       . 5      .      120712 1075
                       . 6      .      121735 649
N3EOY  EN91vw beam 180      .      ?      .      121916 306
      beaming 180 w 170W at 130      ?      .      121947 739
N0AN      1      .      .      120400
                       .      2      .      120500
                       5      1      .      120800
                       9 1      .      120900
                       9      .      121000
                       5      .      121100
                       1      .      121200
                       . 1      . 1      121800
                       .      . 9      121900
K1HTV      .      .      1      120728
N3HPR  ????      .      ?      12????
N3QWE  FN10lw PA      .      ?      12????

```

WA1YKN FN41tp Nothing heard
N4QEA Atlanta Nothing heard
W5SR DM95cf Texas Nothing heard

Satnight at 0000z the 30,000 watts ERP from the Academy dish W3ADO
is now pointing 290 deg from Maryland towards CHICAGO.

YOU MUST use O-C-T and set your TNC FULLdup ON to disable your TNC
collision avoidance so that it transmits when APRS tells it to, and not

after the channel goes clear! (when other locals are listening!)

Check your D-LIST to verify that you heard direct; then Check # of pkts on HEARD log. HOME on your station and use the MAPS-PLOTS-RANGE to measure the range to DX stn. Report only if they are > than 300 mi.

Use the MAPS-PLOTS-GRID command to see the grid square of the cursor, and use OPS-FIND-[grid to find the location of any grid report.

PLEASE REPORT THE FOLLOWING ON ALL POSITS HEARD:

- 1) Your BEAM HEADING
- 2) CALL TIME(in UTC) GRID #pkts RANGE

214. Re: 2M Mscatt stats(3) N0AN

From: schiers@ibm.net (hasan schiers)
Date: Sun, 13 Aug 95 13:23:49 EDT
To: aprssig@tapr.org
Message-ID: <199508131327.NAA12144@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

Here is my heard list so far, I was also heard and called by land line by N3QWE in FN10LW, Mifflinburg, PA

Date: 08/12/95					
Time (utc)	Call	State	Grid	Heard	Count
0400	wb5nlj	PA	en90we	1	
0500	wb4apr-2	MD	fm19qd	2	
0800	w3ado-2	MD	fm18sx	1	
	k1htv	MD	fm18ox		5
0900	k1htv	MD	fm18ox		9
	walykn	MA	fn41tp		1
1000	k1htv	MD	fm18ox		9
1100	k1htv	MD	fm18ox		5
1200	k1htv	MD	fm18ox		1
1800	walykn	MA	fm41tp	1	
	n3kmj	PA	en90xa		1
1900	n3kmj	PA	en90xa	9	

Date: 08/13/95

0300	w3ado-2	MD	fm18sx	15	
0400	w3ado-2	MD	fm18sx	11	
0500	w3ado-2	MD	fm18sx	6	
0600	w3ado-2	MD	fm18sx	4	
0800	w3ado-2	MD	fm18sx	4	
	k1htv	MD	fm18ox		1
0900	w3ado-2	MD	fm18sx	18	
1000	w3ado-2	MD	fm18sx	29	
1100	w3ado-2	MD	fm18sx	1	

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

215. Re: [APRSSIG:2765] APRSSIG: GPS45 Antenna Extension Cable, Radio Shack

From: Jess Girard <girard@panix.com>
Date: Sun, 13 Aug 1995 09:49:31 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950813094728.4392A-100000@panix.com>
Rendered body type: text/plain

On Fri, 11 Aug 1995 ADAMS_CRAIG@Tandem.COM wrote:

> A few days ago, someone posted an idea on a "Radio Shack Cellular Extension"
> cable to move the GPS45 antenna away from the GPS unit.
>
> After causing the local RS attendant much grief, we figured out that it is NOT
> a "Radio Shack Cellular Extension" cable but a "Dual Suction-Cup BNC Antenna
> Mount" RS pn 20-022.
> Works great ! Adding a 90 ell BNC at the receiver end helps: "UG-306
> Right-Angle BNC Adapter", RS pn 278-116b.
>
> Hope this is useful to folks like me that use the GPS45 while mobile. The ant
> at the very front of the windscreen helps sat receiving a lot.

I suggest you contemplate moving the antenna entirely outside the


```

TRANSMITTING STNS:  W W W W N K K N K W W N N N N
                     A D B 8 3 1 E 2 B B 3 3 0 9 8
                     1 0 5 R E H 4 U 4 4 A K A G A
                     Y G N Q O T E N T A D M N J J   zulu
RECEPTION REPORTS:  K M L Q Y V E H C P O J   J D DDhhmm Miles
CALL  GRID  ST      N K J      R  U R
-----
WB4APR FM19dx MD    33      .      .      .      110500 373
N9GJJ  EN43ix WI    .    1      .      .      120423 634
      beaming East .    .    1      .      120423 539
      .            .    .    9      .      120602 586
      .            .    .    3      .      120639 820
      .            .    .    .      .      120712 1075
      .            .    .    6      .      121735 649
N3EOY  EN91vw 180 deg .    ?      .      121916 306
      at 130 feet   .    .    ?      .      121947 739
N0AN    .    1      .      .      120400
      .            .      .    2      120500
      .            .    5      1      120800
      1            .    9      .      120900
      .            .    9      .      121000
      .            .    5      .      121100
      .            .    1      .      121200
      1            .    .      .    1      121800
      .            .    .      .    9      121900
      .            .    .      15      130300
      .            .    .      11      130400
      .            .    .      6       130500
      .            .    .      4       130600
      .            1      4       130800
      .            .      18      130900
      .            .      29      131000
      .            .      1      131100
K1HTV  FM19  MD    .      .      .    1      120728
N3HPR  EN92wb .      .      .    1      111803 577 omni!
N3QWE  FN10lw PA .      .      .    ?      12????
WA1LOU ?????? .      .      .    1      120433 540
      .            .      .    4      121804 1078
      .            .      .    3      130323 1078
W3ADO  FM19sx MD    .    2      .      .      121800 965
      .    1      .      .      121900 965
      .    2      .      .      122000 965
      .    2      .      .      122100 965
      .    1      .      .      130400 965

WA1YKN FN41tp Nothing heard
N4QEA      Atlanta Nothing heard
W5SR  DM95cf Texas  Nothing heard

```

Notice the effect on N0AN when W3ADO dish pointed his way!
Dish has pointed at Florida, Atlanta, Chicago. It will stay on Chicago
tonight (Sunday) since I have to go home.

YOU MUST use O-C-T and set your TNC FULLdup ON to disable your TNC
collision avoidance so that it transmits when APRS tells it to, and not
after the channel goes clear! (when other locals are listening!)

Check your D-LIST to verify that you heard direct; then Check # of pkts
on HEARD log. HOME on your station and use the MAPS-PLOTS-RANGE
to measure the range to DX stn. Report only if they are > than 300 mi.

Use the MAPS-PLOTS-GRID command to see the grid square of the cursor, and
use OPS-FIND-[grid] to find the location of any grid report.

PLEASE REPORT THE FOLLOWING ON ALL POSITS HEARD:

- 1) Your BEAM HEADING
- 2) CALL TIME(in UTC) GRID #pkts RANGE

218. GPS receivers for sale

From: George.Henry@f668.n115.z1.fidonet.org (George Henry)
Date: 12 Aug 95 13:35:10 -0600
To: Aprssig@Tapr.Org
Message-ID: <056_9508131137@chigate.fidonet.org>
Rendered body type: text/plain

* Original Area: CHIHAM
* Original To : All (1:115/668)

I have 10 Motorola PVT-6 "black box" GPS receivers for sale.

These are perfect for APRS: RS-232 data output (no display), active antenna with cable, docs, new antenna mounting kit. You build your own data cable.... Rev. 8.3 firmware, all tested and ready to go.

These are more of the same units that we sold in the TAPR APRS-SIG a few months ago.

Same price: \$150 each, plus \$5 shipping in continental US

reply by e-mail to ka3hsw@amsat.org or Fido netmail to 1:115/668

These will go FAST!!!!

73 de KA3HSW

... Ah'm Bubba of Borg...ya'll prepare 't be 'simulated now, y'heah?

219. 6M Packet METSCAT Test, 13Aug 0000-1200Z report

From: Ralph Wallio <WALLIO@dsl1.dsmnet.com>
Date: Sun, 13 Aug 1995 13:28:07 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950813132807.67ca@dsl1.dsmnet.com>
Rendered body type: text/plain

W0RPK 6M Packet Radio METSCAT Test - 1995 Perseids
Test Report #5, 13Aug95 12:00UTC

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions of 100+ packets will occur during the first half of each minute using standard 1200BPS AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).

At 60 of 96-hours, all station control, logging and RF functions are AOK. During 00:00-12:00Z, we continued to receive numerous beacon packets from K0BI in EN72bm (400-miles). Again, many of these packets were in long groups, too long for meteor bursts (see log below). Es propagation continues to be suspected. No packets were received from other stations. The W0RPK beacon packet count is now 407,915. Testing with K0BI continues with the W0RPK antenna at 75-degrees. Beacon transmissions continue.

Test log:

13Aug95
0000 W0RPK beacon system at s/n 325345
0153 rcvd (1) K0BI APRS beacon
0154 rcvd (1) K0BI APRS beacon
0155 rcvd (1) K0BI APRS beacon
0158 rcvd (3) K0BI APRS beacons
0205 rcvd (2) K0BI APRS beacons
0207 rcvd (22) K0BI APRS beacons
0212 rcvd (1) K0BI APRS beacon
0217 rcvd (8) K0BI APRS beacons
0223 rcvd (2) K0BI APRS beacons
0225 rcvd (16) K0BI APRS beacons
0233 rcvd (3) K0BI APRS beacons
0331 rcvd (1) K0BI APRS beacon
0344 rcvd (1) K0BI APRS beacon
0410 rcvd (1) K0BI APRS beacon
0415 rcvd (13) K0BI APRS beacons
0433 rcvd (4) K0BI APRS beacons
0438 rcvd (2) K0BI APRS beacons
0455 rcvd (6) K0BI APRS beacons
0547 rcvd (1) K0BI APRS beacon
0553 rcvd (1) K0BI APRS beacon
0620 rcvd (48) K0BI APRS beacons
0648 rcvd (2) K0BI APRS beacons
0650 rcvd (2) K0BI APRS beacons
0652 rcvd (1) K0BI APRS beacon
0710 rcvd (3) K0BI APRS beacons
0716 rcvd (9) K0BI APRS beacons
0718 rcvd (21) K0BI APRS beacons
0947 rcvd (2) K0BI APRS beacons

0949 rcvd (1) KØBI APRS beacon
 0953 rcvd (1) KØBI APRS beacon
 0959 rcvd (1) KØBI APRS beacon
 1001 rcvd (2) KØBI APRS beacons
 1002 rcvd (9) KØBI APRS beacons
 1003 rcvd (55) KØBI APRS beacons
 1004 rcvd (55) KØBI APRS beacons
 1005 rcvd (1) KØBI APRS beacon
 1010 rcvd (7) KØBI APRS beacons
 1015 rcvd (2) KØBI APRS beacons
 1017 rcvd (2) KØBI APRS beacons
 1025 rcvd (1) KØBI APRS beacon
 1026 rcvd (1) KØBI APRS beacon
 1028 rcvd (39) KØBI APRS beacons
 1033 rcvd (1) KØBI APRS beacon
 1039 rcvd (84) KØBI APRS beacons
 1040 rcvd (14) KØBI APRS beacons
 1041 rcvd (130) KØBI APRS beacons
 1042 rcvd (136) KØBI APRS beacons
 1043 rcvd (20) KØBI APRS beacons
 1044 rcvd (1) KØBI APRS beacon
 1046 rcvd (2) KØBI APRS beacons
 1049 rcvd (45) KØBI APRS beacons
 1050 rcvd (99) KØBI APRS beacons
 1052 rcvd (1) KØBI APRS beacon
 1059 rcvd (3) KØBI APRS beacons
 1104 rcvd (2) KØBI APRS beacons
 1107 rcvd (1) KØBI APRS beacon
 1108 rcvd (71) KØBI APRS beacons
 1110 rcvd (1) KØBI APRS beacon
 1111 rcvd (3) KØBI APRS beacons
 1113 rcvd (5) KØBI APRS beacons
 1114 rcvd (1) KØBI APRS beacon
 1115 rcvd (14) KØBI APRS beacons
 1117 rcvd (27) KØBI APRS beacons
 1118 rcvd (3) KØBI APRS beacons
 1119 rcvd (64) KØBI APRS beacons
 1127 rcvd (3) KØBI APRS beacons
 1129 rcvd (1) KØBI APRS beacon
 1130 rcvd (4) KØBI APRS beacons
 1131 rcvd (2) KØBI APRS beacons
 1138 rcvd (1) KØBI APRS beacon
 1155 rcvd (5) KØBI APRS beacons
 1156 rcvd (2) KØBI APRS beacons
 1200 WØRPK beacon system at s/n 407915

Ralph Wallio, WØRPK
 Middle River Valley Radio Observatory
 1250 Highway G24
 Indianola, Iowa 50125

515-961-0383
 WØRPK @ WØAK.IA
 wallio@dsmanet.com
 Monitoring 3.818MHz and
 7.258MHz during the test

220. Re: [APRSSIG:2795] GPS receivers for sale

From: bc@pixar.com
 Date: Sun, 13 Aug 1995 13:43:25 -0700
 To: aprssig@tapr.org
 Message-ID: <9508131343.ZM15556@ren>
 Rendered body type: text/plain

George -

I'd like to buy at least one of your PVT-6 boxes. Can you hold one
 for me? I can get a cashiers check in the mail tomorrow AM if you'll
 send me your address. (Would like 2 if possible, but if the demand
 is exceedingly high (which i suspect it will be :-), I'd settle for one.)

Thanks!!!!!!

--

Bill Carson / bc@pixar.com / 510-215-3483
 "3 movies a day, 3 books a week, and some good music ..." -- F. Truffaut

221. Re: [APRSSIG:2795] GPS receivers for sale

From: wharrell <Wharrell@cris.com>
 Date: Sun, 13 Aug 1995 17:15:08 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.90.950813171103.21098A-100000@mariner.cris.com>

Rendered body type: text/plain

On Sun, 13 Aug 1995, George Henry wrote:

```
>
> * Original Area: CHIHAM
> * Original To : All (1:115/668)
>
> I have 10 Motorola PVT-6 "black box" GPS receivers for sale.
>
> These are perfect for APRS: RS-232 data output (no display),
> active antenna with cable, docs, new antenna mounting kit. You build
> your own data cable.... Rev. 8.3 firmware, all tested and ready to go.
>
> These are more of the same units that we sold in the TAPR APRS-SIG
> a few months ago.
>
> Same price: $150 each, plus $5 shipping in continental US
>
>
> reply by e-mail to ka3hsw@amsat.org or Fido netmail to 1:115/668
>
> These will go FAST!!!!
>
> 73 de KA3HSW
>
>
> .. Ah'm Bubba of Borg...ya'll prepare 't be 'similated now, y'heah?
>
Hello, does it innclude all needed to operate the GPS reciever ? I'm in
Georgia and have wanted a GPS unit to stir activity in our area. Please
hang on to one for me until I can contact you by tele. Please leave your
number. I plan to use it here in demos to clubs in the area, and normal
costing systems are expensive for what i need. I anxiously await your
reply.
```

73 de Wayne Harrell WD4LYV
WHARRELL@CRIS.COM

222. Re: [APRSSIG:2794] 2M MScatt stats (4)

From: wharrell <Wharrell@cris.com>
Date: Sun, 13 Aug 1995 17:21:22 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.90.950813171630.21098B-100000@mariner.cris.com>
Rendered body type: text/plain

There are 5 stations here in South Georgia with stations online for the TEST.
WA4NTF in Ashburn is running 90 Watts on VHF
WA4NTF is also doing some operating on 6 meters , not sure of the power.

KB4TCU is operationg in Douglas with 850 watts

WD4LYV IN Sycamore is operating with 160 wats

KD4RJY in Tifton is running 50 watts

KE4JUC in Ashburn on 10 watts

I will gather a report from these stations and post what they have heard
here. As of Sunday afternoon I WD4LYV has not received any packets
outside Georgia... 73 de Wayne

223. 2M MScatt stats (5)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 13 Aug 1995 18:37:31 -0400 (EDT)
To: aprssig@tapr.org
Cc: Prof Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.950813113829.8942A-100000@greatlakes>
Rendered body type: text/plain

Success continues! Here is the status matrix for 2m APRS DX:
If this does NOT accurately reflect your report, then tell me!

```

      ?      .
EFF. RADIATED PWR:  5      2      8      3      2      4      1
                   0                                KILOWATTS
-----
TRANSMITTING STNS:  W W W W N K K N K W W N N N N W
                   A D B 8 3 1 E 2 B B 3 3 0 9 8 A
```

RECEPTION REPORTS:		1 0 5 R E H 4 U 4 4 A K A G A 4	Y G N Q O T E N T A D M N J J N	zulu
CALL	GRID	ST	N K J R U R	F DDhhmm Miles
N2UNH	FN20og	NJ	.	1 111900 744
WB4APR	FM19dx	MD	33	110500 373 tropo
K1HTV	FM19	MD	.	120728
N3HPR	EN92wb		.	111803 577 Omni!
N3QAE	FN10lw	PA	.	12 ? ? ?
N3EOY	EN91fx	Erie PA.	1	121916 306
	180 deg @ 130'		1	121943 739
WA1YKN	FN41tp	MA	.	121814 1188
			9	130326 1188
N9GJJ	EN43ix	WI	1	120423 634
	beaming East		1	120423 539
			9	120602 586
			3	120639 820
			.	120712 1075
			6	121735 649
N0AN	EN31fx		1	120400
			2	120500
			5	120800
			1	120900
			9	121000
			5	121100
			1	121200
			1	121800
			9	121900
			15	130300
			11	130400
			6	130500
			4	130600
			1	130800
			18	130900
			29	131000
			1	131100
WA1LOU	FN31	?	.	1 120433 540
			4	121804 1078
			3	130323 1078
W3ADO	FM19sx	MD	2	121800 965
			1	121900 965
			2	122000 965
			2	122100 965
			1	130400 965

WA1YKN FN41tp Nothing heard
N4QEA Atlanta Nothing heard
WS5R DM95cf Texas Nothing heard

Notice the effect on N0AN when W3ADO dish pointed his way!
Dish has pointed at Florida, Atlanta, Chicago. It will stay on Chicago tonight (Sunday) since I will be unavailable to change it.

YOU MUST use O-C-T and set your TNC FULLdup ON to disable your TNC collision avoidance so that it transmits when APRS tells it to, and not after the channel goes clear! (when other locals are listening!)

Check your D-LIST to verify that you heard direct; then Check # of pkts on HEARD log. HOME on your station and use the MAPS-PLOTS-RANGE to measure the range to DX stn. Report only if they are > than 300 mi.

Use the MAPS-PLOTS-GRID command to see the grid square of the cursor, and use OPS-FIND-[grid to find the location of any grid report.

PLEASE REPORT THE FOLLOWING ON ALL POSITS HEARD:

- 1) Your BEAM HEADING and GRIDSQUARE
- 2) CALL TIME(in UTC) GRID #pkts RANGE

224. 6M Packet METSCAT Test, 13Aug 23:59Z Report

From: Ralph Wallio <WALLIO@dsml.dsmnet.com>
Date: Sun, 13 Aug 1995 19:34:54 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950813193454.6a4c@dsml.dsmnet.com>
Rendered body type: text/plain

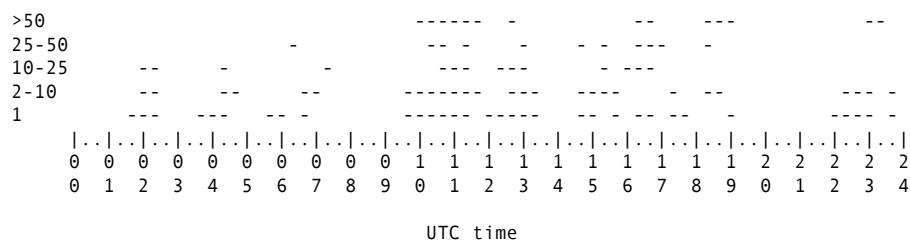
6M Packet Radio METSCAT Test - 1995 Perseids
Test Report #6, 13Aug95 23:59UTC

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions of 100+ packets will occur during the first half of each minute using standard 1200BPS AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).

At 72 of 96-hours, all station control, logging and RF functions are AOK. During 12:00-23:59Z, we concluded the 24-hour path test with K0BI in EN72bm (400-miles). Numerous packets were received, many long groups, too long for meteor bursts (see log below). Es propagation continues to be suspected. Several packet bursts were also received from WD4KPD in FM15ml (986-miles). A QSO attempt was initiated but with no success. The W0RPK beacon packet count is now 476,110. Beacon transmissions continue with the W0RPK antenna at 90-degrees.

Following is a crude scattergram of packet receptions from K0BI from 12Aug 16:00Z to 13Aug 16:00Z. More rigorous data analysis, including the reverse path, will be attempted after this test is complete.

Packets received



Test log:

```

13Aug95
1200 W0RPK beacon system at s/n
1201 rcvd (1) K0BI APRS beacon
1215 rcvd (1) K0BI APRS beacon
1216 rcvd (1) K0BI APRS beacon
1222 rcvd (13) K0BI APRS beacons
1229 rcvd (5) K0BI APRS beacons
1233 rcvd (1) K0BI APRS beacon
1235 rcvd (9) K0BI APRS beacons
1243 rcvd (1) K0BI APRS beacon
1247 rcvd (1) K0BI APRS beacon
1248 rcvd (25) K0BI APRS beacons
1249 rcvd (102) K0BI APRS beacons
1250 rcvd (67) K0BI APRS beacons
1252 rcvd (5) K0BI APRS beacons
1259 rcvd (15) K0BI APRS beacons
1301 rcvd (1) K0BI APRS beacon
1304 rcvd (17) K0BI APRS beacons
1305 rcvd (6) K0BI APRS beacons
1306 rcvd (32) K0BI APRS beacons
1310 rcvd (5) K0BI APRS beacons
1311 rcvd (4) K0BI APRS beacons
1315 rcvd (2) K0BI APRS beacons
1316 rcvd (1) K0BI APRS beacon
1435 rcvd (4) K0BI APRS beacons
1436 rcvd (1) K0BI APRS beacon
1438 rcvd (1) K0BI APRS beacon
1439 rcvd (4) K0BI APRS beacons
1448 rcvd (2) K0BI APRS beacons
1451 rcvd (28) K0BI APRS beacons
1457 rcvd (1) K0BI APRS beacon
1458 rcvd (8) K0BI APRS beacons
1459 rcvd (3) K0BI APRS beacons
1501 rcvd (2) K0BI APRS beacons
1503 rcvd (5) K0BI APRS beacons
1509 rcvd (8) K0BI APRS beacons
1519 rcvd (4) K0BI APRS beacons
1528 rcvd (31) K0BI APRS beacons
1530 rcvd (12) K0BI APRS beacons
1536 rcvd (1) K0BI APRS beacon
1549 rcvd (5) K0BI APRS beacons

```

1550 rcvd (1) K0BI APRS beacon
1552 rcvd (1) K0BI APRS beacon
1555 rcvd (2) K0BI APRS beacons
1604 rcvd (26) K0BI APRS beacons
1605 rcvd (2) K0BI APRS beacons
1608 rcvd (2) K0BI APRS beacons
1610 rcvd (5) K0BI APRS beacons
1617 rcvd (30) K0BI APRS beacons
1627 rcvd (4) K0BI APRS beacons
1629 rcvd (68) K0BI APRS beacons
1642 rcvd (11) WD4KPD beacons
1645 antenna redirected to 110d for WD4KPD
1711 rcvd (13) WD4KPD beacons
1714 xmiting to WD4KPD S24
1730 rcvd (14) WD4KPD beacons
1736 xmiting to WD4KPD S38
1751 rcvd (4) WD4KPD beacons
1753 xmiting to WD4KPD S42
1920 xmiting beacons at s/n 443910
1925 antenna redirected to 90d
2359 W0RPK beacon system at s/n 476110

Ralph Wallio, W0RPK
Middle River Valley Radio Observatory
1250 Highway G24
Indianola, Iowa 50125

515-961-0383
W0RPK @ W0AK.IA
wallio@dsmmnet.com
Monitoring 3.818MHz and
7.258MHz during the test

225. 2M Mscatt stats(2)

From: rwf <rwf@mindspring.com>
Date: Sun, 13 Aug 1995 23:18:34 -0400
To: aprssig@tapr.org
Message-ID: <199508140318.XAA28030@dylan.mindspring.com>
Rendered body type: text/plain

As of 3:00z 8/14

Still no 2M packets heard in Atlanta yet. All beacons, digi's, etc are off
(Except for lots of stuff out of North East Alabama and 1 in N GA)
Bill?????

I am the only station I hear sending metscat tests

Ralph Fowler
N4NEQ

226. BEAR WITH US!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 14 Aug 1995 00:15:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950813235711.9934F-100000@greatlakes>
Rendered body type: text/plain

I know this Meteor Shower is generating a lot of traffic in your IN
boxes, but it will all be over TOMORROW! and we can get back to our
usual ratraces... and your D finger can get some rest....

I have learned 2 things about APRS:

- 1) DO NOT use the OPS-FIND-[grid square COMMAND with anything less than a full 6 character grid square. It will crash if you enter just [FM19 for example... (How do I know?... I lost a full day of MScat data..)
- 2) The INPUT-DF bearing RELATIVE does NOT work while mobile foxhunting... Until I fix it, you can enter all bearings in TRUE. But if you can figure that out while driving, you are better than I! If you use one of those nautical handheld "sight" compases, tho, it is trivial! Hang in there, we'll eventually get it working right...

P.S. Participated in my first find-the-tiny-box FOX HUNT. It sure humbles us DOppler guys.... What do you do at the end of the road?! Since I had NO hand DF equipment, I used the HT-on-the-chest with no antenna BODY-BLOCK method. I got within 6 feet when I spotted the box! The Body Block method works!!! (APRS was useless! hi hi)

Only problem was that the box said "change freq to xxxx and find the second box!" Again, the body block method worked perfectly!!!

227. Garminn 45 (Gardown7 to APRS.HST)

From: rkramer@vaxxine.com (Ronald Kramer)
Date: Mon, 14 Aug 1995 00:46:52 -0400
To: aprssig@tapr.org
Message-ID: <9508140446.AA19648@alpha.vaxxine.com>
Rendered body type: text/plain

Here is a Basic program to take the Garmin 45 761 points stored in the track memory and convert it to a history file for use by APRS. You will need to obtain a copy of GARDOWN7 to use this program. Hope that this help the standalone tracker's for making Maps... The name I give this QBASIC program is GDN45HST.BAS
[Attachment: GDN45HST.BAS; text/plain; 1,428 bytes]

228. Re: [APRSSIG:2804] Garminn 45 (Gardown7 to APRS.HST)

From: rwf <rwf@mindspring.com>
Date: Mon, 14 Aug 1995 02:21:52 -0400
To: aprssig@tapr.org
Message-ID: <199508140621.CAA26281@dylan.mindspring.com>
Rendered body type: text/plain

Ron Kramer wrote:

>Here is a Basic program to take the Garmin 45 761 points stored in
>the track memory and convert it to a history file for use by APRS.
>You will need to obtain a copy of GARDOWN7 to use this program.
>Hope that this help the standalone tracker's for making Maps...
>The name I give this QBASIC program is GDN45HST.BAS

And for those who need it.... Gardown7.zip (as well as lots of other GPS programs) can be found on my web or ftp site:

<http://www.mindspring.com/~rwf>
or

<ftp.mindspring.com/users/rwf/>
no tilde(~) on the ftp site!

note that there is

Ralph
N4NEQ

229. S APRSSIG @ TAPR.ORG

From: zslafz@zsluct.ampr.org
Date: Mon, 14 Aug 95 09:53:40 GMT
To: aprssig@tapr.org
Message-ID: <6572@zsluct.ampr.org>
Rendered body type: text/plain
[Empty message body]

230. RE :[APRSSIG:2611] KPC Settings

From: zslafz@zsluct.ampr.org
Date: Mon, 14 Aug 95 09:56:15 GMT
To: aprssig@tapr.org
Message-ID: <6576@zsluct.ampr.org>
Rendered body type: text/plain

Hello Rand, WA2AGE

I've seen your request for the required settings for the KPC-9612 and am curious to know whether you've managed to obtain these settings and have been successful getting your KPC to function?

If you have been succesful in acquiring these settings, I shall appreciate it very much if you could PLEASE forward the instructions to us as well?

We've purchased the KPC-9612 with a Kenwood TM-251A 2M Tx and 70cm Rx recently and have been sending Packet Radio requests out by the heaps attempting to get in touch with other users of the sme or similar equipment ... with no joy! The problem that we are experiencing is that the rig has only ONE antenna plug and the KPC-9612 has TWO ports. We would like to use this set-up later on for PACSat and thus will hav to be able to rx on 70cm and tx on 2m. We are going to use a pre-amp at the 70cm antenna as well. What kind of solution can be worked out for a antenna system for such setup WITHOUT opening and modifying the rig itself (as it is off course

under guarantee)?

I have been looking for the plans/shematics for a discone antenna (dualbander for 2m and 70cm) as well. Also with no success.

Any chance you can perhaps put us on the right track Randy?

Your help/advice will be very much appreciated!

73 de Maria - ZS1AFZ @ ZS1UCT.AMPR.ORG

231. 2M Mscatt stats final

From: schiers@ibm.net (hasan schiers)

Date: Mon, 14 Aug 95 12:15:22 EDT

To: aprssig@tapr.org

Message-ID: <199508141214.MAA15732@smtp-gw01.ny.us.ibm.net>

Rendered body type: text/plain

Here is my heard list so far, I was also heard and called by land line by N3QWE in FN10LW, Mifflinburg, PA

All Reports: 12el K1F0 2m yagi (78') pointed 90 degrees with 150w output
Mast Mounted GasFet Preamp, FT-736R. N0AN grid: EN31FX

Date: 08/12/95

Time (utc)	Call	State	Grid	Heard Count
0400	wb5nlj	PA	en90we	1
0500	wb4apr-2	MD	fm19qd	2
0800	w3ado-2	MD	fm18sx	1
	k1htv	MD	fm18ox	5
0900	k1htv	MD	fm18ox	9
	walykn	MA	fn41tp	1
1000	k1htv	MD	fm18ox	9
1100	k1htv	MD	fm18ox	5
1200	k1htv	MD	fm18ox	1
1800	walykn	MA	fn41tp	1
	n3kmj	PA	en90xa	1
1900	n3kmj	PA	en90xa	9

Date: 08/13/95

0300	w3ado-2	MD	fm18sx	15
0400	w3ado-2	MD	fm18sx	11
0500	w3ado-2	MD	fm18sx	6
0600	w3ado-2	MD	fm18sx	4
0800	w3ado-2	MD	fm18sx	4
	k1htv	MD	fm18ox	1
0900	w3ado-2	MD	fm18sx	18
1000	w3ado-2	MD	fm18sx	29
1100	w3ado-2	MD	fm18sx	1
1400	w3ado-2	MD	fm18sx	10
1600	n3kmj	PA	en90xa	3
1700	w3ado-2	MD	en90xa	29
1800	w3ado-2	MD	en90xa	3
2000	w3ado-2	MD	en90xa	1

Date 08/14/95

0100	walykn	MA	fn41tp	3
0500	w3ado-2	MD	en90xa	4
0600	w3ado-2	MD	en90xa	1
0900	walykn	MA	fn41tp	1
1000	walykn	MA	fn41tp	1

END OF METSCAT OPNS: 1200 utc 08/14/95

robert "hasan" schiers

Ham Radio Packet: n0an@n0an.ia.usa.noam

232. VA3MW (FN03) results...

From: mwalker@interlog.com (Mike Walker)

Date: Mon, 14 Aug 95 08:28:40 EDT

To: aprssig@tapr.org

Message-ID: <199508141228.IAA04543@gold.interlog.com>

Rendered body type: text/plain

Well, I ran with version 72b from Thursday evening until Sunday evening and didn't hear a thing.

I ran with a TS-690SAT/ DSP-2232 on 6m pointed at 225 degrees.

Did anyone copy me???

cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

233. 6M Packet METSCAT Test, 14Aug 12:00Z Report

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>
Date: Mon, 14 Aug 1995 7:58:17 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950814075817.6cd0@dsm1.dsmnet.com>
Rendered body type: text/plain

6M Packet Radio METSCAT Test - 1995 Perseids
Test Report #7, 14Aug95 12:00UTC

W0RPK will transmit APRS compatible packet radio beacons on 50.620MHz during the 1995 Perseids meteor shower. Automatic transmissions of 100+ packets will occur during the first half of each minute using standard 1200BPS AFSK on FM modulation. During the second half of each minute W0RPK will monitor for packets from other stations. The test will start at 0001UTC 11Aug and end at 2359UTC 14 Aug (Thursday evening to Monday evening CDT).

At 84 of 96-hours, all station control, logging and RF functions are AOK. During 00:00-12:00Z, a single packet was received from N0QVC in EN34GH at 199-miles. The antenna was slewed north in an attempt to copy more but without success. We also went silent for a while thinking we might be covering N0QVC APRS controlled transmissions but nothing more was heard. Our antenna was then slewed to the ESE for overnight tests with WD4KPD in FM15MM (or FM15ML?) at 986-miles. Eleven packets were copied, 10 in a single burst. Beacon transmissions continue with the antenna at 110-degrees. The W0RPK beacon packet count is now at 554,080.

Test log:

14Aug95
0000 W0RPK beacon system at s/n 476225
0108 rcvd (1) N0QVC APRS beacon
0151 antenna to 000-degrees
0152 xmitting S01 to N0QVC
0202 silent listening for N0QVC
0230 antenna to 110-degrees
0231 xmitting beacons at s/n 488760
0505 rcvd (1) WD4KPD APRS beacon
0627 rcvd (10) WD4KPD APRS beacons
1200 W0RPK beacon system at s/n 554080

Ralph Wallio, W0RPK
Middle River Valley Radio Observatory
1250 Highway G24
Indianola, Iowa 50125

515-961-0383
W0RPK @ W0AK.IA
wallio@dsmnet.com
Monitoring 3.818MHz and
7.258MHz during the test

234. Re: 2M meteor scatter tests...

From: WA1YKN@aol.com
Date: Mon, 14 Aug 1995 12:31:56 -0400
To: aprssig@tapr.org
Message-ID: <950814123150_74102096@aol.com>
Rendered body type: text/plain

Greetings Fellow Participants,

Based on the information in APRSSIG:2436, 7/22/95, The Meteor activity level won't drop below the 25% level until 0800z, 15 Aug, 1995. Therefore, I will continue to operate WA1YKN in FN41tp until sometime late Tuesday morning, Aug 15th.

For the remainder of the test, from 1600z Aug 14th, I will position the beams on Atlanta, GA, which with the beam pattern of this antenna system should cover most of the deep south east of the Mississippi River...

Mitch...

235. GPS receivers

From: George_E_Henry <ka3hsw@neutron.pd.mcs.net>
 Date: Mon, 14 Aug 1995 10:30:32 -0500 (CDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SV4.3.91.950814102700.28816A-100000@neutron.pd.mcs.net>
 Rendered body type: text/plain

As predicted, all ten of the PVT-6 receivers are spoken for.

To be fair in allocating the 10 units to the more than 20 requests I received, orders will be filled in the order they were received.

Each of you who sent me a request will receive an individual reply, positive or negative.

Stay tuned.... still more may become available!!!

73 de KA3HSW

236. Magellan Nav-5000DX

From: wnolle@ro.com (William Nolle)
 Date: Mon, 14 Aug 1995 12:03:47
 To: aprssig@tapr.org
 Message-ID: <199508141710.MAA06323@sh1.ro.com>
 Rendered body type: text/plain

I'm still trying to get my GPS to work with my KPC3 and i'm having a lot of problems for some reason. I believe it's in the way the KPC3 is setup and i'll tell you why i think so. I made a special cable as Magellan requests tp Up/Dload waypoints using their software and that part works great although their software leaves a lot to be desired to say the least, then i hooked the Magellan to my serial poort and using Q-Modem had no problem reading the data, so i have to assume that the GPS is working ok. When hooked to the serial input on the KPC3 using a DB9 and hooking DATA+ to pin3 and DATA- to pin5 and setting the KPC3 according to someone else using a simular GPS (Magellan) i get one beacon showing the LAT/LON and the car icon. That's where the problem starts, i get only one beacon and NO updates at all although the GPS is updating without any problem. My setting are as follows.

```
BLT 1 EVERY 00:01:30
GPSHEAD 1 $GPRMC
LTP 1 GPS VIA KE4EER-5,WIDE
BEACON E 2
UNPROTO APRS VIA KE4EER-5.WIDE
MYCALL KE4EER-2
PBBS 0
MYREMOTE KE4EER-13
RTEXT XXXXXXX
INTFACE GPS
```

Then i turn KPC3 Off/On

I sure hope someone can find the problem for me. At first i figured as soon as i drove away from the house that my rig was not putting out a signal, but i checked all that and all is working great.

Bill KE4EER
 wnolle@ro.com

237. MScat Early Conclusions

From: Bob Bruninga <bruninga@nadn.navy.mil>
 Date: Mon, 14 Aug 1995 13:47:55 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950814124320.2141D-100000@greatlakes>
 Rendered body type: text/plain

Well, we have one more evening, but here are my general conclusions. If you have any different conclusions or observations, please send them in, but maybe my posting mine early will stave off a lot of repitition...

TWO METERS:

1) 1200 baud AX.25 MScat on 2 meters works if you have HIGH POWER, a BEAM, a computer program for persistence, and a common frequency.

- 2) 2M Thru-put is so low, that MScat will only be useful for DX, not trfc.
- 3) Adding a MESSAGE RECEIVE function to match the MESSAGE SEND (in 72d) would add a little more fun and make valid DX QSO's possible.

SIX METERS:

- 1) 1200 baud AX.25 MScat is quite usable on 6m at 100 W and a modest beam.
- 2) 6M Thru-put is reasonable enough for simple QSOs.
- 3) DX and contesting are a good application under computer control
- 4) Point-to-point links for passing traffic may work at 1200 baud FM, but Once you go to the trouble to set up a link, you may as well optimize the DATA RATE and the MODULATION, for much higher throughput.

IDEAS: I think that there are several paths to take from here:

- 0) A few stations need to find a quiet freq and continue the same tests to see how ROUTINE MScat works compared to a SHOWER.
- 1) Fix APRS for maximum participation in MScatt 2m DX events (1200 bd FM)
- 2) Improve APRS for 2-way QSO style operations on 6m (1200 baud FM)
- 3) Develop a LINK protocol for moving traffic on 6 via MScatt
- 4) Pairs of stations begin testing 9600 baud FSK on 6m
- 5) Identify 2 widely separated freqs on 6m for FULL-DUX links.
- 6) Begin building a 6m POSITION REPORTING net using conventional APRS but without digipeaters. Mobiles transmit on a 10% duty cycle 100% of the time! All posits come in via MScat direct.

QUESTIONS: For the MScat experts, enlighten us on the following:

- 1) How does the average 160 ms APRS packets (abt 20 bytes) we were using compare with the optimum dwell time on 2 meters, on 6 meters?
- 2) Staying with the same configuration we were using, on 6 meters, can the packets be lengthened and still see the same throughput, or is shortest possible still best?
- 3) What dB improvement would a change to FSK vice FM AFSK make?
- 4) Are you saying that the PRO's always PROBE full DUX from NETcontrol and then expect to get REPLIES via the SAME path? What application can use this approach in Ham Radio?

5) Still seems that the ONE-WAY position report is an IDEAL application for the statistics of MScat on 6m. Since it is ONE way, AND the POSIT is always the same length (20 bytes, 200 ms) and the meteor dwell time on 6m is longer, SEEMS that shorter packets and higher speeds are NO real advantage compared to the added complexity and cost. So the only thing left is a better modulation scheme. THEREFORE, What is the quantifiable advantage of going to FSK, and unique modems, compared to just playing along at 1200 baud AX.25 FM?

238. Re: [APRSSIG:2811] Re: 2M meteor scatter tests...

From: Bob Bruninga <bruninga@nadn.navy.mil>
 Date: Mon, 14 Aug 1995 13:59:08 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950814135708.2141G-100000@greatlakes>
 Rendered body type: text/plain

On Mon, 14 Aug 1995 WA1YKN@aol.com wrote:

>
 > For the remainder of the test, from 1600z Aug 14th, I will position the
 > beams on Atlanta, GA, which with the beam pattern of this antenna system
 > should cover most of the deep south east of the Mississippi River...

APR COMMENTS: I too am taking pity on Atlanta. The 30,000 Watts ERP from the Academy dish will point to Georgia for MONDAY night through Tuesday.

239. 2M MScatt stats (6)

From: Bob Bruninga <bruninga@nadn.navy.mil>
 Date: Mon, 14 Aug 1995 14:28:02 -0400 (EDT)
 To: aprssig@tapr.org
 Cc: Bob Bruninga <bruninga@greatlakes.nadn.navy.mil>
 Message-ID: <Pine.SUN.3.91.950814141034.8237A-100000@greatlakes>
 Rendered body type: text/plain

I still need ERP's for the TRANSMITTING stations...

Nearing the END! Here is the status matrix for 2m APRS DX:
 If this does NOT accurately reflect your report, then tell me!

			?	?				
EFF. RADIATED PWR:	5	2	4	8	3	2	4	1
					0			

 TRANSMITTING STNS: W W W W N K K N K W W N N N N W W
 A D B 8 3 1 E 2 B B 3 3 0 9 8 A A
 1 0 5 R E H 4 U 4 4 A K A G A 4 4

RECEPTION REPORTS:			Y	G	N	Q	O	T	E	N	T	A	D	M	N	J	J	N	H	zulu			
CALL	GRID	ST	N	K	J	K	M	L	Q	Y	V	E	H	C	P	O	J	J	D	T	E	DDhhmm	Miles
N2UNH	FN20og	NJ	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	111900	744	
WB4APR	FM19dx	MD	33	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	110500	373 tropo	
K1HTV	FM19	MD	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	120728	908	
N3HPR	EN92wb		.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	111803	577 Omni!	
N3QAE	FN10lw	PA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	?	.	.	.	12 ? ?	855	
N4ZXW	?		.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	??	??	
KC1WC	FN24fj	NY	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	121800	869 Xmt 60deg	
			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	.	132100	779 Xmt East	
N3EOY	EN91fx	Erie PA.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	121916	306	
	180 deg @ 130'		.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	121943	739	
WA1YKN	FN41tp	MA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	.	.	.	121814	1188	
			.	.	.	.	.	.	.	.	.	.	.	.	.	.	9	.	.	.	130326	1188	
			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	.	.	140138	1068	
N9GJJ	EN43ix	WI	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	120423	634	
	beaming East		.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	120423	539	
			.	.	.	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	120602	586	
			.	.	.	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	120639	820	
			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	120712	1075	
			.	.	.	.	.	6	.	.	.	.	.	.	.	.	.	.	.	.	121735	649	
N0AN	EN31fx		.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	120400	708	
			.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	120500	908	
			.	.	.	.	5	.	.	.	.	1	.	.	.	.	.	.	.	.	120800	908	
			1	.	.	.	9	.	.	.	.	.	.	.	.	.	.	.	.	.	120900	1188	
			.	.	.	.	9	.	.	.	.	.	.	.	.	.	.	.	.	.	121000	902	
			.	.	.	.	5	.	.	.	.	.	.	.	.	.	.	.	.	.	121100	902	
			.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	121200	902	
			1	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	121800	1188	
			.	.	.	.	.	.	.	.	.	9	.	.	.	.	.	.	.	.	121900	639	
			.	.	.	.	.	.	.	.	.	15	.	.	.	.	.	.	.	.	130300	908	
			.	.	.	.	.	.	.	.	.	11	.	.	.	.	.	.	.	.	130400	908	
			.	.	.	.	.	.	.	.	.	6	.	.	.	.	.	.	.	.	130500	908	
			.	.	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	130600	908	
			.	.	.	.	1	.	.	.	.	4	.	.	.	.	.	.	.	.	130800	902	
			.	.	.	.	.	.	.	.	.	18	.	.	.	.	.	.	.	.	130900	908	
			.	.	.	.	.	.	.	.	.	29	.	.	.	.	.	.	.	.	131000	908	
			.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	131100	908	
WA1LOU	FN31mp		.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	120433	540	
			.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	.	.	.	121804	1078	
			.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	.	.	.	130323	1078	
W3ADO	FM19sx	MD	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	121800	965	
			.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	121900	965	
			.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	122000	965	
			.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	122100	965	
			.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	130400	965	
			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	131700	681	
			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	17	.	.	132100	681	
			.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	132300	681	
			.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	132300	908	
WA4HEI	EN65ux		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
N4NEQ		Atlanta																			Nothing heard		
W55R	DM95cf	Texas																			Nothing heard		

W3ADO 30,000 Watts beaming to Atlanta Monday night thru Tues AM.

Check your D-LIST to verify that you heard direct; then Check # of pkts on HEARD log. HOME on your station and use the MAPS-PLOTS-RANGE to measure the range to DX stn. Report only if they are > than 300 mi.

Use the MAPS-PLOTS-GRID command to see the grid square of the cursor, and use OPS-FIND-[grid to find the location of any grid report. YOU MUST ENTER a 6 DIGIT GRID-SQ or APRS WILL CRASH!!!!

PLEASE REPORT THE FOLLOWING ON ALL POSITS HEARD:

- 1) Your BEAM HEADING and GRIDSQUARE
- 2) CALL TIME(in UTC) GRID #pkts RANGE His MSCAT report (^HP)

240. Re: [APRSSIG:2813] Magellan Nav-5000DX

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 14 Aug 1995 13:47:12 -0500
To: aprssig@tapr.org
Cc: wnolle@ro.com
Message-ID: <v01520d00ac554292ab83@[199.1.11.115]>
Rendered body type: text/plain


```

>I'm still trying to get my GPS to work with my KPC3>all although the GPS is
>My setting are as follows.
>
>BLT 1 EVERY 00:01:30
>GPSHEAD 1 $GPRMC
>LTP 1 GPS VIA KE4EER-5,WIDE
>BEACON E 2
>UNPROTO APRS VIA KE4EER-5.WIDE
>MYCALL KE4EER-2
>PBBS 0
>MYREMOTE KE4EER-13
>RTEXT XXXXXXX
>INTERFACE GPS
>
>Bill KE4EER

```

=====

I use the KPC-3 and a Garmin-45 you could be having a cable voltage or connection problem to the TNC. Try this :

- A. Check using Qmodem that you get a NMEA string that start with \$GPRMC
The GPSHEAD \$GPRMC must be all upper case
- B.>UNPROTO APRS VIA KE4EER-5.WIDE (might just be a typo, you want a comma)
- C. Re connect Qmodem and after a few mins and look at LT
The LT buffer should be filled with real GPS data


```

LT
1 $GPGGA,064301.3250.743,N,09645.669,W,1.05,2.6,236.7,M,-24.8,M,,*71
2 $GPRMC,064303,A,3250.742,N,09645.668,W,002.4,121.2,040695,,*06
3
4

```

If not you are not getting data look to the cable.

Reset the LT buffer with null data between tests
by typing it into the TNC using command mode.

Set the BLT to a shorter time for testing.
- D. You do have a ground in the cable I/O some where right ?
- E. What do you have the CD set to: I use Software CD

Let me know if the problem is not getting data into the tnc or out of the tnc.

73
Bob kc5ejk@onramp.net

241. Re: [APRSSIG:2813] Magellan Nav-5000DX

From: Ann Reeves <annr@comtch.iea.com>
Date: Mon, 14 Aug 1995 13:30:47 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.950814131936.15833A-100000@comtch>
Rendered body type: text/plain

On Mon, 14 Aug 1995, William Nolle wrote:

```

> I'm still trying to get my GPS to work with my KPC3 ...
> My setting are as follows.
>
> BLT 1 EVERY 00:01:30
> GPSHEAD 1 $GPRMC
> LTP 1 GPS VIA KE4EER-5,WIDE
> BEACON E 2
> UNPROTO APRS VIA KE4EER-5.WIDE
> MYCALL KE4EER-2
> PBBS 0
> MYREMOTE KE4EER-13
> RTEXT XXXXXXX
> INTERFACE GPS
>
> Bill KE4EER
> wnolle@ro.com
> -----

```

We use a Magellan & KPC3 also. Only differences in settings I notice are that we use LTP 1 APRS, WIDE rather than GPS, WIDE And also we use

GPSHEAD 1 \$GPGGA (for which we set NMEA in the AUX menu of the GPS to 0183C. If you are using GPSHEAD 1 \$GPRMC then it looks like you should use NMEA 0183B. When I had that part wrong, we got NOTHING out of APRS but the OLD data, it would not update.

Ann WA7ROS and Jim WA7RVV

242. Dataengine Advice

From: mark@tetherless.com (Mark Oppenheim)
Date: Mon, 14 Aug 1995 16:20:39 -0700
To: aprssig@tapr.org
Message-ID: <199508142320.QAA21480@gorgor.pa.tetherless.com>
Rendered body type: text/plain

Any recommended parms or init files for using a DataEngine on APRS?

I have a 9600 baud G3RUH-like modem on port 0 (not being used) and the 1200 AFSK modem on Port 1

Mark
KD6KQ

```
-----
Mark Oppenheim                               Internet: MARK@TETHERLESS.COM
Tetherless Access Limited                     Voice: 415-843-6880 x18
2468 Embarcadero Way                         Fax: 415-843-6890
Palo Alto, California 94303 USA
```

Visit our WWW site! <http://www.tetherless.net/>

```
-----
```

243. Re: [APRSSIG:2815] Re: 2M meteor scatter tests...

From: rwf <rwf@mindspring.com>
Date: Mon, 14 Aug 1995 20:03:26 -0400
To: aprssig@tapr.org
Message-ID: <199508150003.UAA05356@dylan.mindspring.com>
Rendered body type: text/plain

At 01:14 PM 8/14/95 -0500, you wrote:

>

>On Mon, 14 Aug 1995 WA1YKN@aol.com wrote:

>>

>> For the remainder of the test, from 1600z Aug 14th, I will position the
>> beams on Atlanta, GA, which with the beam pattern of this antenna system
>> should cover most of the deep south east of the Mississippi River...

>

>APR COMMENTS: I too am taking pity on Atlanta. The 30,000 Watts ERP

>from the Academy dish will point to Georgia for MONDAY night through Tuesday.

>

>

>

Awwww ... thanks, you guys. We'll give it one more try tonight!!

Ralph In Atlanta
N4NEQ

244. 6M Packet METSCAT Test, 14Aug95 23:59UTC Report (Final)

From: Ralph Wallio <WALLIO@dsl1.dsmnet.com>
Date: Mon, 14 Aug 1995 20:58:50 -0500 (CDT)
To: aprssig@tapr.org, vhf@w6yx.stanford.edu
Message-ID: <950814205850.7150@dsl1.dsmnet.com>
Rendered body type: text/plain

6M Packet Radio METSCAT Test - 1995 Perseids
Test Report #8 (final), 14Aug95 23:59UTC

At 96 of 96-hours, all station control, logging and RF functions were still functioning. During 12:00-23:59Z, the W0RPK antenna was directed toward 110-degrees until 19:00Z and then 090-degrees to the end of this test. WA4NTF in EM81er (867-miles) reported receiving a few W0RPK beacon packets in a single burst at 14:42Z. No packets were received at W0RPK from other stations. Beacon transmissions were stopped at 23:59UTC with a final count of 636,880.

Our thanks to test participants and for encouraging comments from

others. Rigorous test analysis will take a few days. Results will be available shortly.

A bit of preliminary analysis shows that during the interval 12Aug 15:20Z to 13Aug 16:30Z (through the 1995 Perseids peak) Jim Roop, KØBI, received 2675 WØRPK beacon packets. During this same interval, including factored out brief intervals when Jim's logging system was down, WØRPK transmitted 144,670 beacon packets. A quick divide (2,675/144,670) shows Jim received 1.85% of WØRPK's transmitted packets.

Test log:

14Aug95
1200 WØRPK beacon system at s/n 554195
1442 WA4NTF in EM81er (867-miles) rpts rcvg (2) WØRPK beacons
2359 WØRPK beacon system stopped at s/n 636880

Ralph Wallio, WØRPK	515-961-0383
Middle River Valley Radio Observatory	WØRPK @ WØAK.IA
1250 Highway G24	wallio@dsnmnet.com
Indianola, Iowa 50125	

245. Re: [APRSSIG:2813] Magellan N...

From: JimK5QQ@aol.com
Date: Mon, 14 Aug 1995 23:18:19 -0400
To: aprssig@tapr.org
Message-ID: <950814231650_54757389@aol.com>
Rendered body type: text/plain

Howdy

Just remember to make your functions in all CAPITAL letters. I didn't think much about it and everything looked like it was supposed to, just not CAPS and so it wouldn't work. When I changed, all worked fine....

Good luck

Q

246. Forget Meteor Scat, BIG TROPO! on 2M

From: Richard Garcia <p015139b@pbfree.net.seflin.lib.fl.us>
Date: Mon, 14 Aug 1995 23:06:48 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9508142201.B19850-0100000@pbfree.net.seflin.lib.fl.us>
Rendered body type: text/plain

Here in South Florida we did not have any luck with a modest station on 2M Meteor Scatter and I am not surprised, we will be better prepared next year. Starting at about 22:00 EST on Sunday the 13 we started seeing a major Tropo opening from West Palm Beach that extended from SW North Carolina to Key West. On Monday morning I found the whole SE Coast from Charleston SC to Key West lit up on the APRS screen with packets coming in EVERY HOUR since 10pm the previous night.

During Monday while I was at work version 7.2c locked up on me and most everything was lost so I do not know what the band was like during the day but at 7pm the band started looking good again. By 8pm the map was lit from Charleston SC to Key West and who knows where else if APRS was used in all major cities. It is now 23:00 on the 14th and here are the stations I had noted as seen DIRECT from SC.

KE40TB, KD4TXX, WB8DLX, K4HCD, KN4IM-5, KD4MMB, KB5YRZ, and a few others that were lost from the previous night due to the program crash. I have not included ALL of the NE Florida stations that were seen in the Jacksonville/SE Georgia area since let's face it you were all seen! hi hi

This was a great opportunity since all of the GATE's were down as far as I could see and at the beginning of the opening my filter list was set to DIRECT signals only, no digipeated packets. After the bulk of the stations were verified direct I removed the DIRECT filter and was able to have better QSO's with those on. Can any other stations report on terrestrial propagation conditions in their area? We may have lost out on Meteors but between Tropo and probably Hurricane Felix enhanced conditions we saw some wonderful conditions!

	73 de Rich Garcia N2CZF/4	
Packet Address:	N2CZF@WB4MOZ.#WPBFL.FL.USA	
Internet Mail :	p015139b@pbfree.net.seflin.lib.fl.us	

```
| "UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR" |
| LATITUDE : 2654.86N LONGITUDE : 8014.48W |
| Jupiter Farms Florida |
| HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79 |
|_____|
```

247. Re: [APRSSIG:2821] 6M Packet METSCAT Test, 14Aug95 23:59UTC

From: dwetzel@acs.uswest.com
Date: Tue, 15 Aug 1995 08:42:09 -0500
To: aprssig@tapr.org
Message-ID: <0309e230@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

6M Packet Radio METSCAT Test - 1995 Perseids
Test Report #8 (final), 14Aug95 23:59UTC

At 96 of 96-hours, all station control, logging and RF functions were still functioning. During 12:00-23:59Z, the W0RPK antenna was directed toward 110-degrees until 19:00Z and then 090-degrees to the end of this test. WA4NTF in EM81er (867-miles) reported receiving a few W0RPK beacon packets in a single burst at 14:42Z. No packets were received at W0RPK from other stations. Beacon transmissions were stopped at 23:59UTC with a final count of 636,880.

Our thanks to test participants and for encouraging comments from others. Rigorous test analysis will take a few days. Results will be available shortly.

A bit of preliminary analysis shows that during the interval 12Aug 15:20Z to 13Aug 16:30Z (through the 1995 Perseids peak) Jim Roop, K0BI, received 2675 W0RPK beacon packets. During this same interval, including factored out brief intervals when Jim's logging system was down, W0RPK transmitted 144,670 beacon packets. A quick divide (2,675/144,670) shows Jim received 1.85% of W0RPK's transmitted packets.

Test log:

14Aug95
1200 W0RPK beacon system at s/n 554195
1442 WA4NTF in EM81er (867-miles) rpts rcvg (2) W0RPK beacons
2359 W0RPK beacon system stopped at s/n 636880

Ralph Wallio, W0RPK	515-961-0383
Middle River Valley Radio Observatory	W0RPK @ W0AK.IA
1250 Highway G24	wallio@dsminet.com
Indianola, Iowa 50125	

Very interesting statistics - I wanted to participate out here in Utah (Salt Lake City), but family commitments and low power/omni antenna gave me no success on 2M. Can this become a regular test tied to other shower activity? I'm headed for the roof this weekend to reinstall beams!

Doug Wetzel
KC7CO

kc7co@kc7co-2.ampr.org
kc7co@n0ary.#NOCAL.CA.USA.NOAM
dwetzel@acs.uswest.com

248. APRS WX ALERT!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 15 Aug 1995 11:58:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950815114504.17114A-100000@greatlakes>
Rendered body type: text/plain

Since MScatt is over, we now have a new EVENT on the horizon. With FELIX headed for the mid-atlantic states, hams at the National Hurricane Center have asked if the APRS network can provide real-time WX data. YES!

Here is the plan. TURN ALL THE GATEWAYS BACK ON. FOR EAST COAST STATIONS:

1) VHF (or HF) stations with AUTOMATED U-II weather instruments, change your UNPROTO PATH to go via the GATEWAY onto HF. You will get the APRS "bitch" warning everytime your station transmits, but ignore it. (select CONTROLS-HF to make APRS think you are on HF to silence it).

MORE later as we get going again...

[illegible]

If anyone on this SIG is entering Hurricane FELIX Lat/Lon, please double-check your math. The coordinates are being gathered as decimal degrees from The Weather Channel for example and incorrectly calculated when transferred to APRS format... not a severe degree of error, but an error nonetheless.

Just a friendly reminder. 73 de Boyd AR

252. Re: [APRSSIG:2828] Hurricane LAT/LONG Calc

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 15 Aug 1995 22:39:28 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950815223843.22262A-100000@pinegov>
Rendered body type: text/plain

On Tue, 15 Aug 1995 W2H0B@aol.com wrote:

>
> If anyone on this SIG is entering Hurricane FELIX Lat/Lon, please
> double-check your math. The coordinates are being gathered as decimal degrees
> from The Weather Channel for example and incorrectly calculated when
> transferred to APRS format... not a severe degree of error, but an error
> nonetheless.
>
> Just a friendly reminder. 73 de Boyd AR
>
>
>
Simple arithmetic, multiply by 6 then divide by ten...or move the decimal,

73 de KD4UYR Seminole, FL

253. APRS MScatt RECORD?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 15 Aug 1995 22:25:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950815220752.25798D-100000@greatlakes>
Rendered body type: text/plain

On Tue, 15 Aug 1995, Steven S. Dimse K04HD wrote:

> I have just returned from the Keys & looked at my meteor scatter results.
> From [EL94GP] near Key West, 170 Watts to 9 db omni at 30 feet.
> Recorded N3EOY 8/12 at 14:43z three consecutive packets
> Recorded N3EOY 8/12 at 18:28z four consecutive packets

APR REPLY: Looks like a record to me! (1196 miles) Im holding final release of the oft-repeated status summary until I get ERP's from these stations: WD0GMK, WB5NLJ, K1HTV, N3KMJ, N8AJD, WA4HEI and confirmation of my ERP estimates for some of the others.

My report is only a two dimension packet count only. There is lots more that can be STUDIED from all the raw data. Anyone want to do some detailed analysis of the following?

- 1) Time dimension. Plot number of packets versus local time. Was 0400 to 0800 local time the peak as theory suggests?
- 2) Antenna pointing. Many of the antenna gains are misleading, since this was a random exercise, any pair of stations may NOT have had their maximum gain pointed at the same sky area.
- 3) Part of above, calculate the SYSTEM gain for EACH CONTACT, taking into account range, XMT power, both antenna gains, and the loss due to off-pointing.
etc...

I will NOT have time to do any more of this detail stuff. All the raw data was reported here on the sig, and is available for someone to write an article.. (I assume Stan Horzempa that started all this mess is going to do his usual one page summary....!)

Anyone know of a MScat SIG? elsewhere?

254. kpc3-gps

From: wnolle@ro.com (William Nolle)
Date: Wed, 16 Aug 1995 08:16:03
To: aprssig@tapr.org
Message-ID: <199508161322.IAA31079@sh1.ro.com>
Rendered body type: text/plain

Well i'm still having problems getting my Magellan NAV-5000DX to work with my KPC3. I think there's is someone on the Sig running this same GPS KPC3 setup, if so i would sure like to know the way it's hookup is handled. I have been at this thing for several weeks now with no luck at all. The problem is that there's no data going into the LT buffer at all. I have tested the GPS and looks like it's working great. Now i fed the GPS data into the KPC3 using Pin#7 for the NMEA- and Pin#2 for the NMEA+. I have used several of the Sig user suggestions as to the KPC3 configurations with no luck at all. By the way i'm using version 6.0 eeprom. A friend of mine uses a Magellan Maridean with a KPC3 and has no problems with his, i even used his configuration. For some reason the KPC3 is not seeing the NMEA data from the serial port. Any help would be appreciated. The Sig is my last resort.

Bill KE4EER
wnolle@ro.com

255. Re: [APRSSIG:2831] kpc3-gps

From: "Daniel Feedback <KJ5MX>" <feedback@phoenix.phoenix.net>
Date: Wed, 16 Aug 1995 08:39:41 -0500 (CDT)
To: William Nolle <wnolle@ro.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950816083210.1888B-100000@phoenix.phoenix.net>
Rendered body type: text/plain

William,

Don't know who told you to put data on pin 7 but it is signal ground. Use pins 2 and 3 and you should be instantly in business. For the KPC-3, the GPS NMEA output should be placed on pin 2 and if you want to try and initialize the GPS with a string from the KPC-3 you should tie the GPS command input to pin 3. However, if you have the GPS outputting NMEA sentences (and I assume you've tested this with just a generic communications program like ProComm) you only need the pin 2 connection and a ground (2 wires, it's hard to miss).

Wishing you success,

Dan Feedback, Ph.D., KJ5MX

On Wed, 16 Aug 1995, William Nolle wrote:

> Well i'm still having problems getting my Magellan NAV-5000DX to work with
> my KPC3. I think there's is someone on the Sig running this same GPS KPC3
> setup, if so i would sure like to know the way it's hookup is handled. I have
> been at this thing for several weeks now with no luck at all. The problem is
> that there's no data going into the LT buffer at all. I have tested the GPS and
> looks like it's working great. Now i fed the GPS data into the KPC3 using
> Pin#7 for the NMEA- and Pin#2 for the NMEA+. I have used several of the
> Sig user suggestions as to the KPC3 configurations with no luck at all. By the
> way i'm using version 6.0 eeprom. A friend of mine uses a Magellan Maridean
> with a KPC3 and has no problems with his, i even used his configuration.
> For some reason the KPC3 is not seeing the NMEA data from the serial port.
> Any help would be appreciated. The Sig is my last resort.
>
> Bill KE4EER
> wnolle@ro.com
>
>
>
>

256. WHICH LAPTOPS WORK W/APRS-GPS MOBILE?

From: DDOBBINS@aol.com
Date: Wed, 16 Aug 1995 14:29:53 -0400
To: aprssig@tapr.org
Message-ID: <950816142940_76243297@aol.com>
Rendered body type: text/plain

Aloha Y'all de Dave, WH6YC. I do a fair amount of mobile APRS-GPS work in areas I've visited/lived in around the country. My first and best-so-far experiences with mobile APRS have been with my Zeos Contenda subnotebook (386SL25), home built toggler, Garmin GPS, and KPC-3 TNC. My toggler was modeled using Bob/WB4APR's instructions included with APRS. After PacComm introduced their TNCs with GPS support, I bought a Handi-Packet, that neat little cigarette package-size, well-built TNC. I also bought PC's toggling cable, which runs about \$30. Nice little unit, except it never worked with my Zeos laptop. The symptoms disappear, and the unit works, when I either turn off the Handi-Packet, or remove the TNC from the loop. That's when I discovered I could go mobile APRS to do track histories without the TNC and

radio. Not as much fun though, as nobody else sees you moving around. Since mounted the KPC-3, GPS base, 30watt amp and a couple radios (one's never enuf) and a freq counter in a Halliburton briefcase. I call it "transportable", but still want the portable unit with just GPS, Handi-Packet, Radio and laptop for a truly "portable" station to work. When I upgraded my laptop to a Compaq Aero Contura (486SX33) (for \$950 at CostCo) I was hoping the voltage problem, or whatever was causing my true-portable station not to work, would be solved. It wasn't. Same problem as with the Zeos. So, after babbling on here, I have two laptops that don't work with the PacComm TNC and their toggling unit. So, here's my question (finally): Who out there has a similar config using PacComms stuff and has it working with their laptop???? AND what kind of laptop are you using? Bob/APR; and Paul/PacComm have described several poss fixes, including checking voltage that the laptops have in their serial ports with an o-scope. Sri, but I don't have one handy, but will look for some expertise to come up with those numbers. Your turn, and enjoy. Thanks, Dave.

257. NEW LAPTOP SCRUNCHES SCREEN

From: DDOBBINS@aol.com
Date: Wed, 16 Aug 1995 14:35:00 -0400
To: aprssig@tapr.org
Message-ID: <950816143331_76243310@aol.com>
Rendered body type: text/plain

Here's my second msg to the SIG in one day. Wow! Aloha de Dave, WH6YC. My new laptop, a Compaq Contura Aero (color, \$949 CostCo) works just fine, but when I run APRS the screen scrunches about 3/4 inch on top and bottom. Why? Solutions to expand it back to full size? My Zeos Contenda B&W doesn't do this. BTW, the Zeos is for sale. 386SL25, 4MB/80MB, ext disk drive, REAL SMALL and great for mobile APRS/GPS ops. Regards, Dave.

258. Magellan Trailblazer XL, nema output ?

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Wed, 16 Aug 1995 17:24:13 +0000
To: aprssig@tapr.org
Message-ID: <199508162130.RAA29855@hemisphere.neocomm.net>
Rendered body type: text/plain

Hello I am new to aprs and have greatly enjoyed watching the map on my , as yet unregistered copy of aprs72. The spots of Felex this AM was a pleasant surprise.

I briefly saw the nema output on a terminal program ,4800 , 8,n,1 ,but now I do not. I read a steady 5 volt on the nema +/- wires, . Shouldn't this output pulse when data is sent?

I removed power and battery's and did a reset, but still no data. I called Magellan and didn't get to talk to anyone nor have I gotten a reply.

I hooked nema + to DB9 pin 2 and have tried nema - on 3 and 7.

Your advice is welcome, Thank You Charles.....

p.s. my mailer destroyed the reply I recieved concerning changing a password and command for removal from list.
cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
WB4PAN@WB4Q0J.VA,USA.NOAM

259. Perseids peak

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Wed, 16 Aug 1995 17:44:32 -0500
To: aprssig@tapr.org
Message-ID: <199508162244.RAA03955@uxa.ecn.bgu.edu>
Rendered body type: text/plain

After working the Perseids shower on 2M ssb, it appears the peak was around 1800-1900z on Sat. 8/12. It will be interesting to see how this corresponds with the aprs data collected on 2m and 6m.

73, Jay..

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

260. 2M MScatt stats (7)

From: Bob Bruninga <bruninga@nadn.navy.mil>
 Date: Wed, 16 Aug 1995 19:32:26 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950816120025.28227B-100000@greatlakes>
 Rendered body type: text/plain

Here is the final report of APRS Meteor Scatter packets detected on 2 meters during the Persiads 11 to 15 Aug 1995! If this does NOT accurately reflect your report, then tell me! I still need ERP's for some of the sending stations. This will be the final posting. I will continue to update it as other bits and pieces come in, but will not flood the SIG with it again.

CONCLUSIONS:

- 1) Two meter MScat using 1200 baud AX.25 AFSK FM packets is possible and relatively automatic if a common frequency is used and packets are VERY short (typically containing a gridsquare in the TO field). Miniscule thru-put suggests only application is DX contacts.
- 2) Stations without high power and beams should LISTEN ONLY, and not add QRM to the channel.
- 3) 6 meters is an order of magnitude better, and not only could it be used as the basis for a long distance APRS position reporting, but also low thru-put traffic links could be established.
- 4) Suggest another Nationwide test (but only 24 hours long) during the December meteor shower. By then I will have added a two-way mode for confirming two-way contacts, and better flexibility in transmitter scheduling. Here is the data:

```

EFF. RADIATED PWR:  5 1      2    4 2 8 1 3    2.4  1    KILOWATTS
                    0
-----
TRANSMITTING STNS:  W W W W N K K N K W N N N N W W
                    A D B 8 3 1 E 2 B B 3 3 0 9 8 A A
                    1 0 5 R E H 4 U 4 4 A K A G A 4 4
                    Y G N Q O T E N T A D M N J J N H
RECEPTION REPORTS:  K N L Q Y V E H C P O J    J D T E    zulu
CALL  GRID  ST      N K J      R  U R      F I    DDhhmm Miles
-----
N2UNH  FN20og NJ      .      .  *      .      1    111900 744
WB4APR FM19dx MD    33      .      *      .      .    110500 373 tropo
K1HTV  FM19  MD      .      .      .      .  1      .    120728 908
N3HPR  EN92wb      .      .      .      .  1      .    111803 577 Omni!
N3QAE  FN10lw PA      .      .      .      ?      .    12  ? ? 855
N4ZXW  EM94xw NC      .      .  1      .      .    ??  ??  Omni!
KB0MDQ EN34iq MN stp .      .      ?      .      .    122304 1072 atic whip
W9YCV  Milwaukee WI .      .  1      .      .    off bk of his 4el bm
K04HD  EL97gp      .      3      .      .      .    121443 1196 Winner!
                    .      3      .      .      .    121828 1196 Omni!
KC1WC  FN24fj NY      .      .  2      .      .    121800 869 Xmt 60deg
                    .      .      .      2      .    132100 779 Xmt East
N3EOY  EN91fx Erie PA.  .      *      1      .      .    121916 306
                    180 deg @ 130'.  .      1      .      .    121943 739
WA1YKN FN41tp MA      *      .      .      4      .    121814 1188
                    .      .      .      9      .    130326 1188
                    .      .      .      3      .    140138 1068
WD0GNK EN34sb 110deg .  1      .      .      .      .    12unkn 685
                    .      1      .      .      .    12unkn 591
                    120deg .      2      .      .    130406 880
                    .      5      .      .    130431 880
                    .      .      1      .    130450 895
                    .      .      1      .    130532 895
                    .      1      .      .    130609 880
                    .      .      5      .    130634 895
                    .      .      1      .    130753 895
                    .      .      1      .    130848 895
                    .      1      .      .    131019 880
N9GJJ  EN43ix WI      .  1      .      .      *      .    120423 634
                    beaming East .  1      .      .      .    120423 539
                    .      9      .      .      .    120602 586
                    .      3      .      .    120639 820
                    .      .      .      .    120712 1075
                    .      .  6      .      .    121735 649
N0AN   EN31fx      .  1      .      .      *      .    120400 708

```

```

      .      .      2 .      .      120500 908
      .      5      1 .      .      120800 908
      1      9      .      .      120900 1188
      .      9      .      .      121000 902
      .      5      .      .      121100 902
      .      1      .      .      121200 902
      1      .      .      1 .      121800 1188
      .      .      .      9 .      121900 639
      .      .      15 .      130300 908
      .      .      11 .      130400 908
      .      .      6 .      130500 908
      .      .      4 .      130600 908
      .      1      4 .      130800 902
      .      .      18 .      130900 908
      .      .      29 .      131000 908
      .      .      1 .      131100 908
WA1LOU FN31mp .      .      .      1 .      120433 540
      .      .      .      4 .      121804 1078
      .      .      .      3 .      130323 1078
W3ADO FM19sx MD . 2 .      .      121800 965
      . 1 .      .      121900 965
      . 2 .      .      122000 965
      . 2 .      .      122100 965
      . 1 .      .      130400 965
      .      .      .      1 131700 681
      .      .      .      17 132100 681
      .      .      .      1 132300 681
      .      .      .      1 .      132300 908
WA4HEI EN65ux

```

It would be nice if someone made a scatter plot of the number of packets over the 24 hours of local time. There is also another dimension of data that could be gleaned by comparing beam headings on both XMT and rcv and misalignment losses as well as ERP and number of packets...

So we can easily see the players, I am building a MSCATT.BK file that has the locations of all participating stations. It will be posted soon.

261. Re: [APRSSIG:2831] kpc3-gps

From: moyers@ibm.net
Date: Wed, 16 Aug 95 23:14:05
To: aprssig@tapr.org
Message-ID: <9508170619.AA0420@localhost>
Rendered body type: text/plain

```

> Well i'm still having problems getting my Magellan NAV-5000DX to work with
> my KPC3. I think there's is someone on the Sig running this same GPS KPC3
> setup, if so i would sure like to know the way it's hookup is handled. I have
> been at this thing for several weeks now with no luck at all. The problem is
> that there's no data going into the LT buffer at all. I have tested the GPS and
> looks like it's working great. Now i fed the GPS data into the KPC3 using
> Pin#7 for the NMEA- and Pin#2 for the NMEA+. I have used several of the
> Sig user suggestions as to the KPC3 configurations with no luck at all. By the
> way i'm using version 6.0 eeprom. A friend of mine uses a Magellan Maridean
> with a KPC3 and has no problems with his, i even used his configuration.
> For some reason the KPC3 is not seeing the NMEA data from the serial port.
> Any help would be appreciated. The Sig is my last resort.
>

```

```

> Bill KE4EER
> wnolle@ro.com

```

Bill, I am having a similar problem with a PACCOM HANDIPACKET and a Magellan Trailblazer XL. I am suspecting a voltage problem that will be cured with a couple of biasing resistors. Bob mentioned this in the GPS.txt file in APRS. I just found the problem late this afternoon. So some time tomorrow GWYN and/or Paul at Paccom can expect a phone call for help. That is if the biasing doesn't correct it.

73 will let you know how it goes

John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

262. APRS Locking up

From: wnolle@ro.com (William Nolle)
Date: Thu, 17 Aug 1995 00:09:52
To: aprssig@tapr.org
Message-ID: <199508170517.AAA31746@sh1.ro.com>
Rendered body type: text/plain

Bob APRS is locking up my computer solid after no activity for about 15 minutes, you asked me to give you the error code, but how can i do that when the system is locked up and only a hard reboot will get it running again?. At first i thought it may be my new 90Mhz Pentium but APRS is the only software that will do it!, and like i said it only does it when there is no keyboard input for an extended period (15 - 20) minutes. I hope there's an answer for this problem.

Bill KE4EER
wnolle@ro.com

263. Re: [APRSSIG:2834] NEW LAPTOP SCRUNCHES SCREEN

From: lbutler@awod.com (Larry Butler)
Date: Thu, 17 Aug 1995 10:24:31 -0400
To: aprssig@tapr.org
Message-ID: <199508171424.KAA01389@sumter.awod.com>
Rendered body type: text/plain

I know that the Leading Edge laptop, a 386SX machine, at AA4IX does the same thing.
Maybe Bob can find out why. All the other software runs just fine on it in "expanded" LCD mode. My Austin Direct VGA 386SX/33 laptop does not have this malady. My Sharp PC-6220 old 286 notebook runs fine also. Wonder what's going on?
73, Larry KN4IM/GATE/WIDE Your APRS connection to the SC LowCountry.

>Here's my second msg to the SIG in one day. Wow! Aloha de Dave, WH6YC. My new
>laptop, a Compaq Contura Aero (color, \$949 CostCo) works just fine, but when
>I run APRS the screen scrunches about 3/4 inch on top and bottom. Why?
>Solutions to expand it back to full size? My Zeos Contenda B&W doesn't do
>this. BTW, the Zeos is for sale. 386SL25, 4MB/80MB, ext disk drive, REAL
>SMALL and great for mobile APRS/GPS ops. Regards, Dave.
>
>

264. Re: [APRSSIG:2833] WHICH LAPTOPS WORK W/APRS-GPS MOBILE?

From: lbutler@awod.com (Larry Butler)
Date: Thu, 17 Aug 1995 10:26:47 -0400
To: aprssig@tapr.org
Message-ID: <199508171426.KAA01457@sumter.awod.com>
Rendered body type: text/plain

>Aloha Y'all de Dave, WH6YC. I do a fair amount of mobile APRS-GPS work in
>areas I've visited/lived in around the country. My first and best-so-far
>
My AUSTIN DIRECT 386/33 notebook has TWO serial ports, no outside box needed. All you do to energize the external 2nd port is to unplug the internal 14.4kb modem which hogs the port if its plug mates with the mainframe from a hardware switch that must be in the modem.

Good computer, VERY BRIGHT MONOCHROME LCD THAT CAN BE SEEN IN THE SUN!
73, LARRY KN4IM/GATE/WIDE

265. Re: [APRSSIG:2833] WHICH LAPTOPS WORK W/APRS-GPS MOBILE?

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Thu, 17 Aug 95 10:08:52 UTC
To: aprssig@tapr.org
Message-ID: <3611@paccomm.com>
Rendered body type: text/plain

PacComm's plan to move beyond the APRS Port Switch for mobile APRS.

Bob (APR) has been able to get an amazing amount of performance out of what was available in the marketplace. Laptops with one serial port, TNC's with one serial port etc. PacComm's APRS Port Switch is a unit built from APR's readme file so the no-solder set could overcome the single port problem. We (and Bob) have had to make several circuit changes to get the units to work with various combinations of computers and TNCs. In my opinion, the thing has performed quite well considering it was a 'back of the envelope' design. We have looked at using a more positive digital circuit rather than twiddling with bias levels on transistors, but our emphasis has been on moving past the problem, i.e. the 2 serial port PicoPacket.

We have had our problems getting the Pico into production, but if it was easy, there would be more than 4-5 packet manufacturers, right? The Pico with 2 serial ports works as follows. Some of the code features I'm describing are not yet released, but all have been coded and are at least

to the debug stage.

The GPS hooks to one serial port full time. The computer connects to the other serial port full time. When the computer wants GPS output, it asks the TNC for the latest reading and the Pico passes it along.

Capabilities of the Pico 2nd serial port GPS firmware. Field names may change in the production release.

Send an initialization string to the GPS at power on.
Specify and buffer up to four different GPS strings in Pico memory.
Dump any of these buffered NMEA strings to the computer when commanded.
Beacon one or more of the buffered strings to an UNPROTO address which is different than the BEACON address.
Accept four alias callsigns. MYALIAS, MY1ALIAS, MY2ALIAS, MY3ALIAS.
Capture GPS output strings (selectable) into PMS messages for later download. Strings to be included, timing (frequency of storage of data string) and number of entries in each message to be specified.
A method to switch the Pico function between being a 'tracker' and attaching to an APRS computer, e.g. if you unplug the computer it automatically goes into tracker function if it is enabled.
Some flexible methods to download the PMS position history logs. Will do autoforward to a BBS, or you can connect to the PMS and read the HST messages, or there will be a method for UI polling and perhaps a timed transmission.
Not on the final list yet: Ability to hook a GPS and a weather station or other device to the Pico at the same time, i.e. the computer port and the 2nd serial port will both be in GPS (or telemetry) mode and no computer is supported. So as a 'tracker' you can tell where your boat is, and also the weather conditions.
Obviously the HST function can be used with a weather station instead of with a GPS. So you can capture wx readings each n minutes and download the history some time later.
Not sure if I remembered it all, but at least you can see that there will be no need for a hardware port switch.

In the mean time, I'm happy to take tech support mail about the APRS port switch either on this forum or privately as you deem appropriate.

73,
Gwyn

Gwyn Reedy, WIBEL gwyn@paccomm.com WIBEL@amsat.org

+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

266. Re: [APRSSIG:2833] WHICH LAPTOPS WORK W/APRS-GPS MOBILE?

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Thu, 17 Aug 1995 09:37:13 -0500
To: aprssig@tapr.org
Message-ID: <199508171504.KAA17490@psycfrnd.interaccess.com>
Rendered body type: text/plain

>Who out their has a similar config using PacComms stuff and has it >working
with their laptop????? AND what kind of laptop are you using?

>
My .02 worth

Ive set up several systems with the PAC-COM GPS/TNC interface and here is what I've found.

Works:

Pac-Com Tiny2 with GridPad M-1910 and external keyboard (8088)
" Toshiba T-1100+ (8086)
" Compac LTE (8086)
" Zenith Supersport (80286)
" Gateway (80486)

I have also played around with many "clone" desk tops and they all worked with the interface and Pac-Com TNCs, but change to another TNC and you get no data on GPS line, even when the pins are right. Thinking that maybe its the DB9 to DB25 plug (Pac-Com uses a DB9 for serial input, most other TNCs use a DB25) I made up a connector to pass data, still no go.

I suspect that the PacCom interface likes the PacCom TNCs only. When I set up a system for someone and they need everything I tell them to go with PacCom, if the have an MFJ, KPC-3 or other taper clone we build Bob's

interface. If its an AEA product I run, <GRIN>, by the way anyone on SIG have any experience with the AEA splitter?

Ed
N9LCI

267. Mail failure

From: lbutler@awod.com (Larry Butler)
Date: Thu, 17 Aug 1995 11:41:54 -0400
To: aprssig@tapr.org
Message-ID: <199508171541.LAA03574@sumter.awod.com>
Rendered body type: text/plain

>>Aloha Y'all de Dave, WH6YC. I do a fair amount of mobile APRS-GPS work in
>>areas I've visited/lived in around the country. My first and best-so-far
>>
>My AUSTIN DIRECT 386/33 notebook has TWO serial ports, no outside box needed.
>All you do to energize the external 2nd port is to unplug the internal 14.4kb
>modem which hogs the port if its plug mates with the mainframe from a hardware
>switch that must be in the modem.
>
>Good computer, VERY BRIGHT MONOCHROME LCD THAT CAN BE SEEN IN THE SUN!
>73, LARRY KN4IM/GATE/WIDE
>
>
>

268. Fwd:OTC 08/10 0948 NEW RTK FM BROADCAST SERVICE LAUNCHED

From: Bill=Thomassen%BusinessAffairs%CCC@banyan.cccd.edu (by way of
mmunster@qualcomm.com (Marvin Munster x5388))
Date: Thu, 17 Aug 1995 08:59:09 -0700
To: aprssig@tapr.org
Message-ID: <v02110107ac591785f24e@[129.46.12.181]>
Rendered body type: text/plain

Here is something of interest for all of you DGPS fans.
Marvin - WB6PKK

Subject: OTC 08/10 0948 NEW RTK FM BROADCAST SERVICE LAUNCHED

OTC 08/10 0948 NEW RTK FM BROADCAST SERVICE LAUNCHED

SANTA CLARA, Calif., Aug. 10 /PRNewswire/ -- ACCQPOINT Communications Corp. today announced that the company will activate its new high-precision DGPS service on Sept. 30, 1995. The new service called RTK FM(TM) will deliver decimeter accuracies in the top 40 markets in North America and Asia. RTK FM(TM) broadcasts in the Trimble CMR2 format as well as a RTCM format.

For more than two years, ACCQPOINT has been offering real-time DGPS with a 1 meter accuracy over the FM subcarrier paging network of some 500 FM stations operated by CUE Network Corp., ACCQPOINT's parent. The network covers over 95 percent of the population of Canada and the United States. Today, the 1 meter service is provided in over 150 markets in North America.

Gordon Kaiser, chairman and chief executive officer of ACCQPOINT, stated, "RTK FM(TM) is a major innovation in real-time Differential GPS service. For the first time, RTK data is available on a public subscription basis."

The RTK FM(TM) service uses a proprietary subcarrier technology to broadcast carrier phase data over the 67 kHz subcarrier at 9600 bps.

ACCQPOINT also announced a new Affiliate Program which provides that an exclusive marketing partner will be appointed in each market where the RTK FM(TM) service is offered. Affiliates will also market the company's existing 1 meter service on a nonexclusive basis.

Kaiser added, "We believe it is important to offer a complete range of products. RTK FM(TM) is targeted specifically for the survey market. While the 1 meter service meets the requirements of the GIS market at low prices, there is a growing need for higher accuracies and this service meets a real gap in the marketplace."

In addition to DGPS, the CUE network is used to provide nationwide and regional messaging throughout North America to over 120,000 subscribers. The company's nationwide messaging services are distributed by leading telephone companies such as AT&T Wireless, Bell South (MobileComm), Cincinnati Bell and MetroMedia.

CUE also uses FM subcarrier to distribute real-time, route-specific traffic information. On April 14, 1994, CUE, in conjunction with TRW, was awarded a grant from the Federal Highway Administration to install a system to distribute real-time traffic information between San Francisco and Reno, Nevada. The TrafficAlert service is also provided in

conjunction with "GeoFinder for Windows," a digital map product recently introduced by Thomas Bros. Maps of Irvine, Calif.

Through CUE Southeast Asia (CSEA), a joint venture based in Singapore, CUE is establishing both international paging and DGPS services in Singapore, Thailand, Indonesia, Malaysia and The Philippines. CSEA was awarded the first license in Asia to provide commercial DGPS services in February. CSEA is a joint venture between CUE and the National Trade Union Congress (NTUC), a federation of trade unions in Singapore. NTUC operates Radio Heart, Singapore's first private radio station, in addition to a fleet of over 7,500 taxis, the country's largest insurance company and the largest supermarket chain in the country.

-0- 8/10/95 /CONTACT: Jean Turner of
ACCQPOINT Communications, 800-982-5861/
CO: ACCQPOINT Communications Corp.; CUE Network Corp. ST: California
IN: TLS SU: PDT

269. Extra serial ports

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 17 Aug 1995 11:06:07 -0500
To: aprssig@tapr.org
Message-ID: <v01520d02ac59185c6c2c@[199.1.11.122]>
Rendered body type: text/plain

Extra serial port for mobile computer GPS/APRS users.

I have a solution to the problem of only having one serial port.
This will work for both IBM and Macintosh portable computers

If your computer can use a PCMCIA card or you can add a
PCMCIA adapter to your system read on:

SOCKET Communications makes a PCMCIA type II Serial I/O adapter
that uses a high speed UART16550 230 Kbps

I ordered the unit from the PC side of MAC-ZONE (PC-ZONE)
Part number P19936 Socket PCMCIA Serial I/O adapter cost \$135.98

Now we can forget the push button and strange HST Cable and
have both a GPS and APRS TNC port. Just get two units and also
connect your weather or what ever.

Note to Mac users:
The PCMCIA serial card works fine with MacAPRS and any other
communications aware communications program. I just shoved the card
in and the Communications tool box saw it as a "serial tool" device
called "Lower Card Slot" .
(I used the lower slot - there is room for two cards)

Note to Dos/Windows users.
The PC disk included with the unit has direct enablers so after reading the
45 page installation booklet you will have Plug-and-Pray also.

I did not ask about the OEM versions that have TTL I/O, dual-port or
extra power output to drive a peripheral.

They also have a GPS PCMCIA card that uses the Trimble TSIP protocol.
I only saw this at "Mobile World" and have not used it.

73

Bob kc5ejk@onramp.net

270. Magellan Trailblazer XL, nema output

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 17 Aug 1995 11:07:58 -0500
To: aprssig@tapr.org
Message-ID: <v01520d01ac590cd5b6d4@[199.1.11.122]>
Rendered body type: text/plain

>I hooked nema + to DB9 pin 2 and have tried nema - on 3 and 7.
=====

There have been several posts about the Magellan Trailblazer
NMEA + and NMEA - and which wire goes to what. Someone with this unit
needs to speak up. Then we can add it to the GPS interface FAQ.

My Garmin-45 unit has the two wires used as send and receive but you need
to use the power ground wire as the data ground.

I don't think you are to use Nmea- as ground.

A true RS-422 will have a rec+ and a rec- and a xmit+ and a xmit-

This is the way a Mac serial port works.

A Mac RS-232 cable just has a ground jumper to the rec+ and uses the rec- as "Good old" RS-232 pin 3. RS-232 pin 2 is the xmit-. The xmit+ is left floating.

That ground jumper inside most Mac RS-232 cables is why Mac GPS users need to use a direct cable to the round 8 pin din socket.

Bob kc5ejk@onramp.net

271. WHICH LAPTOPS WORK W/APRS-GPS MOBILE?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 17 Aug 1995 11:17:36 -0500
To: aprssig@tapr.org
Message-ID: <v01520d03ac591af608c1@[199.1.11.104]>
Rendered body type: text/plain

See my posting about how to add an extra one or two serial ports to a laptop that can use PCMCIA cards. It looks like the future Macintosh and PC portable's will have built in PCMCIA slots.

Bob kc5ejk@onramp.net

272. Re: [APRSSIG:2845] Fwd:OTC 08/10 0948 NEW RTK FM BROADCAST SERVICE LAUNCHED

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 17 Aug 1995 11:34:45 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508171634.LAA27051@solar.cs.tamu.edu>
Rendered body type: text/plain

I'd point out here that most of the smaller GPS products, even those using DGPS capable receivers, are not RTK-capable.

RTK is a fine-precision (sub-meter) protocol that is encompassed in the RTCM SC-104 protocols, but is not one of the standard Type-1 or Type-2 sentences most handhelds and less expensive receivers will deal with.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

273. Mouse

From: thomas koutsis <sftomg4@frog.thpl.lib.fl.us>
Date: Thu, 17 Aug 1995 16:03:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.90.950817155130.5103A-100000@frog>
Rendered body type: text/plain

Hello Bob,

My name is Tom and I am using a shareware version of aprs72b which I downloaded off a local bbs. I am sending you this message for myself and 2 others, one who is registered (KK4BZ). We are all having problems getting the mouse to work with the program. On my computer which is IBM pc compatible 386sx-16 with 2 com ports. I have my tnc on com2 and I'm selecting com1 for the mouse. When I get into the program I am getting erratic behavior such as the Zoom window and the slightest movement of the mouse and all kinds of maps come up when not selected. I have a Logitech mouse series 9. It is installed in com port 1. Do you have any suggestions as how to correct this. By the way Carl KK4BZ asked me to send this message because he has no access to the Internet and thought this would be the faster route. Thanking you in advance.
Tom...WD2Z

*****THOMAS KOUTSIS*****

2012 THORNBUSH PLACE

*****BRANDON, FL 33511*****

INTERNET: sftomg4@frog.thpl.lib.fl.us

274. Magellan 2000

From: "Sadowski, P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
 Date: Thu, 17 Aug 95 12:39:00 cdt
 To: aprssig <aprssig@tapr.org>
 Message-ID: <303381B5@mailgtwy.nellis.af.mil>
 Rendered body type: text/plain

Just saw one of these advertised for \$199.... yep..under \$200... anyway,
 does anyone know if it has NMEA output??

Aloha
 Al
 AH6LS
 sadowskp@usafcrqs.nellis.af.mil

275. APRS Frequencies for 6M

From: Richard Garcia <p015139b@pbfreenet.seflin.lib.fl.us>
 Date: Thu, 17 Aug 1995 17:17:07 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.3.89.9508171753.B6671-0100000@pbfreenet.seflin.lib.fl.us>
 Rendered body type: text/plain

I recently saw a sig message about possible APRS frequencies for 6 meters
 does someone have the suggestions. I have lost the message and am waiting
 for a 110W commercial EPROM programable radio to be delivered. If I can
 get the frequencies I will have them burned into the EPROM before I take
 delivery. I have about 2-3 open slots (36 CH radio) left after all the
 local repeaters, simplex, and confirmed DX repeaters are added to the list.
 If I get the frequencies quickly (tonight or Friday) I may be on 6M APRS
 by next weekend.

73 de Rich Garcia N2CZF/4
Packet Address: N2CZF@WB4MOZ.#WPBFL.FL.USA
Internet Mail : p015139b@pbfreenet.seflin.lib.fl.us
"UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR"
LATITUDE : 2654.86N LONGITUDE : 8014.48W
Jupiter Farms Florida
HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79

276. Re: [APRSSIG:2851] Magellan 2000

From: bottmgun@emi.net
 Date: Thu, 17 Aug 1995 17:24:25 -0400
 To: aprssig@tapr.org
 Message-ID: <199508172133.RAA17155@athens.emi.net>
 Rendered body type: text/plain

I called Magellan yesterday concerning the GPS-2000, the unit DOES NOT have
 a NMEA port. I immediately thanked them and hung up!
 R/Jay

>
 >
 >Just saw one of these advertised for \$199.... yep..under \$200... anyway,
 >does anyone know if it has NMEA output??
 >
 >Aloha
 >Al
 >AH6LS
 >sadowskp@usafcrqs.nellis.af.mil
 >
 >

277. Re: [APRSSIG:2834] NEW LAPTOP SCRUNCHES SCREEN

From: rwf <rwf@mindspring.com>
 Date: Thu, 17 Aug 1995 17:37:47 -0400
 To: aprssig@tapr.org
 Message-ID: <199508172137.RAA09513@dylan.mindspring.com>
 Rendered body type: text/plain

, but when
 >I run APRS the screen scrunches about 3/4 inch on top and bottom. Why?
 >Solutions to expand it back to full size? My Zeos Contenda B&W doesn't do

Bil KE4EER had this problem too on a few laptops he was looking at. Someone found the solution and posted it, but I can't remember who. Seems it had to do with a windows driver or similar issue

Ralph

278. Re: [APRSSIG:2833] WHICH LAPTOPS WORK W/APRS-GPS MOBILE?

From: rwf <rwf@mindspring.com>
Date: Thu, 17 Aug 1995 17:37:44 -0400
To: aprssig@tapr.org
Message-ID: <199508172137.RAA09502@dylan.mindspring.com>
Rendered body type: text/plain

Dave-

Dontcha at least have a meter? Ck voltage on pin 6 of the laptop's 9 pin serial port with respect to ground. I can't remember if pin 7 is ground on the 9 pin, so better ck that.

Paccomm's circuit needs that voltage to work. Their later cables jumper pin 6 on that port to pin 6 on the TNC connector so you can grab voltage either place. However that will not work either, with a KPC3

I have exactly the same setup, and this is what I did.

Add a wire from the paccomm circuit board in their switcher. It goes from the place that is currently connected to pin 6 on the laptop over to pin 25 on the KPC3. Make the mod in the KPC 3 that allows powering the tnc from pin 25. Power the TNC normally. Pin 25 will now SUPPLY power to the paccom board for you.

I know this works. My ammo-box portable is wired this way. Boy do I get stares when carrying it on the planes!

Ralph Fowler
Atlanta
N4NEQ

279. Re: [APRSSIG:2843] Re: WHICH LAPTOPS WORK W/APRS-GPS MOBILE?

From: rwf <rwf@mindspring.com>
Date: Thu, 17 Aug 1995 17:37:48 -0400
To: aprssig@tapr.org
Message-ID: <199508172137.RAA09533@dylan.mindspring.com>
Rendered body type: text/plain

At 10:50 AM 8/17/95 -0500, you wrote:
>>Who out their has a similar config using PacComms stuff and has it >working
>with their laptop???? AND what kind of laptop are you using?
>>
>My .02 worth
>
>Ive set up several systems with the PAC-COM GPS/TNC interface and here is
>what I've found.
>
>Works:
>Pac-Com Tiny2 with GridPad M-1910 and external keyboard (8088)
> " Toshiba T-1100+ (8086)
> " Compac LTE (8086)
> " Zenith Supersport (80286)
> " Gateway (80486)
>
>I have also played around with many "clone" desk tops and they all worked
>with the interface and Pac-Com TNCs, but change to another TNC and you get
>no data on GPS line, even when the pins are right. Thinking that maybe its
>the DB9 to DB25 plug (Pac-Com uses a DB9 for serial input, most other TNCs
>use a DB25) I made up a connector to pass data, still no go.
>
>I suspect that the PacCom interface likes the PacCom TNCs only. When I set
>up a system for someone and they need everything I tell them to go with
>PacCom, if the have an MFJ, KPC-3 or other taper clone we build Bob's
>interface. If its an AEA product I run, <GRIN>, by the way anyone on SIG
>have any experience with the AEA splitter?
>
>Ed
>N9LCI
>

>
>

Probably the same problem as Dave. The switchen needs power to run! Get power to pin 6 of the laptop connector. The Paccomm switcher will work just fine. I don't really think bias levels or gps data levels are your problem.

Ralph

280. Re: [APRSSIG:2838] Re: kpc3-gps

From: rwf <rwf@mindspring.com>
Date: Thu, 17 Aug 1995 17:42:03 -0400
To: aprssig@tapr.org
Message-ID: <199508172142.RAA10852@dylan.mindspring.com>
Rendered body type: text/plain

I noticed a new Magellan for sale: the 2000. It is 199.95 at West Marine. Looks like it was meant to be a "Garmin GPS 40 Killer". Sorry, Magellan-next time put NMEA on it!

I talked to Magellan engineers today- no NMEA! They do have another low cost one in development. It will have NMEA and will be cheap as well. They still plan to use a dtrange proprietary data connector though

Ralph
N4NEQ

281. Re: [APRSSIG:2850] Mouse

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 17 Aug 1995 18:10:47 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950817180856.21715A@greatlakes>
Rendered body type: text/plain

On Thu, 17 Aug 1995, thomas koutsis wrote:

> myself and 2 others, one who is registered (KK4BZ). We are all having
> problems getting the mouse to work with the program. On my computer
> ...
> movement of the mouse and all kinds of maps come up when not selected. I
> have a Logitech mouse series 9. It is installed in com port 1....

APR REPLY: APRS only understands a MICROSOFT SERIAL MOUSE.

282. Magellan 5000

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Thu, 17 Aug 95 13:51:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <303396D9@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

I have one of the OLD (original) Magellan 5000's and don't have the pinout for power, data, external antenna. Without paying the \$\$\$ that Magellan wants for their power, data, antenna cable... does anyone here have the pinout and voltage info? I'd sure appreciate knowing it.... as the manual with the unit gives NO info on the topic.

Thanks in advance
AL AH6LS
sadowskp@usafcrqs.nellis.af.mil

283. Re: [APRSSIG:2852] APRS Frequencies for 6M

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 17 Aug 1995 18:16:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950817181325.21715B-100000@greatlakes>
Rendered body type: text/plain

On Thu, 17 Aug 1995, Richard Garcia wrote:

>
> I recently saw a sig message about possible APRS frequencies for 6 meters
> does someone have the suggestions. I have lost the message and am waiting

APR REPLY: NO ONE ever sent back any comments, nor any copies of any other local band plans. So we picked 50.62 for the meteor shower. I'd say go with that since that's all we got at this point....

(although there are the \$9 FSK boards crystaled on 50.675 that I just ordered today to see if there is any use for them... SO if you wanna put a second one in, then do that one tooo...

284. portable GPS trackers

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 17 Aug 1995 17:27:27 -0500
To: aprssig@tapr.org
Cc: rwf@mindspring.com
Message-ID: <v01520d01ac597040128f@[199.1.11.147]>
Rendered body type: text/plain

> rwf
> My ammo-box portable is wired this way. Boy do I get
> stares when carrying it on the planes!

My portable tracker looks like an old police call box and with the rubber duck test antenna sticking out, like a road side call box. I got the black plastic case at "The Container Store"

We need to get some GIF picture files of the different tracker designs posted for the APRSSIG users to see.

I had some good results using the tracker and APRS at the Solar Car race in Dallas a few weeks ago. I am a bit behind in posting the results and tracking data to the APRSSIG.

Bob

kc5ejk@onramp.net

285. Magellan Trailblazer XL

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Thu, 17 Aug 1995 19:09:52 +0000
To: aprssig@tapr.org
Message-ID: <199508180308.XAA07059@hemisphere.neocomm.net>
Rendered body type: text/plain

Hello;

I talked to Magellan today. Here is there recomendation for connecting the gps unit to a pc, DB-9 connector using the optional data cable.

orange wire nmea (+) to DB-9 pin # 2
brown wire nmea (-) to DB-9 pin # 5

If you wish to make your own data cable for the 6 pin connector on the back of the trailblazer...

With the gps unit upright the top pin is # 1, the bottom pin is # 6.

The nmea (+) is pin # 2 (referred to as orange above)
The nmea (-) is pin #5 (referred to as brown above)

I tried mine with a PCjr, Compact lite notebook, and Pentium-90 and still got no data. Magellaqn suggested I send the unit in for warrenty service. Expected turn around time 7 to 14 days

Aprs72 registration is in the mail !

Charles

cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
WB4PAN@WB4Q0J.VA.USA.NOAM

286. QSLing for MScat

From: ETHOLMEN@aol.com
Date: Thu, 17 Aug 1995 19:44:01 -0400
To: aprssig@tapr.org
Message-ID: <950817194400_56946175@emout04.mail.aol.com>
Rendered body type: text/plain

HI,

How are QSLs to be handled for the MScat contacts seeing that they are mostly a one way connection?

Gene, N9GJJ

287. FW: Mail failure

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Thu, 17 Aug 95 16:04:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <3033B114@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

I have one of the OLD (original) Magellan 5000's and don't have the pinout for power, data, external antenna. Without paying the \$\$\$ that Magellan wants for their power, data, antenna cable... does anyone here have the pinout and voltage info? I'd sure appreciate knowing it.... as the manual with the unit gives NO info on the topic.

Thanks in advance

Al AH6LS

sadowskp@usafcrqs.nellis.af.mil

288. Cheap GPS

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Thu, 17 Aug 95 16:05:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <3033B36E@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Just saw one of these (Magellan 2000) advertised for \$199....
yep..under \$200... anyway, does anyone know if it has NMEA output??

Aloha

Al

AH6LS

sadowskp@usafcrqs.nellis.af.mil

289. Re: [APRSSIG:2848] WHICH LAPTOPS WORK W/APRS-GPS MOBILE?

From: quarry@q.continuum.net (Chip Griffin)
Date: Thu, 17 Aug 1995 21:46:46 -0400
To: aprssig@tapr.org
Message-ID: <v01520d04ac5998ce9ec9@[199.0.52.69]>
Rendered body type: text/plain

>See my posting about how to add an extra one or two serial ports
>to a laptop that can use PCMCIA cards. It looks like the future
>Macintosh and PC portable's will have built in PCMCIA slots.

The Macintosh Powerbook 520/520c/540/540c all have two battery slots, one of which can be sacrificed for a PCMCIA (PC Card) adapter. The adapter will allow the use of two type II or one type III cards. I am told there are devices out there which when plugged in to the PCMCIA slot turn it into an additional serial port, but I have been unable to find a Mac compatible one yet. Additionally that route would be expensive, the adapter originally retailed for ~\$200 (no idea of current prices), and the PCMCIA card must be a couple hundred more ... I am ordering a Pico w/ second serial port which will be a much cheaper solution and just as effective.

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

<http://q.continuum.net/~quarry/>

290. Re: [APRSSIG:2851] Magellan 2000

From: quarry@q.continuum.net (Chip Griffin)
Date: Thu, 17 Aug 1995 21:46:54 -0400
To: aprssig@tapr.org
Message-ID: <v01520d06ac599a0ae901@[199.0.52.69]>
Rendered body type: text/plain

>Just saw one of these advertised for \$199.... yep..under \$200... anyway,
>does anyone know if it has NMEA output??

Saw one at Boater's World the other day. No NMEA output. Simplistic display. A little cruder than the Garmin 40 or 45. Probably well worth the extra cent buck for the Garmin (probably 45 over 40).

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

```
-----+-----  
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)  
griffge@nu.com         | Chip@1:320/301.0 or .1 (fido)  
emmet2@aol.com         |
```

<http://q.continuum.net/~quarry/>

291. Re: [APRSSIG:2851] Magellan 2000

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Thu, 17 Aug 1995 21:58:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.950817215733.23062A-100000@laraby.tiac.net>
Rendered body type: text/plain

>
> Just saw one of these advertised for \$199.... yep..under \$200... anyway,
> does anyone know if it has NMEA output??
>
> Aloha
> Al
> AH6LS

I just got a catalog with the same unit, for the same price. Am VERY interested in knowing more about this unit.

>From the catalog picture it does not appear that this unit has external antenna capability, but don't know for sure.

73

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

292. Re: [APRSSIG:2831] kpc3-gps

From: moyers@ibm.net
Date: Thu, 17 Aug 95 22:53:04
To: aprssig@tapr.org
Message-ID: <9508180555.AA0446@slip37-69.il.us.ibm.net>
Rendered body type: text/plain

> > looks like it's working great. Now i fed the GPS data into the KPC3 using
> > Pin#7 for the NMEA- and Pin#2 for the NMEA+. I have used several of the

Bill, I have corrected the same problem in my setup with a quick phone call to Paccom, actually after my discussion with them I don't know why I didn't see the problem on my own. Like you I had the NEMA + wired to Pin 2 and NEMA to Pin 5 on the DB-9. This is correct since I want the gps to talk to the computer most of the time and this configures the GPS as a modem to the computer. So since the GPS and TNC are both modem type devices you have to use a null modem adapter to get them to talk to each other. In essence all the adapter does is switch pin 2 and 3 around on each end. That being the case I opened the DB-9 case at the computer end of the NEMA cable and Installed a SPDT switch. Center (wiper) pin of the switch to NEMA + and the other 2 poles of the switch to pins 2 and 3 , respectively, of the DB-9.

```
                /-----o PIN 2  
NMEA + -----/-----o PIN 3   OF DB-9
```

By doing this I can now hook the GPS up to either the HSP cable I made or staight to the back of the TNC, and i flip the switch to the correct pin.

73 de
John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

293. More MScat data needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 17 Aug 1995 23:19:45 -0400 (EDT)
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.950817231055.22471H-100000@greatlakes>
Rendered body type: text/plain

On Thu, 17 Aug 1995, Tony Drumm wrote:
> First, not all the stations heard were listed in the left
> column. Do you have their grid squares? ...
>
> Second, do you know which of the HEARD stns were running attended
> (with many packets in a row) and which were
> unattended (like our WD0GNK station, sending packets only
> every 10s or so) when they were heard
>
> Third, why there were no stations to the west participating?
>
> It will help the next time if we have some idea of where the
> participants will be. Do you think we might coordinate beam
> headings in some way? I don't want to spend all night at

APR REPLY: Good point. I will be adding that data to the top of the
page if those stations that TRANSMITTED and were heard WOULD SEND IT TO ME!
I have the GRIDS, but need the transmit periodicity: I see three options:
1) APRS AUTOMATIC
2) TNC BEACONS ONLY (about every 10 secs)
3) OPERATOR with finger fatigue!

Y0u saw no western statinos cuz check your 1200 mile radius. Even IOWA
cannot see California on MScatt..

294. Error 5

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Thu, 17 Aug 1995 22:34:54 -0600
To: aprssig@tapr.org
Message-ID: <9508172234.AA54401@oscar.tbr.state.tn.us>
Rendered body type: text/plain

I have loaded APRS 7.2d and have tried to get it to run on my 386SX-16 with a
mono (amber) monitor. I get a message:

```
***  
LM,PM:  0      0  
a,I,J,K,fdx,LDx:  3 0 0 0 0 0  
X,Y,X1,Y1 0 0 0 0  
A$  
c$  
E$$  
ooops! ERR number 5  Hit Enter to Return to DOS
```

Any sugestions in what is wrong and how to correct it?

TIA

Bruce

295. PacComm HSP and TRACKERS!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 17 Aug 1995 23:38:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950817232527.22471J-100000@greatlakes>
Rendered body type: text/plain

Moyers reminded us all of the OBVIOUS first mistake MOST of us have made
with the PacComm HSP adapter. Remember the HSP switch is a Y type of
device that allows both the GPS and TNC to send data INTO the PC.

====

Unfortunately because of similar sex DB-9's, when you decide to go
STAND-ALONE-TRACKER it appears that you can just unplug the GPS from the
adapter and just plug it into the TNC. WRONG!

You gotta swap pins 2 and 3...

You see, PacComm assumed you would have the GPS DB-9 wired to match
your PC. So when you insert the HSP circuit in the middle, there
is no change. But that was before Stand-alone-trackers.

Now with the GPS usually being connected either to the HSP or TNC
and rarely into the PC, you might consider wiring the GPS to match the
TNC connector and reversing the pins on the HSP pigtail. Then you can go

between HSP and Stand alone tracker just by moving the GPS cable. But then you have to remember to swap 2 and 3 with a null modem cable when ever you wanna plug the GPS directly into the PC. SO there you have it. YOu can have 2 out of 3, but never have all three match in any configuration...

296. Re: [APRSSIG:2871] Error 5

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Fri, 18 Aug 1995 00:09:11 -0400
To: aprssig@tapr.org
Message-ID: <199508180409.AAA22503@dylan.mindspring.com>
Rendered body type: text/plain

A

>I have loaded APRS 7.2d and have tried to get it to run on my 386SX-16 with a
>mono (amber) monitor. I get a message:
>
>

This same problem bugged me for 2 days.
I deleted my cfigxx.apr file in my root directory. That got me running.
Never had this problem in other upgrades, though

Ralph
N4NEQ

297. Re: [APRSSIG:2870] More MScat data needed

From: Ann Reeves <annr@comtch.iea.com>
Date: Thu, 17 Aug 1995 21:32:10 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.950817213007.28798B-100000@comtch>
Rendered body type: text/plain

> On Thu, 17 Aug 1995, Tony Drumm wrote:
> >
> > Third, why there were no stations to the west participating?
>

We were on in Spokane,WA listening and xmitting. Heard NO ONE at all.
Not even Calif or Colorado.

298. Error #5

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 18 Aug 1995 00:36:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950818003423.22771C-100000@greatlakes>
Rendered body type: text/plain

On Thu, 17 Aug 1995, Bruce W. Martin wrote:

>
> I have loaded APRS 7.2d and have tried to get it to run on my 386SX-16 with a
> mono (amber) monitor. I get a message:
> ES\$
> ooops! ERR number 5 Hit Enter to Return to DOS

On START UP, this always means your VIDEO card is not standard VGA, CGA
or EGA. Ie, a hercules or some other non-standard video mode...

299. KPC3 problem

From: wnolle@ro.com (William Nolle)
Date: Fri, 18 Aug 1995 00:53:45
To: aprssig@tapr.org
Message-ID: <199508180601.BAA26190@sh1.ro.com>
Rendered body type: text/plain

Well to keep you posted on my GPS to KPC3 problem.
I contacted Kantronics several times and they don't have a clue as to
my problem, So i called Magellan and guess what (Right not a clue)!.
If there is anyone on the Sig that is running a Magellan NAV5000DX to a
KPC3 i would sure like to hear from you. I even wen't out and Bought another
one of those stupid KPC3's figuring there may have been something wrong
with it according to the Kantronics Tech support ;-) and it doesn't work with
that one either. So i'm lost folks.Here is my latest.

I checked the Magellan's output voltage and it's 2.1 volts!
I hooked it to a terminal program and it puts out all the NMEA strings!

I hook the NMEA + to Pin2 of the KPC3 DB25 connector!
I hook the NMEA - to pin7 of the KPC3 DB25 connector!

Now i set my KPC3 as follows:

```
BLT 1 EVERY 00:00:30
GPSHEAD 1 $GPGGA
LTP 1 APRS VIA KE4EER-5,WIDE
BEACON E 2
BTEXT {>} MOBILE GPS
UNPROTO APRS VIA KE4EER-5,WIDE,WIDE
MYCALL KE4EER-2
PBBS 0
MYREMOTE KE4EER-13
RTEXT LOVE MY APRS
INTFACE GPS
```

Simple setup so why don't i see any data in the LT buffer?.

Like i said sure would like to contact someone running a Magellan NAV5000DX to a KPC3. I have at one time run this setup to a Paccomm Tiny-2 and it worked. But now i have build this compact realy nice looking portable tracker using a KPC3 and it won't work. I hate to have to rebuild the whole setup using a Paccomm Tiny-2 if i don't have to. Everyone both at Kantronics and Magellan tell me it should work (But it doesn't).

Any help to get me tracking would be appreciated!.

Bill KE4EER
wnolle@ro.com

300. Re: [APRSSIG:2876] KPC3 problem

From: kcSejk@onramp.net (Robert Winingham)
Date: Fri, 18 Aug 1995 02:09:36 -0500
To: aprssig@tapr.org
Cc: wnolle@ro.com (William Nolle)
Message-ID: <v01520d00ac59e2d2ec49@[199.1.11.154]>
Rendered body type: text/plain

>Well to keep you posted on my GPS to KPC3 problem.
>I contacted Kantronics several times and they don't have a clue as to
>my problem, So i called Magellan and guess what (Right not a clue)!.
>If there is anyone on the Sig that is running a Magellan NAV5000DX to a
>KPC3 i would sure like to hear from you. I even wen't out and Bought another
>one of those stupid KPC3's figuring there may have been something wrong
>with it according to the Kantronics Tech support ;-) and it doesn't work with
>that one either. So i'm lost folks.Here is my latest.
>
>I checked the Magellan's output voltage and it's 2.1 volts!
>I hooked it to a terminal program and it puts out all the NMEA strings!
>I hook the NMEA + to Pin2 of the KPC3 DB25 connector!
>I hook the NMEA - to pin7 of the KPC3 DB25 connector!

page 2 of the KPC-3 GPS addendum may offer a clue.

1. Some vendors use TTL levels +5 to 0
2. Some use inverted (true TTL)
3. You may need a TTL-to-RS-232 line driver

Was the 2.1 V, when data was being sent ??
Do see what the peak is with a scope.
Could be a low supply voltage to the Magellan NAV5000DX

I had to use a line driver to make the Garmin-45 drive a RS-232 Mac cable.
(But if I had tried a RS-422 direct cable it would have worked)

A line drive is no big deal there have been 4 circuit designs posted here.

1. Op-amp (but it needs +- 15 Volts) Radio shack part
2. RS-232 line driver (but it needs +- 15 Volts)
Radio shack part 276-2520
3. MAX-232 RS-232 line driver (5 volts only)
but needs a few caps for a voltage pump (makes its own +-)
4. MAX-233 The new MAX chip needs almost no support parts and

runs on 5 volts.
Dallas semiconductor has a replacement for both MAX chips.
TSC232 and SP233

I cheated and used my Icom radio CT-17 communications interface level converter box for testing as a TTL to RS-232 as it uses a max-232 chip. If your TTL level is inverted you will need to run the signal through the chip twice or use a hex inverter.

You problem could be only a weak signal that needs a little boost. I have two KPC-3 and like them.

Don't forget to set CD to software, if you use a radio to xmit the gps data, a high level of RF noise can keep the tnc from transmitting. I do wish the TNC had a state-machine like my PK-96.

Bob kc5ejk@onramp.net

301. Re: [APRSSIG:2872] PacComm HSP and TRACKERS!

From: "Daniel Feeback <KJ5MX>" <feedback@phoenix.phoenix.net>
Date: Fri, 18 Aug 1995 03:33:29 -0500 (CDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950818033213.8990A-100000@phoenix.phoenix.net>
Rendered body type: text/plain

Well said, Professor Bob.

I have a small Rad Shack 9-pin to 9-pin null modem adaptor that I use just for that purpose.

Dan, KJ5MX

On Thu, 17 Aug 1995, Bob Bruninga wrote:

> Moyers reminded us all of the OBVIOUS first mistake MOST of us have made
> with the PacComm HSP adapter. Remember the HSP switch is a Y type of
> device that allows both the GPS and TNC to send data INTO the PC.
> ====
>
> Unfortunately because of similar sex DB-9's, when you decide to go
> STAND-ALONE-TRACKER it appears that you can just unplug the GPS from the
> adapter and just plug it into the TNC. WRONG!
>
> You gotta swap pins 2 and 3...
>
> You see, PacComm assumed you would have the GPS DB-9 wired to match
> your PC. So when you insert the HSP circuit in the middle, there
> is no change. But that was before Stand-alone-trackers.
>
> Now with the GPS usually being connected either to the HSP or TNC
> and rarely into the PC, you might consider wiring the GPS to match the
> TNC connector and reversing the pins on the HSP pigtail. Then you can go
> between HSP and Stand alone tracker just by moving the GPS cable. But
> then you have to remember to swap 2 and 3 with a null modem cable when
> ever you wanna plug the GPS directly into the PC. SO there you have it.
> Y0u can have 2 out of 3, but never have all three match in any
> configuration...
>

302. Re: [APRSSIG:2875] Error #5

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Fri, 18 Aug 1995 07:36:50 -0600
To: aprssig@tapr.org
Message-ID: <9508180736.AA50092@oscar.tbr.state.tn.us>
Rendered body type: text/plain

> On Thu, 17 Aug 1995, Bruce W. Martin wrote:
> >
> > I have loaded APRS 7.2d and have tried to get it to run on
> > my 386SX-16 with a mono (amber) monitor. I get a message:
> > ES\$
> > ooops! ERR number 5 Hit Enter to Return to DOS
>
> On START UP, this always means your VIDEO card is not standard VGA, CGA
> or EGA. Ie, a hercules or some other non-standard video mode...
>
>

I finally figured this must be the problem about 1am this morning. Guess I'll have to get some better video if I want to put this box on APRS.

Thanks for your help and confirmation,

Bruce

303. Re: Magellan/KPC3 problem

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 18 Aug 1995 08:37:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950818083113.24575A-100000@greatlakes>
Rendered body type: text/plain

On Fri, 18 Aug 1995, William Nolle wrote:

> Well to keep you posted on my GPS to KPC3 problem.
> I checked the Magellan's output voltage and it's 2.1 volts!
> I hooked it to a terminal program and it puts out all the NMEA strings!
> I hook the NMEA + to Pin2 of the KPC3 DB25 connector!
> I hook the NMEA - to pin7 of the KPC3 DB25 connector!

Did you try the two resistors mentioned in my DOCS? NMEA is NOT RS-232 compatible necessarily. I don't think the Magellan NMEA has any negative voltage swing, so the two resistors that I always use provide a little negative bias. Yes, it works as is with your PC, because that particular PC just happens to not care too much about the negative transistions, but the TNC serial port looks like it does require it...

Lemme know if that helps (look in my GPS.txt).

304. Re: [APRSSIG:2876] KPC3 problem

From: rkramer@vaxxine.com (Ronald Kramer)
Date: Fri, 18 Aug 1995 08:55:08 -0400
To: aprssig@tapr.org
Message-ID: <9508181255.AA00449@alpha.vaxxine.com>
Rendered body type: text/plain

>Well to keep you posted on my GPS to KPC3 problem.

>If there is anyone on the Sig that is running a Magellan NAV5000DX to a
>KPC3 i would sure like to hear from you. I even wen't out and Bought another
>one of those stupid KPC3's figuring there may have been something wrong

>Now i set my KPC3 as follows:

>
>BLT 1 EVERY 00:00:30
>GPSHEAD 1 \$GPGGA
>LTP 1 APRS VIA KE4EER-5,WIDE
>BEACON E 2
>BTEXT {>} MOBILE GPS
>UNPROTO APRS VIA KE4EER-5,WIDE,WIDE
>MYCALL KE4EER-2
>PBBS 0
>MYREMOTE KE4EER-13
>RTEXT LOVE MY APRS
>INTERFACE GPS
>

>Simple setup so why don't i see any data in the LT buffer?.

>
as I see the above set up of the KPC3 I notice that you have PBBS 0
the lt buffer is in the PBBS
so you need it set to at least 5
also you have to specify what you want it to save
read page four of kpc-3 manual addendum for kpc3
you must also set
LTRACK 5 LT1
to save 5k of LT1 tracks....
to see these you must connect to the pbbs
and download them with the ltr command
P.S. do not use sysop mode from remote to read the LT buffer.
Hope this fixes your problem

Regards, Ron ... 73 de Ron
Internet: rkramer@vaxxine.com (Ron Kramer)
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

305. Re: [APRSSIG:2876] KPC3 problem

From: Dick Mead <mead@skat.usc.edu>
Date: Fri, 18 Aug 95 9:53:15 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.808764795.mead@hamal.usc.edu>
Rendered body type: text/plain

> Well to keep you posted on my GPS to KPC3 problem.
> I contacted Kantronics several times and they don't have a clue as to
> my problem, So i called Magellan and guess what (Right not a clue)!.
> If there is anyone on the Sig that is running a Magellan NAV5000DX to a
> KPC3 i would sure like to hear from you. I even wen't out and Bought another
> one of those stupid KPC3's figuring there may have been something wrong
> with it according to the Kantronics Tech support ;-) and it doesn't work with
> that one either. So i'm lost folks. Here is my latest.
>
> I checked the Magellan's output voltage and it's 2.1 volts!
> I hooked it to a terminal program and it puts out all the NMEA strings!
> I hook the NMEA + to Pin2 of the KPC3 DB25 connector!
> I hook the NMEA - to pin7 of the KPC3 DB25 connector!
>
> Now i set my KPC3 as follows:
>
> BLT 1 EVERY 00:00:30
> GPSHEAD 1 \$GPGLA
> LTP 1 APRS VIA KE4EER-5,WIDE
> BEACON E 2
> BTEXT {>} MOBILE GPS
> UNPROTO APRS VIA KE4EER-5,WIDE,WIDE
> MYCALL KE4EER-2
> PBBS 0
> MYREMOTE KE4EER-13
> RTEXT LOVE MY APRS
> INTERFACE GPS
>
> Simple setup so why don't i see any data in the LT buffer?.
>
> Like i said sure would like to contact someone running a Magellan
> NAV5000DX to a KPC3. I have at one time run this setup to a Paccomm
> Tiny-2 and it worked. But now i have build this compact realy nice looking
> portable tracker using a KPC3 and it won't work. I hate to have to rebuild
> the whole setup using a Paccomm Tiny-2 if i don't have to. Everyone both
> at Kantronics and Magellan tell me it should work (But it doesn't).
>
> Any help to get me tracking would be appreciated!.
>
> Bill KE4EER
> wnolle@ro.com
>
>
>
>

You really need to look at the GPS output with a scope. The data out should swing from at least +3v to at least -3v for many serial ports to recognize it. I know there are exceptions, since many PC ports will accept a 0v to +5v swing. Many Macs won't. The KPC may or may not, I don't have one to test. But since you can see data with a PC, I suspect this may be an explanation. Getting around it depends on whether its the absolute voltage or the polarity swing that may be affecting you. My \$.02... Good luck

Dick WB6NGC

306. Re: [APRSSIG:2876] KPC3 problem

From: Dick Mead <mead@skat.usc.edu>
Date: Fri, 18 Aug 95 9:57:48 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.808765068.mead@hamal.usc.edu>
Rendered body type: text/plain

I might also add, I hope you double checked that pins 2 & 3 just don't need to be swapped... an afterthought...

Dick

307. MScatter MAP

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 18 Aug 1995 13:47:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950818134354.1673A-100000@greatlakes>
Rendered body type: text/plain

I just posted to tapr/SIG/aprssig/upload the file mscatter.bk which is a backup file shwoing all the MScatter reports on the map for visual reference. It was FTP'ed in text mode. When loaded, hit (T)raffic command to see a few comments...

308. Re: [APRSSIG:2839] APRS Locking up

From: "Samuel T. Nabkey" <wj8t@w8dc.ampr.org>
Date: Fri, 18 Aug 95 14:56:43 UTC
To: aprssig@tapr.org
Message-ID: <41228@w8dc.ampr.org>
Rendered body type: text/plain

Hello Bill (KE4EER)

Had the same grief here with my Pentium 75. Found it to be the silly power saving setup in the BIOS. (You know, the GREEN stuff!) I had to shut it all off....

Maybe that is your Lockup trouble?

Hmmmm

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X                      Samuel T. Nabkey - WJ8T                      X
X                      -----                      X
X                      wj8t@w8dc.ampr.org                      X
X                      wj8t@hamgate44.gvsu.edu                    X
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

309. IRC CHAT CHANNEL

From: lbutler@awod.com (Larry Butler)
Date: Fri, 18 Aug 1995 14:59:02 -0400
To: aprssig@tapr.org
Message-ID: <199508181859.OAA12329@sumter.awod.com>
Rendered body type: text/plain

I finally got my IRC chat mode up and running and had a lot of activity last night on a channel I created on cs-pub.bu.edu called #hamradio. At least I think I started something as it wasn't on the list of channels I got back, one never knows...(sigh). Anyways, we had worldwide coverage from as far away as VK4EII and some Europeans. There was quite a bit of ham interest about APRS as they have all been seeing APRS in the tnc ads but have not experienced it. They seemed mostly afraid of either looking stupid on the air or not knowing where the software could be obtained. I told them about ftp.tapr.org. I put a bln1 on the HF APRS and had a few connects from that! Why do I not see and APRS channel on IRC? There were a lot of "silent watchers" checking into #hamradio, some with calls, some not. They all had broken typing fingers as we never saw a word from them. I suspect my conversations with the guys might have given more hams and non-hams ideas. I told one guy, who has a scanner and tnc, to download APRS then use his scanner on 145.79. We have a lot of "non-ham users" on APRS here in Charleston with scanners tuned to my WIDE. I met one at RadioShack just today!

Well, I propose that we all get together for coffee and non-fat donuts on #hamradio around 00Z until if you have time. Lots of guys had trouble staying connected from other IRC providers, I only lost my link once. It seemed MUCH better if you use cs-pub.bu.edu directly to the #hamradio channel. The bots were jumping in and out something fierce trying to stay connected from elsewhere. Hope to see the aprssig guys on the channel later...73, Larry KN4IM/GATE/WIDE Your LowCountry APRS connection.

310. Re: [APRSSIG:2885] Re: APRS Locking up

From: lbutler@awod.com (Larry Butler)
Date: Fri, 18 Aug 1995 15:00:38 -0400
To: aprssig@tapr.org
Message-ID: <199508181900.PAA12406@sumter.awod.com>
Rendered body type: text/plain

>Hello Bill (KE4EER)
>Had the same grief here with my Pentium 75. Found it to be the silly
>power saving setup in the BIOS. (You know, the GREEN stuff!) I had to
>shut it all off....
>
>Maybe that is your Lockup trouble?
>

Thanks, Sam! I had same trouble! Glad someone fixed it..73, Larry KN4IM

311. Re: [APRSSIG:2868] Re: Magellan 2000

From: quarry@q.continuum.net (Chip Griffin)
Date: Fri, 18 Aug 1995 16:14:47 -0400
To: aprssig@tapr.org
Message-ID: <v01520d06ac5aa3ed6111@[199.0.52.54]>
Rendered body type: text/plain

>>From the catalog picture it does not appear that this unit has external
>antenna capability, but don't know for sure.

>From handling it in hand ... no way.

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@nlokk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

<http://q.continuum.net/~quarry/>

312. Re: [APRSSIG:2865] Cheap GPS

From: quarry@q.continuum.net (Chip Griffin)
Date: Fri, 18 Aug 1995 16:14:50 -0400
To: aprssig@tapr.org
Message-ID: <v01520d07ac5aa4186b4a@[199.0.52.54]>
Rendered body type: text/plain

>Just saw one of these (Magellan 2000) advertised for \$199...
>yep..under \$200... anyway, does anyone know if it has NMEA output??

Yes. No it doesn't!

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@nlokk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

<http://q.continuum.net/~quarry/>

313. Re: [APRSSIG:2886] IRC CHAT CHANNEL

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Date: Fri, 18 Aug 1995 15:45:24 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508182045.PAA23806@crasher2.ttgciitn.com>
Rendered body type: text/plain

Larry Butler splattered this onto /dev/hda4:
> Well, I propose that we all get together for coffee and non-fat donuts on
> #hamradio
> around 00Z until if you have time. Lots of guys had trouble staying
> connected from
> other IRC providers, I only lost my link once. It seemed MUCH better if you use
> cs-pub.bu.edu directly to the #hamradio channel. The bots were jumping in
[...]

I mainly use Undernet, which is more reliable, has better protocol (tired of
getting dumped? nickcollided? channel takeovers?), etc, etc.

If you'd like more info, try server undernet.org (which will get you to a
random server), and then track me down (HoopyCat) :-)

IRC is a really neat way to get tech support, and all that other neat stuff.
Enjoy :-)

```
--
=====
===  Ryan Tucker, your local TTGCITN Communications Blametaker (tm)  ===
===  rtucker@ttgciitn.com  http://www.netins.net/showcase/rtucker  ===
=====
```

314. " CORRECTION "Re: [APRSSIG:2862] Magellan Trailblazer XL

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 18 Aug 1995 18:11:59 +0000
To: aprssig@tapr.org
Message-ID: <199508182211.SAA21491@hemisphere.neocomm.net>
Rendered body type: text/plain

Date: Thu, 17 Aug 1995 18:12:46 -0500
Reply-to: aprssig@tapr.org
From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
To: aprssig@tapr.org
Subject: [APRSSIG:2862] Magellan Trailblazer XL

Hello;

I talked to Magellan today. Here is there recomendation for connecting the gps unit to a pc, DB-9 connector using the optional data cable.

orange wire nmea (+) to DB-9 pin # 2
brown wire nmea (-) to DB-9 pin # 5

If you wish to make your own data cable for the 6 pin connector on the back of the trailblazer...

With the gps unit upright the top pin is # 1, the bottom pin is # 6.

** this line incorrect** The nmea (+) is pin # 2 (referred to as orange above)
The nmea (-) is pin #5 (referred to as brown above)

The correct pins for the Magellan 6 pin plug are as follows.
pin # 3 is NMEA +
pin # 5 is NMEA -

Sorry for the mistake....c wd

Charles

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4Q0J.VA.USA.NOAM

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4Q0J.VA.USA.NOAM

315. Airmobile tracking

From: wnolle@ro.com (William Nolle)
Date: Fri, 18 Aug 1995 18:47:58
To: aprssig@tapr.org
Message-ID: <199508182355.SAA27600@sh1.ro.com>
Rendered body type: text/plain

Today i tracked Ralph N4NEQ-9 on his way to the Huntsville hamfest from Atlanta, this was the most spectacular site i have seen on APRS so far and i have been using it for a long time. I tracked him and we where keyboarding at the same time, but to follow him and look at it with the 3D function over very detailed 1:100,000 maps is something to behold!. The best part was the actual landing. I have a detailed map of the airport and could actually see him land and taxi down the runway. I took a guess at his altitude at one point and was only off by 50 or so feet. By the way also tracked him right trough town right to the Hilton parking lot (In his car of course hi). Knowing Ralph it's a wonder he didn't drive the plane trough town.

Bill KE4EER
wnolle@ro.com

316. RE: [APRSSIG:2892] Airmobile tracking

From: Don Marsh <iim1djm@iim.ups.com>
Date: Fri, 18 Aug 95 17:23:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <30352F8D@billgate>
Rendered body type: text/plain

Bill- What is the 3D function and what does it look like?
Regards, Don Marsh WB4YXI
iim1djm@iim.ups.com

From: aprssig
To: aprssig
Subject: [APRSSIG:2892] Airmobile tracking
Date: Friday, August 18, 1995 6:50PM

Today i tracked Ralph N4NEQ-9 on his way to the Huntsville hamfest from Atlanta, this was the most spectacular site i have seen on APRS so far and i have been using it for a long time. I tracked him and we where keyboarding at the same time, but to follow him and look at it with the 3D function over very detailed 1:100,000 maps is something to behold!. The best part was the actual landing. I have a detailed map of the airport and could actually see him land and taxi down the runway. I took a guess at his altitude at one point and was only off by 50 or so feet. By the way also tracked him right trough town right to the Hilton parking lot (In his car of course hi). Knowing Ralph it's a wonder he didn't drive the plane trough town.

Bill KE4EER
wnolle@ro.com

317. NORTH TEXAS BALLOON Launch

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 18 Aug 1995 22:22:24 -0500
To: aprssig@tapr.org
Message-ID: <v01520d00ac5b06d20481@[199.1.11.110]>
Rendered body type: text/plain

Sample GPS data for tomorrows Texas Balloon launch 19 Aug 1995

W5SJZ-6>CQ: <<UI>>:
THE LOCKHEED & ROCKWELL ARCS PRESENT
THE NORTH TEXAS BALLOON PROJECT MISSION # 7
TWO CROSSBAND FM REPEATERS ACTIVE ON
#1 UP 147.450, DOWN 445.850 MHz
#2 UP 147.570, DOWN 445.970 MHz
LIVE ONBOARD ATV ON 439.250 MHz (VERTICAL)

W5SJZ-6>CQ: <<UI>>:
08-20-1995 17:57:12 UTC
ALTITUDE = 982 FEET
LATITUDE = N. 32x 57' 04"
LONGITUDE = W. 96x 40' 48"
VELOCITY = 0.00 MPH, BEARING 0 DEG.
0 DEG.
VELOCITY UP = 0 FEET / MINUTE

W5SJZ-6>CQ: <<UI>>:
ch0, 3013, INSIDE TEMP. = 28.01 DEG C.
ch1, 2994, OUTSIDE TEMP. = 26.02 DEG C.
ch2, 403, BARO ALTITUDE = 52805 FT.
ch3, 2938, MAIN BATTERY = 8.814 VDC
ch4, 2632, ATV BATTERY = 13.160 VDC
ch5, 1629, SUM BATTERY = 8.145 VDC

W5SJZ-6>CQ: <<UI>>:
PLEASE ATTEMPT NO DIGIPEATING TO THIS STATION
QSL VIA KG5OA 2517 COLDSTREAM DR.
FT. WORTH, TEXAS 76123
MAKE RECEPTION REPORTS ON 7.155 MHz
NEXT TELEMETRY IN ONE MINUTE
HAVE A NICE DAY YA'll...

I just got the data format today and if I get the conversion porgram working I am going to try to re send balloon data in APRS format on 145.790 in the Dallas Area. I don't know if out Dallas HF gateway will be working

but several states in the South should get the balloon packet.

Bob kc5ejk@onramp.net

BALLOON LAUNCH ANNOUNCEMENT
THE NORTH TEXAS BALLOON PROJECT, MISSION # 7

The North Texas balloon project will launch its seventh high altitude balloon experiment carrying amateur radio payloads on the 19th of August, 1995. The payload carries a variety of radios and instruments that can be easily used by any amateur with a Technician's license or above.

The launch will be from Clifton, Texas (located 30 miles west of Hillsboro) at approximately 9:30 AM. In the event of inclement weather, the launch will be delayed to the next day, and then to the next Saturday (the 26th). There will be a pre-launch net at 8:30 PM on the Ft.Worth 146.76 repeater the evening before the launch. The morning of launch there will be an HF net on 7.155 MHz +/- QRM. The Net control station will probably be W5IU.

Approximately two hours after launch, the balloon is expected to reach an altitude of 95,000 feet before burst. At this altitude the area of visibility will be about 370 miles in any direction for a total 740 mile communications range. In past missions, there have been QSO's between Corpus Christi, TX and Salina, Kansas.

The following is a list of the available experiments onboard:

Two Crossband FM Voice Repeaters:

There will be two crossband FM repeaters open to all.
Uplink #1 147.450 MHz Downlink #1 445.850 MHz
Uplink #2 147.570 MHz Downlink #2 445.970 MHz

Packet Telemetry on 144.290 MHz:

This GPS and telemetry information will be the data downlink (downlink ONLY) of the mission. The packet format is the common 1200 baud AFSK found in all TNC's. The data will be presented in an easy to read format with no conversions required and is NOT in APRS format. Packet digipeating and packet connects to the package will NOT be possible.

GPS:

Precise longitude, latitude and altitude data will be provided by a donated Rockwell NavCore V GPS receiver. The following data will be measured and can be seen on the 144.290 MHz packet downlink:

* UTC day and time	* Longitude	* Latitude
* Altitude	* Bearing	* Ground Velocity
* Velocity up		

Telemetry:

There will be an onboard 12 bit, 8 channel Analog to Digital converter. Six of the eight channels are used to measure the following:

* Inside Temperature	* Outside Temperature
* Barometric Altitude	* Main Battery Voltage
* ATV Battery Voltage	* Summed Battery Voltage

Amateur Television (ATV)

There will be a live, full motion, Amateur Television camera and 10 Watt transmitter onboard. The downlink frequency will be 439.250 MHz VERTICALLY Polarized. This frequency was chosen to exactly correspond to Cable channel # 60. With a 440 MHz beam and reasonable Low Noise Amplifier, a cable ready TV tuned to Cable channel 60 should be able to receive an acceptable signal. The camera will be remotely pointed via ground command to any of 256 possible positions.

Other Innovations On NTBP #7

Active package stabilization:

....Remotely controlled air foils to cancel package spin.

Power distribution:

....Non essential equipment turned off after touchdown and batteries summed to provide power to essential DF'ing beacons.

Audio Distribution

....Ground commands allow audio from crossband repeaters, packet

downlink, or command uplink to be piped through ATV audio.
Improved Parachute/Tow line
....New spreader ring design, swivels and woven tow line should help
ensure that parachute does not tangle.

QSL's can be had through KG50A via the Callbook address.

318. creating maps

From: ljs@west.net (L.J.Shepherd)
Date: Fri, 18 Aug 1995 22:19:27 -0700
To: aprssig@tapr.org
Message-ID: <199508190520.WAA13783@acme.sb.west.net>
Rendered body type: text/plain

Hello Group:

I'm just getting started with aprs and am interested to learn how one obtains or creates maps for the area of interest. I live on the California coastline and would like to begin by utilizing maps of this general area. Is there a text available, or perhaps a .doc file somewhere that can introduce me to this topic ? Thanks very much.....Jim K6OYY
Santa Barbara

319. Re: [APRSSIG:2863] QSLing for MScat

From: schiers@ibm.net (hasan schiers)
Date: Fri, 18 Aug 95 23:01:30 EDT
To: aprssig@tapr.org
Message-ID: <199508191403.OAA52640@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Thu, 17 Aug 1995 19:04:24 -0500 you wrote:

>HI,
>
>How are QSLs to be handled for the MScat contacts seeing that they are mostly
>a one way connection?
>
>Gene, N9GJJ

I am sending QSL cards to anyone I received indicating I received them, but not that we had a 2 way. Just a nice way to commemorate the experiment.

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

320. North Texas Balloon Launch

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 19 Aug 1995 11:48:06 -0500
To: aprssig@tapr.org
Cc: amsat-bb@AMSAT.Org
Message-ID: <v01520d00ac5bc47b94f7@[199.1.11.150]>
Rendered body type: text/plain

The launch of the North Texas Balloon Project was scrubbed for today
This From the 40 M net. No Re-launch time set. A CPU system battery problem.

More information later from Doug KG50A

Bob Dallas -- Kc5ejk@amsat.org

321. Re: [APRSSIG:2834] NEW LAPTOP SCRUNCHES SCREEN

From: Richard Garcia <p015139b@pbfree.net.seflin.lib.fl.us>
Date: Sat, 19 Aug 1995 12:55:11 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9508191224.A5274-0100000@pbfree.net.seflin.lib.fl.us>
Rendered body type: text/plain

Hello I saw your message and am just about to take a trip back north and would really like to run APRS with a notebook on the way. I have everything else but my old notebook has a pair of dead batteries that cost \$125 each! and the DC adapter is no longer made. I have little time to make my decision so any prompt words of wisdom would be appreciated! I really hate spending the \$\$ now but since I do not plan a trip this long anytime soon I guess the smart thing would be to buy it now instead of 2 months from now AFTER the trip.

```
|
|                                     73 de Rich Garcia N2CZF/4
|
|Packet Address:                     N2CZF@WB4MOZ.#WPBFL.FL.USA
|Internet Mail :                     p015139b@pbfree.net.seflin.lib.fl.us
|                                     "UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR"
|                                     LATITUDE : 2654.86N      LONGITUDE : 8014.48W
|                                     Jupiter Farms Florida
|                                     HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79
|
```

On Thu, 17 Aug 1995 DDOBBINS@aol.com wrote:

> Here's my second msg to the SIG in one day. Wow! Aloha de Dave, WH6YC. My new
> laptop, a Compaq Contura Aero (color, \$949 CostCo) works just fine, but when
> I run APRS the screen scrunches about 3/4 inch on top and bottom. Why?
> Solutions to expand it back to full size? My Zeos Contenda B&W doesn't do
> this. BTW, the Zeos is for sale. 386SL25, 4MB/80MB, ext disk drive, REAL
> SMALL and great for mobile APRS/GPS ops. Regards, Dave.
>

322. Got it.

From: wnolle@ro.com (William Nolle)
Date: Sat, 19 Aug 1995 11:58:10
To: aprssig@tapr.org
Message-ID: <199508191703.MAA16059@sh1.ro.com>
Rendered body type: text/plain

Got your message Rob, didn't make the hamfest but will make your
Unofficial dinner abt 8:00pm i hope this still holds so i don't make
the trip for nothing, will have to break some fingers. Thanks Rob.

Bill KE4EER
wnolle@ro.com

323. Re: [APRSSIG:2860] Re: APRS Frequencies for 6M

From: Richard Garcia <p015139b@pbfree.net.seflin.lib.fl.us>
Date: Sat, 19 Aug 1995 13:21:33 -0400 (EDT)
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9508191358.B7088-0100000@pbfree.net.seflin.lib.fl.us>
Rendered body type: text/plain

I will include BOTH frequencies in my UNIDEN trunk mount "power monster".
I have had my friend hold up on the EPROM so I will not be up on 6m till'
after the wedding trip.
Have figured that my ETA to NJ is 1 day earlier than my reservations so I
plan to "kill some time" in your area. If you are available on the 26th
let me know either here or u can call (407) 745-2404 after 5pm weekdays.
Weekends call whenever you like, I'll always be happy to hear from you no
matter what time it is. If you are not ava. on the 26 I will try to make
it to the Goddard SFC for a tour and try to meet with you on the 4th or
5th. Planing to stay in Arlington on the way back for 2 days of visiting
DC. What repeaters do you suggest in your area ? I may have a laptop for
the APRS trip, going to Costco and may take the plunge for one of the
Compaq AERO Color jobs. Wife will be happy when she can get the 486/66
back from APRS work!

```
|
|                                     73 de Rich Garcia N2CZF/4
|
|Packet Address:                     N2CZF@WB4MOZ.#WPBFL.FL.USA
|Internet Mail :                     p015139b@pbfree.net.seflin.lib.fl.us
|                                     "UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR"
|                                     LATITUDE : 2654.86N      LONGITUDE : 8014.48W
|                                     Jupiter Farms Florida
|                                     HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79
|
```

324. Heathkit WX Station

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 19 Aug 95 14:58:43 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.808858723.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

I have had requests from a few people to support the Heathkit 5001 weather station. The people that requested this were nice enough to also supply enough documentation to enable me to start writing the code for this unit.

This code is being written for MacAPRS, and should be in beta-test within a couple weeks. Unfortunately, I do not have a Heathkit station..

Is there anyone out there that has one of these that would be able to either loan it to me for a while or would be willing to sell it cheap??

The reason I can't borrow the ones from the people that want this is that their units are in constant use..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

325. APRS on LAPTOPS!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 19 Aug 1995 18:26:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950819182052.7948A-100000@greatlakes>
Rendered body type: text/plain

Since most stores will NOT let you load any software on to a PC in the store for fear of virusus, here is all you need to do to test ANY PC for APRS. Since QBasic comes with DOS since 5.0, the PC should have it. Run this program.

```
SCREEN 9
LINE (1,1)-(639,349),14,B
```

That will draw a box around the edge of the APRS screen area. That is the size of the APRS map. If you are not happy with the size and shape of the box, then move to another laptop.

By the way, after you enter that BASIC program, to run it, just hit F5.

326. NTBP#7 Launch Scrubbed

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 19 Aug 1995 17:40:02 -0500
To: aprssig@tapr.org
Message-ID: <v01520d00ac5c18704eae@[199.1.11.136]>
Rendered body type: text/plain

>From: Doug Howard <dhoward@metronet.com>
>Subject: NTBP#7 Launch Scrubbed
>To: amsat-bb@amsat.org
>Date: Sat, 19 Aug 1995 15:46:10 -0500 (CDT)
>Mime-Version: 1.0

>
> NORTH TEXAS BALLOON PROJECT
> MISSION #7 LAUNCH SCRUBBED
>
> 19 August 1995
>

>The North Texas Balloon Project scrubbed the launch of Mission #7
>this morning at 11:30 a.m. after experiencing a morning filled
>with troubles. Numerous problems were had preparing the payload
>for flight, and by 11:30 a.m. thunderstorms were approaching the
>launch site. Therefore, the participating members of the Lockheed
>and Rockwell radio clubs decided to wait for a better day to
>launch Mission #7.

>
>During launch preparations, it was evident that the payload was
>not performing correctly when using the flight batteries. The
>onboard computer kept getting reset during peak current draw from
>the flight batteries. The reset was not a clean reset, and the
>result was that the computer would not come back online in a
>known condition. Many times it would simply get lost and not
>react to ground commands. However, this problem did not occur
>using the external test battery, even though it was generally the
>same current and amp-hour rating. Therefore, we suspect that this
>is probably an EMI problem in the power system due to the flight
>batteries having a higher source impedance than the external test

>batteries.
>
>In any case, this was a problem that was obviously not going to
>be resolved in the field. The nature of the problem was such that
>the loss of the payload became a distinct possibility. The
>equipment in our payload is valued at several thousand dollars,
>and an untold number of manhours went into it's construction.
>These factors, along with the closing weather, drove us to cancel
>this morning's launch shortly before noon local time.
>
>We have not set another launch date as yet. However, the delay is
>expected to be at least 3 to 4 weeks. Further bulletins regarding
>a new launch date will be forthcoming as we identify and correct
>the woes of our payload.
>
>73,
>Doug Howard - KG50A
>NTBP Coordinator
>

327. Re: [APRSSIG:2886] IRC CHAT CHANNEL

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Sat, 19 Aug 1995 19:38:56 -0400
To: aprssig@tapr.org
Message-ID: <199508192338.TAA16610@dylan.mindspring.com>
Rendered body type: text/plain

At 02:04 PM 8/18/95 -0500, you wrote:
>I finally got my IRC chat mode up and running and had a lot of activity last
>night on a channel I created on cs-pub.bu.edu called #hamradio. At least I
>think
>

I was there. I spoke numerous times, to you and others- but no one
answered. The stupid bots (3 I think) were the most active things there. I
think I was on an ALL-BOT channel! :)

#hamradio is not really a friendly place in my opinion. I suggest #ham-aprs

Ralph
N4NEQ

328. Re: [APRSSIG:2904] Re: IRC CHAT CHANNEL

From: lbutler@awod.com (Larry Butler)
Date: Sat, 19 Aug 1995 20:55:02 -0400
To: aprssig@tapr.org
Message-ID: <199508200055.UAA16254@sumter.awod.com>
Rendered body type: text/plain

>At 02:04 PM 8/18/95 -0500, you wrote:
>>I finally got my IRC chat mode up and running and had a lot of activity last
>>night on a channel I created on cs-pub.bu.edu called #hamradio. At least I
>>think
>>

>
>I was there. I spoke numerous times, to you and others- but no one
>answered. The stupid bots (3 I think) were the most active things there. I
>think I was on an ALL-BOT channel! :)
>

>#hamradio is not really a friendly place in my opinion. I suggest #ham-aprs

Do you think we'll have enough people? It would be nice to have an aprs
irc. I'm
all for it. As to the bots. I logon to cs-pub.bu.edu here and have NO PROBLEMS
except when someone at awod zapped the plug on the mainframe...hee hee. They
went down last night late so I went to bed...I'll look for #ham-aprs in the
future.
CU there! 73, Larry

329. Re: [APRSSIG:2615] Meteor Scatter APRS

From: wharrell@cris.com
Date: Sat, 19 Aug 1995 21:59:28 -0400
To: aprssig@tapr.org
Message-ID: <199508200159.VAA24024@deathstar.cris.com>
Rendered body type: text/plain

Hello Bob,
I have a favor to ask, I'm needing to have the messages

about the results of the meteor scatter on 2 and 6 meters sent to my email address. The fellas here are interested in reading the messages, and me server lost the scatter messages which I had left in a directory on the system while upgrading their server.

I learned my lesson, but lost the files you had listed the stations who participated and were either heard or heard someone. I plan to use these comments about final results on the test in our packet column in the club newsletter here.
Thanks for your help...

73 de Wayne....

330. LORAN for sale

From: calldrin@sierra.net (Chuck Alldrin)
Date: Sat, 19 Aug 1995 22:48:09 -0700
To: aprssig@tapr.org
Message-ID: <199508200548.AA18859@diamond.sierra.net>
Rendered body type: text/plain

I saw this on our local BBS and thought it would a good idea to post it on the sig.

73 Chuck Alldrin

>From : N6UMN
To : SALE@ALLCA
Type/status : BF
Date/time : 15-Aug 16:23
BID (MID) : 10047_KE6LW
Message # : 2557
Title : APRS
Thanks for taking the time to read this..
I have for sale a Ray Jefferson Loran C..
Model PL-99..Telescopic antenna..Mobil mount..
Base mount antenna bracket and cable..Wall charger..
Manual..Great shape as the fellow I bought it from
never used it..Neither did I..Just didnt get into
the mode..Selling for \$130 firm, you ship..Respond
this BBS or call 916-895-1509..Thanks and 73..
Don--N6UMN--Chico, CA..

331. Got dropped from the sig Friday night!

From: KSwaggart@aol.com
Date: Sun, 20 Aug 1995 10:59:08 -0400
To: aprssig@tapr.org
Message-ID: <950820105907_78888646@mail02.mail.aol.com>
Rendered body type: text/plain
subscribe

332. Garmin 45 programs @ ftp.tapr.org

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Sun, 20 Aug 1995 10:46:33 -0500
To: aprssig@tapr.org
Message-ID: <199508201545.KAA29616@sys1.tapr.org>
Rendered body type: text/plain

I thought since so many folks use the garmin 45 that no one would mind if I uploded some software for it on the tapr ftp site. The files are located in ftp.tapr.org /tapr/SIG/aprssig/upload/garmin.

I'd uploded gardown7 before I thought of creating the garmin directory, but all othe files plus and index will be on the path given.

barrettd (^-^)

333. Computers for sale

From: calldrin@sierra.net (Chuck Alldrin)
Date: Sun, 20 Aug 1995 09:28:11 -0700
To: aprssig@tapr.org
Message-ID: <199508201628.AA01161@diamond.sierra.net>
Rendered body type: text/plain

Hello and have a great day! :-)

Cleaning out my computer room and have some "goodies" for sale:

TOSHIBA T1200 HD laptop. 8086 processor, 20 mb hard drive, 3.5" floppy, modem, power supply and manuals. The battery is suspect..don't know it's conditon. This is a great packet/portable rig.. It works on 12VDC, just plug it into your auto and go.

Note: Have used this on APRS and it works GREAT!!

Price \$ 295.00 offer/trade

KAYPRO 2000 laptop: 8086 processor, (1) 3.5" floppy. Big LCD screen. Power supply. Works good, but I think the battery is bad!
Works on packet, but haven't tried it on APRS!

Price \$ 95.00 offer/trade

COMPAQ suitcase type portable: 286-8mhz. Complete unit with built in CRT. Manuals. This unit is very good and has been in use until today!

Price \$ 195.00 offer/trade

Call me at (916) 899-1835
E-mail callldrin@sierra.net

Chuck Alldrin KN6JS Chico, CA

334. GPS - Paccomm

From: wnolle@ro.com (William Nolle)
Date: Sun, 20 Aug 1995 12:24:03
To: aprssig@tapr.org
Message-ID: <199508201729.MAA00561@sh1.ro.com>
Rendered body type: text/plain

Anyone out there that would like to share the hookup and the software setting for GPS to Paccomm Handypacket and Tiny-2 (think they are both the same hookup). I have received some great advice and help from the sig, but still no GPS-APRS tracker on the air. The moral of my story DON'T think of using a KPC3 for a GPS only tracker if your planning to use a Magellan NAV5000DX because you will not get any help from either Kantronics or Magellan even though Kantronics states it will work with GPS. I have used the NAV5000DX at one time with my Paccomm Tiny-2 so i know it will work, i just don't remember the setup or wiring hookup. I didn't want to do this because i have to rework my metal case that houses all this but i should have checked this before starting i guess Hi. Recently i have started to printout all the good information that passes through the Sig so in the future i will not have to keep asking over and over, and at 62 years old the memory is not what it used to be believe me. Again thanks guys for all the help.

Bill KE4EER
wnolle@ro.com

335. Another Laptop Combo "Just not Right"

From: Richard Garcia <p015139b@pbfree.net.seflin.lib.fl.us>
Date: Sun, 20 Aug 1995 18:36:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9508201819.B12282-0100000@pbfree.net.seflin.lib.fl.us>
Rendered body type: text/plain

This is to let other mobile or prospective mobile APRS users know of a combo that is just not quite right for "out of the box" mobile operations.

Under the disguise of a wedding present for the YL I purchased a Toshiba T2105 486DX2/50 laptop at Office Depot last night. Nice computer except for no 12V in (bought small power inverter and AC transformer is built in) and there is a bit of monitor scruntch with APRS.

Got APRS to work well with the GPS plugged into the Serial Port but as soon as I connected the PacComm HSP cable all I could access is the TNC (a PacComm Handypacket) and could not get any NEMA data (yes HSP was configured).

I know a bunch of users are having this problem and I have saved a few of the messages so I am going to try to access them so I can print them out. Seems that when I EXPORT my SIG messages in this UNIX based system to the BBS's directory set aside for me some of the files (messages) just do not want to download. In case I cannot get the older saved messages can

someone send me the fix as a private message ? I know that the fix dealt with pin #6 and a jumper to the TNC or was it the serial port for voltage supply.

```
|                                     73 de Rich Garcia N2CZF/4  
|  
|Packet Address:                     N2CZF@WB4MOZ.#WPBFL.FL.USA  
|Internet Mail :                     p015139b@pbfree.net.seflin.lib.fl.us  
|                                     "UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR"  
|                                     LATITUDE : 2654.86N      LONGITUDE : 8014.48W  
|                                     Jupiter Farms Florida  
|                                     HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79  
|
```

336. vehicular GPS antenna

From: ljs@west.net (L.J.Shepherd)
Date: Sun, 20 Aug 1995 16:22:22 -0700
To: aprssig@tapr.org
Message-ID: <199508202324.QAA16598@acme.sb.west.net>
Rendered body type: text/plain

Hello Group:

I'm considering Garmin's low-profile mag mount GPS antenna for use with my GPS45.....I would value some comments regarding this or other antennas for vehicular use.....curious to know what others are using out there. Thanks very much. Jim K60YY

337. RE: [APRSSIG:2913] vehicular GPS antenna

From: munseyj@america.com
Date: Sun, 20 Aug 95 21:11:33 EDT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.950820211154.munseyj@america.com>
Rendered body type: text/plain

Date: Sun, 20 Aug 95 21:08:58 EDT
From: munseyj@america.com
Subject: RE: [APRSSIG:2913] vehicular GPS antenna
To: aprssig@tapr.org
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am using the Garman car antenna and it works FB all the way.

The ant. has a built in amp and feed with RG 174 coax.

John KB3GK

E-mail: munseyj@america.com
08/20/9521:11:33

338. Re: [APRSSIG:2914] RE: vehicular GPS antenna

From: ljs@west.net (L.J.Shepherd)
Date: Sun, 20 Aug 1995 19:49:16 -0700
To: aprssig@tapr.org
Message-ID: <199508210250.TAA23746@acme.sb.west.net>
Rendered body type: text/plain

Hello John: Thanks for your response.....glad to hear you've had good success with the Garmin vehicular antenna.....I didn't realize it was an active antenna, are you using it with a Garmin GPS45 receiver or another do you have another model ? Jim, K60YY

>Date: Sun, 20 Aug 95 21:08:58 EDT
>From: munseyj@america.com
>Subject: RE: [APRSSIG:2913] vehicular GPS antenna
>To: aprssig@tapr.org
>MIME-Version: 1.0
>Content-Type: TEXT/PLAIN; charset=US-ASCII
>
>I am using the Garman car antenna and it works FB all the way.
>

>The ant. has a built in amp and feed with RG 174 coax.
>
>John KB3GK
>
>-----
>E-mail: munseyj@america.com
>08/20/9521:11:33
>
>
>-----
>
>
>
>

339. Re: [APRSSIG:2913] vehicular GPS antenna

From: Richard Garcia <p015139b@pbfree.net.seflin.lib.fl.us>
Date: Sun, 20 Aug 1995 22:58:04 -0400 (EDT)
To: "L.J.Shepherd" <ljs@west.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9508202234.A17744-0100000@pbfree.net.seflin.lib.fl.us>
Rendered body type: text/plain

I have used my Garmin GPS-50 antenna remotely mounted with a homemade mag-mount and about 8ft of cable.
For the price of the mobile antenna from Garmin I would be worried about cable breaks since it will probably go thru the window or get shut on the door. My XYL always forgets that it is thru the window and opens the door prior to moving the antenna back in. And when I put the cable thru the door I crindge at the smashing, but then again it cost nothing so it is not a big deal.
Take a old CB/Cellular magmount that uses a screw to attach the antenna to the magnet (very common mount) and bend a piece of metal into a L shape. The "L" will be bolted with the short side down and then by drilling a hole in the vertical part you can insert a bulkhead BNC FEMALE-FEMALE, The Garmin antenna will mount on one side (SECURE WITH TAPE!!) and then a BNC jumper to the other side towards the GPS.
REMEMBER to check the cable for shorts before using there is +5 v. at the antenna cable!!!
I have used mine for over a year and it works great! Instead of having a wire in the way all the time I have taken it and mounted it under the trim of my car from the front window pillar down to the dash and then underneath to where my GPS-50 is mounted on a cellular pedestal. It helps to be in the cellular business, lot's of junk to put to good use.
Whenever I go in another car I take along a extra BNC/BNC cable and can use it wherever I like and the other cable stays put.
Good luck and save your \$180 or so for one of those great Pico Packet TNC's got one on my hit list as soon as I recover from this Color Notebook I bought for APRS!

	73 de Rich Garcia N2CZF/4	
	Packet Address: N2CZF@WB4MOZ.#WPBFL.FL.USA	
	Internet Mail : p015139b@pbfree.net.seflin.lib.fl.us	
	"UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR"	
	LATITUDE : 2654.86N LONGITUDE : 8014.48W	
	Jupiter Farms Florida	
	HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79	

340. Spcl Event Map Makin

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 20 Aug 1995 23:56:13 -0400 (EDT)
To: aprssig@tapr.org
Cc: Prof Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.950820232327.9781G-1000000@greatlakes>
Rendered body type: text/plain

Some of you may have not noticed the F8 command which has been in recent versions which lets you get an INSTANT fix of your current location in HSP mode. This was added for Fox Hunting where you need to get a GPS posit at the same time you see a good fix on the doppler...

The F8 key has another very useful function, and that is marking intersections, checkpoints and other landmarks while driving and building a track history. Remember that you can replay any APRS track history into MAPFIX and draw a map of anywhere you have driven... With F8, now

you can be sure of having a dot right where you wanted one for making the map.

Here is how to use F8 while driving to help you later build maps:

- 1) Set HSP-POSRATE to something like every 5 to 15 seconds or so. This is so you get a steady stream of dots.
- 2) Everytime you want to mark an intersection or checkpoint or other feature for your event, press F8 to instantly update your GPS position.
- 3) Then press GO to bring the cursor to that location, and press INPUT-ADD to add an OBJECT to your POSIT file giving it the name of the location you want to remember. The INPUT-ADD command will ask you for the name of the object.
- 4) Alternatively, to avoid having to type in the name (while driving), you can just hit the INPUT-SAVE command, and a serial numbered object will be added to the position list. If you can remember what these sequential OBJECTS are, then unique names are not necessary. Usually it is easy to remember these marks, since you probably already have a paper map for the special event for reference.

Unfortunately, when you replay the track history file back in MAPFIX, all the dots look the same, but at least if you used F8, one of them will correspond to each marked location. Later after you have integrated the map into APRS, then you can do a real REPLAY of the file, and these special checkpoints or marked locations WILL show up to verify the quality of the map...

An ALTERNATIVE to step 1 and 2 above, is to set your POSRATE to 10 minutes, so that NO points go into the track history, EXCEPT for each time you press F8. This gives you total control over what dots will be overlayed in MAPFIX. In effect you are using your CAR AS A MOUSE in the real world and using F8 to "click" on each turn in the road! The down side is that this method demands a LOT of driver concentration. The UP side is that EVERY POINT was selected by you and all you need to do in MAPFIX is connect the dots!

In my opinion, if the map is big and you are doing a lot of driving, then the automatic high 5 to 15 sec rate will allow you to think about other things while driving without fear of missing a slight turn. You can still mark any point with the F8, but the problems are figuring which dot is which when you go to build the map... So in addition to just marking an intersection, you should also be sure to eventually drive through the same intersection on the other road to clearly show where the road is.

341. KPC3 for a GPS only tracker

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 20 Aug 1995 23:53:08 -0500
To: aprssig@tapr.org
Message-ID: <v01520d01ac5db8c90060@[199.1.11.205]>
Rendered body type: text/plain

>>The moral of my story DON'T think of
>using a KPC3 for a GPS only tracker if your planning to use a Magellan
>NAV5000DX because you will not get any help from either Kantronics or
>Magellan even though Kantronics states it will work with GPS.

Here is what I would do to prove it is not a voltage level problem.

Feed the NMEA+ and NMEA- into a ICOM CT-17 at the CI-V remote input J4 plug and get the RS-232 output at the J2 RS-232 plug. Use only the output signal RS-232 Pin-2 (I think) and RS-232 pin 7 ground.

RS-232 is -5 to -15 Volts when just sitting there and it other state is +5 to + 15 volt.

This negative voltage makes it easy to find the Data output pin on RS-232 cables (pin 2 or pin 3)

Feed this RS-232 into your computer using a communications program. If you get data but it looks garbled then the TTL input signal is inverted and you need the reverse it.

I don't think you can just swap the input wires due to the possibility of a common ground. (It might work ?)
But the correct way is to breadboard a quick test circuit

using a Radio Shack HEX inverter chip to invert the TTL input signal.

(You could use the other gates in the MAX chip to invert it but why mess up your ICOM computer interface CT-17 device).

If this works with your computer then you can use this TRUE RS-232 signal to drive the KPC-3 from your GPS.

Doing this will help remove one of the biggest gray areas of you problem.

=====

You also could open the KPC-3 and monitor the voltage on (Pin 10 of U2E)) the Schmitt trigger gate after the 100K ohm resistor which is the TXD input of the TNC.
If it is jumping around when your GPS is sending data it could be that the input signal is backwards.
If it just sits there then the signal is not true RS-232 or there is no signal.

If all else fails come on over to Dallas for the Sept ARRL digital conference and we can work on it. We will get to meet Keith Sproul. I don't know if Bob Bruninga will be here.

73

Bob

342. RE: [APRSSIG:2915] RE: vehicular GPS antenna

From: munseyj@america.com
Date: Mon, 21 Aug 95 07:13:33 EDT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.950821071606.munseyj@.america.com>
Rendered body type: text/plain

I am using the Garman 45. Not much into apers (don't use packet that much) but I do use it for finding exact locations for fox hunting.

John Munsey KB3GK

E-mail: munseyj@america.com
08/21/9507:13:33

343. How to make APRS maps

From: Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Mon, 21 Aug 1995 09:44:01 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.950821094126.19693B-100000@outland.dtcc.edu>
Rendered body type: text/plain

I second the request posted recently on how to make maps for APRS. I have briefly checked into this but was not successful in finding any reference in APRS documentation on how all those maps were made. I would like to use APRS for some local fox hunts but feel a need to have a local map and would be willing to go through the process (agony probably) of creating it, if I knew the format and or procedure.

Looking for a response from the group.

Sam K3BY.

344. Re: [APRSSIG:2920] How to make APRS maps

From: bill@online.comm-data.com (Bill Smith)
Date: Mon, 21 Aug 1995 10:04:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <9508211404.AA27502@comm-data.com>
Rendered body type: text/plain

I third the request on how to make maps for APRS...I would like to know the data struckture used, as I have 1:24k maps (USGS) at work, and would like to use the more detailed maps for APRS

--

William Smith | Communications Engineering Services, Inc. bill@comm-data.com
KA3MFM | 6105-E Arlington Blvd, Falls Church, VA 22044
| (703) 534-7880 FAX:(703) 534-7884

345. Re: [APRSSIG:2911] GPS - Paccomm

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 21 Aug 1995 09:10:41 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508211410.JAA10287@solar.cs.tamu.edu>
Rendered body type: text/plain

You know, after following William's tales of woe in trying to get some help from Kantronics to hook up his Magellan, I got to thinking... Just what brand of GPS is that on their ad? Isn't it a Magellan? If so, I'd think a single call to the president (what's Phil's call and last name?) should suffice!

73, gerry
gerry@cs.tamu.edu
gerry@rsgis3.tamu.edu

346. Utah APRS

From: dwetzel@acs.uswest.com
Date: Mon, 21 Aug 1995 09:28:39 -0500
To: aprssig@tapr.org
Message-ID: <03891ae0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

For those of you APRS folks contemplating a trip to Utah in the near future, the APRS activity is just getting started.

We haven't moved to 145.79 as yet, so you'll find those of us with APRS temporarily camped on the IP frequency of 145.15. Yes, I know about all of the issues of sharing a "connection oriented" frequency, but APRS is only about a month old here and we're still getting organized.

Sorry, no hf gateway yet, but there are two digi's to use -

High level coverage (9000+ feet of elevation) is provided by KF7TA on Farnsworth Peak west of SLC. Dan should be aliased as WIDE as well by the time you read this. Also, KF7TA is not continuously operational. Dan removes his radio on shift change (he works a weekly rotation as a station engineer at the top of the peak), but has excellent coverage when he's up there.

The other is WA7SLG aliased as UUGATE for Salt Lake metro. There are a couple of locals aliased as RELAY at the moment.

These stations are currently beaconing posits -

KC7CO-1
KC7CO-2
KB7WUY-2
KD6OAT-3
KF7TA

73 all

Doug

KC7CO

347. Test

From: wnolle@ro.com (William Nolle)
Date: Mon, 21 Aug 1995 11:36:00
To: aprssig@tapr.org
Message-ID: <199508211641.LAA22442@sh1.ro.com>
Rendered body type: text/plain

This is a test message, i keep getting errors in my sig mail and also an address in the header like follows.

postmaster@redriver.ksc.nasa.gov

Anyone have any ideas on this address...

348. AM packet in Sailplanes?

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Mon, 21 Aug 1995 09:41:01 -0700
To: aprssig@tapr.org
Message-ID: <v01520d01ac5e039cc274@[129.131.31.10]>
Rendered body type: text/plain

Hello all!

I have a sailplane friend who really wants to do the APRS tracking of his

sailplane, but is not a Ham and doesn't want to buy 2 new FM radios. So we're thinking of using packet over his aircraft AM radios. Are there any potential problems, legal or rf-wise, with doing this?

Thanks for any replies...

73, jan
kc6uth

jan@vislab.navy.mil

349. GPS to KPC3 problem update

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 21 Aug 1995 13:13:29 -0500
To: aprssig@tapr.org
Message-ID: <v01520d02ac5e7cd155fd@[199.1.11.136]>
Rendered body type: text/plain

> I again found that
> it would show one string in the LT buffer but would never update like it did
> when i first started all this.
>
> Bill KE4EER
> wnollie@ro.com

This sounds like a problem I have seen on this list before, I hope some others can suggest a cure.

I think we may be getting close.

I guess you must be doing all this testing outside so the GPS data will change. :-)

If each time you clear the LT buffer with a LT 1 command then connect the GPS and you only get one NMEA string, that could be another problem.

1. The KPC-3 is looking for the full format of the NMEA string data and is waiting for the end of the string. ie. a carriage return and line feed

```
$GPRMC,080503,A,3250.774,N,09645.645,W,000.0,319.5,290595,.,*04<CR><LF>
```

The NMEA 0183 standard calls for data communication in the form of coded "sentences."

Each sentence begins with the character "\$" and ends with a carriage return and line feed. These last two characters are "control" characters and are not normally printed (for this reason they are customarily shown enclosed in brackets)

2. The KPC-3 memory is not set correctly

Set your LT buffers to record a few of the other NEMA sentences and let me know if they also only fill with one update and never change. or only one fills .

(Clear the LT buffer before each test.)

Here is a sample to set two of the LT buffers to a NEMA sentences that should be standard. Note there is NO blank before the \$ and NO blank after the \$GPGGGA

```
GPSHEAD  
1 $GPGGGA  
2 $GPRMC
```

```
BLT  
1 EVERY 00:00:30  
2 EVERY 00:01:10
```

The following will set aside 5k of memory in the KPC-3 to save a track history.

```
LTRACK 5 LT1 LT2 LT3 LT4
```

** Note the data is stored in the LTRACK buffer at the rate set by the BLT beacon command not the rate the GPS sends data to the TNC.

Do a display of all your KPC-3 TNC parameters using a communications program using a save input function and send a copy to me.

I hope this is not one of those 'High order bits" problem where the control" characters have the 8 bit set high and the PKC-3 GPS string scanning program doesn't know that.

You can use your computer to play the part of the GPS and let the computer feed the NMEA formatted sentence into the kpc-3.

I hope some of our other sig readers can help with this.

73

Bob kc5ejk@onramp.net

350. Re: [APRSSIG:2916] Re: vehicular GPS antenna

From: ljs@west.net (L.J.Shepherd)
Date: Mon, 21 Aug 1995 11:59:58 -0700
To: aprssig@tapr.org
Message-ID: <199508211901.MAA26127@acme.sb.west.net>
Rendered body type: text/plain

Hello Rich: Thanks very much for your excellent suggestion....I have several old mag mounts and actually found a bnc/bnc bulkhead fitting in my junkbox ! I did call Garmin today and confirmed the price for their remote antenna at \$160, which does sound a bit steep.....I was expecting something under \$90 or so, so I suspect some of the cost is due to the active antenna design....likely the reason for the 5 volts on the antenna line. In any case, I will try your suggestion first.....thanks again !
Jim K60YY

>I have used my Garmin GPS-50 antenna remotely mounted with a homemade
>mag-mount and about 8ft of cable.
>For the price of the mobile antenna from Garmin I would be worried about
>cable breaks since it will probably go thru the window or get shut on the
>door. My XYL always forgets that it is thru the window and opens the door
>prior to moving the antenna back in. And when I put the cable thru the
>door I cringe at the smashing, but then again it cost nothing so it is
>not a big deal.
>Take a old CB/Cellular magmount that uses a screw to attach the antenna
>to the magnet (very common mount) and bend a piece of metal into a L shape.
>The "L" will be bolted with the short side down and then by drilling a
>hole in the vertical part you can insert a bulkhead BNC FEMALE-FEMALE,
>The Garmin antenna will mount on one side (SECURE WITH TAPE!!) and then a
>BNC jumper to the other side towards the GPS.
>REMEMBER to check the cable for shorts before using there is +5 v. at the
>antenna cable!!!
>I have used mine for over a year and it works great! Instead of having a
>wire in the way all the time I have taken it and mounted it under the
>trim of my car from the front window pillar down to the dash and then
>underneath to where my GPS-50 is mounted on a cellular pedestal. It helps
>to be in the cellular business, lot's of junk to put to good use.
>Whenever I go in another car I take along a extra BNC/BNC cable and can
>use it wherever I like and the other cable stays put.
>Good luck and save your \$180 or so for one of those great Pico Packet
>TNC's got one on my hit list as soon as I recover from this Color
>Notebook I bought for APRS!

>
>
>
>| 73 de Rich Garcia N2CZF/4 |
>| | |
>|Packet Address: N2CZF@WB4MOZ.#WPBFL.FL.USA |
>|Internet Mail : p015139b@pbfree.net.seflin.lib.fl.us |
>| "UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR" |
>| LATITUDE : 2654.86N LONGITUDE : 8014.48W |
>| Jupiter Farms Florida |
>| HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79 |
>| |
>
>
>
>

351. Re: [APRSSIG:2920] How to make APRS maps

Sam, there are a few files in the APRSxx.ZIP package that deal with map making. Check the APRS\README directory for:

digitizer.txt	Discusses how to use digitizer to "trace" maps.
mapfix.txt	Discusses the primary map making tool "mapfixxx.exe".
mapmakin.txt	Discusses the various methods of making them.
maps.txt	Discusses the data which make up map files.
maps-cd.txt	Discusses how to make maps from the USGS CD-ROMS or the files you can ftp from the USGS ftp site.

By the way, I am making a map of the Virginia Beach area using the HISTORY function of MAPFIX. I hook the GPS up to a HP200LX palmtop computer and run a program which captures the RMC data, opens the raw data file, writes it, and closes the file every 10 seconds while driving around town. Then you can run it thru RMCTOHTS which reformats the raw data into what APRS would call a history file. This history data may be directly imported into MAPFIX and it will provide a nice pattern of circles you can "trace over" and create your map - the map may be edited time and time again. This isn't the fastest way to do it, nor is it the most accurate. But it is one I've figured out and let's me make the map I'm looking for...HI HI (or is that HEE HEE?).

73 de Dan

352. APRS Telemetry

Bob-
I have enjoyed watching the information pass thru the sig for a while, and since I am very interested in the telemetry aspects of APRS and have not seen much discussion on it here, I am wondering what the status of telemetry is. We have been using APRS in some tests to determine its usefulness in the upcoming Olympic Yachting events here in Savannah next summer. My interest is in tying wind instruments around the race courses to APRS telemetry using a "basic stamp" interfaced to a Precision Navigation, Vector 2X compass module to indicate true wind directions.

Cardwell Smith - N4FOR- Savannah, GA

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From: philkeys@olympus.net (Phil Keys)
Date: Mon, 21 Aug 1995 14:51:30 -0800
To: aprssig@tapr.org
Message-ID: <v01510100ac5e8027d64f@[198.133.237.32]>
Rendered body type: text/plain

I am trying to run APRS on an old Zenith 8088 laptop with two 720 KB floppy drives, no hard drive. I built a floppy with an APRS directory containing all the subdirectories (some empty) including MAPS.

When I run APRS, it stops and says it can't find MAPS, did I use -d to unzip?

Is there a way I can tell APRS about B:\APRS\MAPS?

Thanks
Phik Keys

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

354. Re: [APRSSIG:2924] Test

From: Richard Garcia <p015139b@pbfree.net.seflin.lib.fl.us>
Date: Mon, 21 Aug 1995 17:58:18 -0400 (EDT)
To: William Nolle <wnolle@ro.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9508211720.C18916-0100000@pbfree.net.seflin.lib.fl.us>
Rendered body type: text/plain

I have the SAME problem William, I am glad to see I am not the only one!!
I have no idea how it happens, I am new to Internet but I did send a message to the "Postmaster" address and let's see if a sysop there get's notified of the mail.
Let's hope that they do and try to fix the problem, BTW anyone know who the contact at TAPR is and maybe have them look at the problem from their side??

73 de Rich Garcia N2CZF/4
Packet Address: N2CZF@WB4MOZ.#WPBFL.FL.USA
Internet Mail : p015139b@pbfree.net.seflin.lib.fl.us
"UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR"
LATITUDE : 2654.86N LONGITUDE : 8014.48W
Jupiter Farms Florida
HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79

On Mon, 21 Aug 1995, William Nolle wrote:

> This is a test message, i keep getting errors in my sig mail and also an
> address in the header like follows.
>
> postmaster@redriver.ksc.nasa.gov
>
> Anyone have any ideas on this address...
>
>
>

355. Re: [APRSSIG:2927] Re: vehicular GPS antenna

From: Richard Garcia <p015139b@pbfree.net.seflin.lib.fl.us>
Date: Mon, 21 Aug 1995 18:03:16 -0400 (EDT)
To: "L.J.Shepherd" <ljs@west.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9508211740.D18916-0100000@pbfree.net.seflin.lib.fl.us>
Rendered body type: text/plain

Good luck but you should not need much of it! Try improving on my design by using some of the new low-loss cable that is out there. It is a little smaller than RG-58/W but tougher since it has a teflon type (or real teflon) dielectric. It comes in White, never seen it in black and will need some careful attention when attached to the BNC connector unless you buy some specific for the cable.

I am sure that using the new cable will give you better results than I have with RG-58U at the 1.6 gig frequency! I do fine but you may get a faster lock-in time on your position with the stronger signal.

To: aprssig@tapr.org
Message-ID: <199508220025.RAA07499@acme.sb.west.net>
Rendered body type: text/plain

Bob:

Questions for you please: I'm getting aprs up and running and have successfully displayed the latest maps for my area using mapfile updates. I would like to use my Garmin GPS45 to display it's position on my local map via a direct connection to my PC. One of the helpfiles I read said that it is necessary to register the program to get a validation number prior to attempting local GPS position display.....I will be pleased to register the program in any case, but would appreciate confirmation that a locally connected GPS-PC needs the validation number.

Secondly, I've successfully downloaded a test trackfile using GARDOWN7.....I would like to download and import my testfile to aprs and would appreciate some guidance with respect to either the required procedure or a .doc file that outlines the necessary steps.

APRS looks like a great piece of work and I'm having a good deal of enjoyment getting it up and running ! Thanks for your help.

73, Jim K60YY

359. problem

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 21 Aug 1995 19:49:03 -0500
To: aprssig@tapr.org
Message-ID: <v01520d01ac5ed8edf96b@[199.1.11.136]>
Rendered body type: text/plain

> This is a test message, i keep getting errors in my sig mail and also an
> address in the header like follows.
>
> postmaster@redriver.ksc.nasa.gov
>
> Anyone have any ideas on this address...

Well, what ever you do don't use a subject line that starts with
Mail failure when reporting the problem

I sent a few messages with a subject of: Mail failure problem
and they all seen to get adsorbed by a parser.

Bob kc5ejk Dallas

360. RE: [APRSSIG:2913] vehicular GPS antenna

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Mon, 21 Aug 95 17:00:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <30390554@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

I went ahead and purchased the Garmin Magmount.... what can I say
but that it works fine... and seems to be better than the dashboard
mount location that I did have... it's costly... but works great!!!

Al AH6LS
sadowskp@usafcrqs.nellis.af.mil

From: aprssig
To: aprssig
Subject: [APRSSIG:2913] vehicular GPS antenna
Date: Sunday, August 20, 1995 6:36PM

Hello Group:

I'm considering Garmin's low-profile mag mount GPS antenna for use
with my GPS45.....I would value some comments regarding this or other
antennas for vehicular use.....curious to know what others are using out
there. Thanks very much. Jim K60YY

361. Re: [APRSSIG:2925] AM packet in Sailplanes?

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Mon, 21 Aug 1995 20:36:28 -0500
To: aprssig@tapr.org
Message-ID: <9508220136.AA07717@omnifest.uwm.edu>
Rendered body type: text/plain

You know better than that! Unless you are in immediate control of the radio you could be in "deep kimshe".

I know that it seems tempting. I realize that the chances of getting caught are small. But cutting corners reflects badly on all of us and would give those who covet our frequencies a real good argument.

Dave Barrow, N9UNR

362. Re: [APRSSIG:2925] AM packet in Sailplanes?

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Mon, 21 Aug 1995 08:36:53 -0500
To: aprssig@tapr.org
Message-ID: <199508212311.SAA23672@psycfrnd.interaccess.com>
Rendered body type: text/plain

>Hello all!

>

>I have a sailplane friend who really wants to do the APRS tracking of his
>sailplane, but is not a Ham and doesn't want to buy 2 new FM radios. So
>we're thinking of using packet over his aircraft AM radios. Are there any
>potential problems, legal or rf-wise, with doing this?

>

>Thanks for any replies...

>

>73, jan

>kc6uth

>

>jan@vislab.navy.mil

>

>

>

Hi Jan,

Just an idea for you to think about, CB radio. No license required, cheap,
and with legal power at 1000+ AGL range should be a moot point.

Ive had several brief conversations with Bob about this (we were looking at
the same license issue with Coast Guard Aux members) but it turned out we
didnt need go that route.

I think a "beta test" program might be in order, comments anyone?

Ed

N9LCI At home

N9LCI-9 in the car

N9LCI-6 on the boat

and next week N9LCI-10 in a 172

>

363. Re: [APRSSIG:2925] AM packet in Sailplanes?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 21 Aug 1995 21:53:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950821214024.16293D-100000@greatlakes>
Rendered body type: text/plain

On Mon, 21 Aug 1995, Jan A. Barglowski wrote:

> I have a sailplane friend who really wants to do the APRS tracking of his
> sailplane, but is not a Ham and doesn't want to buy 2 new FM radios. So
> we're thinking of using packet over his aircraft AM radios. Are there any
> potential problems, legal or rf-wise, with doing this?

APR REPLY: In my opinion, the lowest-common-denominator radio is CB.
Anyone can buy one for \$49 at radio shack, and have a nice compact 12
volt 5 watt radio. Ideal for APRS. I mean, what is CB, except for the
MOBILE PUBLIC? I have been proposing channel 29 for APRS. Here are the
main issues:

1) YES, there will be a performance penalty for using AM, but over water
(boats) and from the air, the S/N ratio over short paths should be fine!

2) The CB rules say tones ARE LEGAL for the purpose of "establishing and
maintaining communications" as long as the tones are less than 15
seconds in length.

3) ANY device must connect at the MIC connector, no internal mods
permitted.

4) Selective calling devices are legal, and there is NO DEFINITION in
the rules of what a selective calling system is. I also confirmed this
by phone call to the Wash DC FCC Engineer...

5) Digital communication and data transfers are prohibited.

For the purpose of legality, I have made a version of APRS called CPRS which stands for CALLING AND POSITION REPORTING SYSTEM. In MY opinion, it is perfectly legal on CB as long as you do NOT "USE IT FOR DIGITAL TRANSFERS OF DATA". As a SELECTIVE CALLING device, it is perfectly legal. I would stay away from the aircraft radio, we might get FAA or who knows who on your back.

364. Re: [APRSSIG:2925] AM packet in Sailplanes?

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Mon, 21 Aug 1995 21:06:28 -0500
To: aprssig@tapr.org
Message-ID: <199508220201.VAA10376@flowbee.interaccess.com>
Rendered body type: text/plain

>Hello all!
>
>I have a sailplane friend who really wants to do the APRS tracking of his
>sailplane, but is not a Ham and doesn't want to buy 2 new FM radios. So
>we're thinking of using packet over his aircraft AM radios. Are there any
>potential problems, legal or rf-wise, with doing this?
>
>Thanks for any replies...
>
>73, jan
>kc6uth
>
>jan@vislab.navy.mil
>
>
>
Hi Jan,
Just an idea for you to think about, CB radio. No license required, cheap,
and with legal power at 1000+ AGL range should be a moot point.

Ive had several brief conversations with Bob about this (we were looking at
the same license issue with Coast Guard Aux members) but it turned out we
didnt need go that route.

I think a "beta test" program might be in order, comments anyone?

Ed
N9LCI At home
N9LCI-9 in the car
N9LCI-6 on the boat
and next week N9LCI-10 in a 172
>

365. Re: [APRSSIG:2939] Re: AM packet in Sailplanes?

From: quarry@q.continuum.net (Chip Griffin)
Date: Mon, 21 Aug 1995 22:08:40 -0400
To: aprssig@tapr.org
Message-ID: <v01520d01ac5eebe9fde9@[199.0.52.52]>
Rendered body type: text/plain

>Just an idea for you to think about, CB radio. No license required, cheap,
>and with legal power at 1000+ AGL range should be a moot point.
>
>Ive had several brief conversations with Bob about this (we were looking at
>the same license issue with Coast Guard Aux members) but it turned out we
>didnt need go that route.

I'm pretty sure packet is not legal in CB ...

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

http://q.continuum.net/~quarry/

366. APRS Telemetry

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 21 Aug 1995 22:14:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950821220518.16293F-100000@greatlakes>

Rendered body type: text/plain

In reply to the message about making a WIND sensor for the SAILING race courses in South Carolina, I suggested using simply a PacComm TNC or other GPS TNC and the ULTIMETER-II until I realized the idea was for buoys on the open ocean...

OOPS, I see, the course is out on open water!!!

My idea there is to put a GOOD swivel on the anchor chain, and put a very strong BAR magnet below water level as the ballast. Make the whole instrument as hydronamically symmetrical as possible, and then toss it in the water. The bar magnet will align to MAGNETIC north as good as any FLUID compas, and you can offset the U-II orientation according to the local magnetic Variation. And again, you are DONE!

I would house the WHOLE thing in a long piece of PVC pipe so the wind vane sticks up very high, and the ballast is very low... In fact, If you use the PacComm dual serial port TNC, you can put a GPS in each one too, and just let them drift!!! That will eliminate ANY chance for the anchor chain to screw up the NORTH orientation...

367. Re: [APRSSIG:2930] APRS on B: drive?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 21 Aug 1995 22:18:03 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950821221533.16293G-100000@greatlakes>
Rendered body type: text/plain

On Mon, 21 Aug 1995, Phil Keys wrote:
> I am trying to run APRS on an old Zenith 8088 laptop with two 720 KB floppy drives, no hard drive. I built a floppy with an APRS directory containing
> all the subdirectories (some empty) including MAPS.
> When I run APRS, it stops and says it can't find MAPS, did I use -d to unzip?

APR REPLY: APRS must also find the FIRST map pointed to by the current MAPLIST in use and the configured position. For a new start, aprs will look for the USA.map. But if you have saved a CONFIG file, and the starting location is timbuktoo, then there has to be the timbuktoo map or you will get the APRS error you described... From then on, APRS pretty much ignores maps if they are needed but not there....'

368. Re: [APRSSIG:2940] Re: AM packet in Sailplanes?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 21 Aug 1995 23:31:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.950821232031.23847B-100000@laraby.tiac.net>
Rendered body type: text/plain

On Mon, 21 Aug 1995, Bob Bruninga wrote:

(snip)
> > we're thinking of using packet over his aircraft AM radios. Are there any
> > potential problems, legal or rf-wise, with doing this?
>
> APR REPLY: In my opinion, the lowest-common-denominator radio is CB.
> Anyone can buy one for \$49 at radio shack, and have a nice compact 12
> volt 5 watt radio. Ideal for APRS. I mean, what is CB, except for the
> MOBILE PUBLIC? I have been proposing channel 29 for APRS. Here are the
> main issues:
(snip)
> 2) The CB rules say tones ARE LEGAL for the purpose of "establishing and
> maintaining communications" as long as the tones are less than 15
> seconds in length.
(snip)
> 4) Selective calling devices are legal, and there is NO DEFINITION in
> the rules of what a selective calling system is. I also confirmed this
> by phone call to the Wash DC FCC Engineer...
> 5) Digital communication and data transfers are prohibited.
>
> For the purpose of legality, I have made a version of APRS called CPRS
> which stands for CALLING AND POSITION REPORTING SYSTEM. In MY opinion,
> it is perfectly legal on CB as long as you do NOT "USE IT FOR DIGITAL
> TRANSFERS OF DATA". As a SELECTIVE CALLING device, it is perfectly legal.
(snip)

"Selective"....Yup, just those stations running CPRS (I can see that)
but would there be WX stations ? (I don't think so...transfer of WX data)
would there be DF info ? (same reason)

would there be Bullitins, and/or direct station to staton comms? (same)

There may be more prohibited modes, but it's late and I can't think.
Sounds like a VERY restricted/crippled version of APRS. Don't know if it
would catch on. (but it might encourage a few folks to get a ham ticket)

Richard Amirault
amirault@tiac.net

N1JDU
"Go Fly A Kite"

Boston, Massachusetts USA

369. Re: [APRSSIG:2937] RE: vehicular GPS antenna

From: ljs@west.net (L.J.Shepherd)
Date: Mon, 21 Aug 1995 20:33:37 -0700
To: aprssig@tapr.org
Message-ID: <199508220335.UAA13038@acme.sb.west.net>
Rendered body type: text/plain

Thanks for your response Al.....I appreciate the report. Price according
to Garmin is \$160, which sounds a bit steep for the moment.....I went ahead
and fixed up a mag mount using adapters and the GPS45 antenna for the moment.
Thanks again.....73, Jim.

>
>I went ahead and purchased the Garmin Magmount.... what can I say
>but that it works fine... and seems to be better than the dashboard
>mount location that I did have... it's costly... but works great!!!
>
>Al AH6LS
>sadowskp@usafcrqs.nellis.af.mil
>-----
>From: aprssig
>To: aprssig
>Subject: [APRSSIG:2913] vehicular GPS antenna
>Date: Sunday, August 20, 1995 6:36PM
>
>Hello Group:
> I'm considering Garmin's low-profile mag mount GPS antenna for use
>with my GPS45.....I would value some comments regarding this or other
>antennas for vehicular use.....curious to know what others are using out
>there. Thanks very much. Jim K60YY
>
>
>

370. Re: [APRSSIG:2942] Re: AM packet in Sailplanes?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 22 Aug 1995 00:16:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950822001051.16695B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 21 Aug 1995, Chip Griffin wrote:
> >Just an idea for you to think about, CB radio. No license required, cheap,
> >and with legal power at 1000+ AGL range should be a moot point.
>
> I'm pretty sure packet is not legal in CB ...

APR REPLY: CORRECT. PACKET AS IT HAS BEEN KNOWN FOR 15 years is NOT
legal on CB. But SELECTIVE CALLING IS LEGAL, and there are NO FCC
standards for "SELECTIVE CALLING". I'm sure lawyers on either side could
make a convincing case for either way. That's why I am going to modify
APRS and call it CPRS and take out all but ONE line for messages. That
makes it a selective calling device. All modern SELCALLS provide for
several bytes of data in the SELCALL other than just the call... Why not
a position?

Channel 29, use it or lose it, hi hi....

371. Re: [APRSSIG:2921] Re: How to make APRS maps

From: jhobson@west.net (John Hobson)
Date: Mon, 21 Aug 1995 21:23:38 -0700
To: aprssig@tapr.org
Message-ID: <199508220437.VAA14848@acme.sb.west.net>
Rendered body type: text/plain

> I third the request on how to make maps for APRS...I would like to know
the data structure used, as I have 1:24k maps (USGS) at work, and would like to
>use the more detailed maps for APRS
>--
>William Smith | Communications Engineering Services, Inc. bill@comm-data.com
>KA3MFN | 6105-E Arlington Blvd, Falls Church, VA 22044
> | (703) 534-7880 FAX:(703) 534-7884

Add me to the list, Bill.
John Hobson, N6EGY, Santa Barbara, Ca.
jhobson@west.net

John Hobson
Santa Barbara, CA

372. [APRSSIG:2925] AM PACKET

From: jeff.brenton@espi.com
Date: Tue, 22 Aug 95 01:28:23 -0500
To: aprssig@tapr.org
Message-ID: <9508220128.022130D@espi.com>
Rendered body type: text/plain

Jan A. Barglowski asked if using packet over AM aviation frequencies
was legal; not especially, unless you have a waiver from the FCC to
allow it. They are rather particular about what goes on in the various
aviation bands.

As for full-carrier AM for packet, that should work, since the tones
are well within the voice range specified for aircraft radios (2.7KHz
max, sharp roll-off by 3.0KHz), and would likely work even under the
"narrow band" frequencies proposed for Europe (8.33KHz channel spacing,
vs. the current 25KHz).

373. Re: vehicular GPS antenna

From: ve2agn@mtlgw.ampr.org
Date: Tue, 22 Aug 95 07:56:18 UTC
To: aprssig@tapr.org
Message-ID: <9818@mtlgw.ampr.org>
Rendered body type: text/plain

Hello all, it is my first message on the SIG.
I have purchased a active antenna with mag mount for my Garmin 45 gps
and i saw a big difference in the reception.

This antenna have 26 db gain and now i can track 8 sat at time with
exellent signal. Before i was received only 3 or 4 sat.

The model is L1 and was bought from "High Tech Direct" in Kanata, Ontario.
It was the best price i find 139 \$Can. the phone is 1 800 268 8628.

Hope this help and hope also you understand well my poor english writing.

73 de Yves ve2agn@mtlgw.ampr.org
AX25 ve2agn@ve2toy
Terrebonne Qc 45,43,03N 73,40,05W

374. PVT-6 antenna cable...

From: George_E_Henry <ka3hsw@neutron.pd.mcs.net>
Date: Tue, 22 Aug 1995 07:21:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.950822071715.1602A-100000@neutron.pd.mcs.net>
Rendered body type: text/plain

Att'n: Dave Kaplan, Bill Carson, James Chesko, Mark Oppenheim, and Wayne
Harrell

I may have inadvertently left the antenna cable out of one of your
packages (or else I had an extra one....) because I have one left over.

If you don't get a cable with your receiver, let me know and I will send
it out right away.

(Steve Martin and Steve Dimse, I just finished boxing yours up and I know
your cables are in there)

73 de KA3HSW

375. Re: AM packet in Sailplanes, and CB

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Tue, 22 Aug 1995 09:39:33 -0500
To: aprssig@tapr.org
Message-ID: <9508221338.AA18835@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 09:21 PM 8/21/95 -0500, Bob Bruninga wrote:

>APR REPLY: In my opinion, the lowest-common-denominator radio is CB.
>Anyone can buy one for \$49 at radio shack, and have a nice compact 12
>volt 5 watt radio. Ideal for APRS. I mean, what is CB, except for the
>MOBILE PUBLIC? I have been proposing channel 29 for APRS. Here are the
>main issues:
> 1) YES, there will be a performance penalty for using AM, but over water
>(boats) and from the air, the S/N ratio over short paths should be fine!

In Europe, CB radios come with FM, and it works great. Usually the rigs are American models (and are FCC aproved!). Don't know if it is possible to find these here.

I made packet at 1200 bauds myself with one of these rigs and a PK232, it works well (although illegal in most countries). The tnc is connected via the mike and the external speaker connectors.

Bernard, KBT2GH.

376. GPS Antenna

From: k6enghcs@sasdns.sas.usace.army.mil (Cardwell Smith)
Date: Tue, 22 Aug 1995 09:49:28 -0400
To: aprssig@tapr.org
Message-ID: <199508221349.JAA12514@sasdns.sas.usace.army.mil>
Rendered body type: text/plain

Hello All:

Just a quick note on an antenna we've been using for a while now, which seems to do a good job with our Garmin 45s. Several of us in Savannah have ordered the model 90LL13800 form MicroPulse Inc. in Camarillo, CA (805-389-3446) and really like it. It is a small flat patch antenna which can be orederd with a magnetic or suction cup base with 10' of RG-316 cable with a BNC connector. It is an active antenna and seems to achieve lock faster and hold lock under trees etc. well. After using several other combinations of cables to remote the standard GPS 45 antenea for vehicles and boats, we have found this antenna to be a great improvement in signal quality. The cost is around \$75.00 with shipping. The folks at MicroPulse seem to be pretty good folks to deal with, and we recieved them in about a week.

Cardwell Smith - N4FOR - Savannah, GA

377. re: GPS Antenna

From: quarry@q.continuum.net (Chip Griffin)
Date: Tue, 22 Aug 1995 10:29:57 -0400
To: aprssig@tapr.org
Message-ID: <v01520d00ac5f99f357af@[199.0.52.59]>
Rendered body type: text/plain

>It is a small flat patch antenna
>which can be orederd with a magnetic or suction cup base with 10' of
>RG-316 cable with a BNC connector. It is an active antenna and seems to
>achieve lock faster and hold lock under trees etc. well.

Sounds great. Any idea if they sell a version in the GPS-40 format? (The GPS-40 doesn't have a BNC connector but rather a proprietary [I think] connector for the antenna.)

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (203-889-6427)

quarry@q.continuum.net | N1MIE@n1okk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

<http://q.continuum.net/~quarry/>

378. 10% off

Seems like the next few days would be a good time to get that GPS-45 that you've been eyeing up for a while Should work out at around \$270 plus tax.

Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980
 Fax:+1 (813) 872-8696
 Views expressed here are not necessarily those of PacComm
 Don't surf the net, SAIL it!
 Captain of S/V "Spindrift", Dunedin, FL.
 Catalina 36: Tall rig (58'), Winged Keel (4' 2"), /
 Full batten main, Boston Whaler dinghy. /-
 PacComm Packet Radio Systems \--
 4413 N. Hesperides St., Tampa, FL 33614-7618 \

2980

Comm

A diagram of a triangle with dashed lines and a central asterisk, labeled '2980' and 'Comm'.

379. Re: [APRSSIG:2933] Re: vehicular GPS antenna

From: WA1YKN@aol.com
Date: Tue, 22 Aug 1995 11:08:58 -0400
To: aprssig@tapr.org
Message-ID: <950822110011_80432186@mail04.mail.aol.com>
Rendered body type: text/plain

Regarding vehicular/marine GPS antennas, I have found a source of OEM antennas that seem to be very high quality at a more resonable price. I am presently testing one of these antennas with extremely good results. The antenna is a hocky puck style antenna of very high quality, the one I am testing is hooked up to a Garmin 45... I am planning to purchase a quantity of these antennas for the marine business if all works out as planned, if so, I will advise the APRSSIG... More information to follow as it becomes available...

73, Mitch, WA1YKN...

380. Re: [APRSSIG:2939] Re: AM packet in Sailplanes?

From: dwetzel@acs.uswest.com
Date: Tue, 22 Aug 1995 12:10:54 -0500
To: aprssig@tapr.org
Message-ID: <03a09220@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
>Hello all!
```

>

>I have a sailplane friend who really wants to do the APRS tracking of his
>sailplane, but is not a Ham and doesn't want to buy 2 new FM radios. So
>we're thinking of using packet over his aircraft AM radios. Are there any
>potential problems, legal or rf-wise, with doing this?

>

>Thanks for any replies...

>

>73, jan

>kc6uth

>

```
>jan@vislab.navy.mil
```

>

>

>

Hi Jan.

Just an idea for you to think about, CB radio. No license required, cheap, and with legal power at 1000+ AGl range should be a moot point.

Ive had several brief conversations with Bob about this (we were looking at the same license issue with Coast Guard Aux members) but it turned out we didnt need go that route.

I think a "beta test" program might be in order, comments anyone?

I have to agree - the CB route is the way to go, especially since there are so

many rig options available - cost, size, weight, power. Even with a relatively inefficient loaded and shortened antenna, the coverage would be great. Perhaps in conjunction with a CB-2meter gateway?

Doug
KC7CO

381. Re: [APRSSIG:2922] Re: GPS - Paccomm

From: rwf@mindspring.com (rwf)
Date: Tue, 22 Aug 1995 17:37:01 -0500
To: aprssig@tapr.org
Message-ID: <199508222137.RAA18890@dylan.mindspring.com>
Rendered body type: text/plain

I visited their booth at the Huntsville Hamfest Saturday and mentioned Bill's problem. I asked them why they didn't have some sort of "technical notes" that outlined how to connect up these GPSS. Their response was that "no one ever told us how to hook them up".

Ralph
N4NEQ

>You know, after following William's tales of woe in trying to get some help
>from Kantronics to hook up his Magellan, I got to thinking... Just what brand
>of GPS is that on their ad? Isn't it a Magellan? If so, I'd think a single
>call to the president (what's Phil's call and last name?) should suffice!
>
>73, gerry
>gerry@cs.tamu.edu
>gerry@rsgis3.tamu.edu
>
>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://www.mindspring.com/users/rwf> for ATV, GPS, APRS info
ATV and GPS Balloon Flight coming up August 5th from Atlanta, GA
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

382. Re: [APRSSIG:2924] Test

From: rwf@mindspring.com (rwf)
Date: Tue, 22 Aug 1995 17:37:04 -0500
To: aprssig@tapr.org
Message-ID: <199508222137.RAA18918@dylan.mindspring.com>
Rendered body type: text/plain

I am also getting it. I thought maybe I had some cc: set up somehow, but I am clean. ANYone else know why Bill and I are getting the redriver bounced emails from the SIG?

Ralph
N4NEQ

>This is a test message, i keep getting errors in my sig mail and also an
>address in the header like follows.
>
>postmaster@redriver.ksc.nasa.gov
>
>Anyone have any ideas on this address...
>
>
>
>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: [ftp.mindspring.com/users/rwf](ftp://www.mindspring.com/users/rwf) for ATV, GPS, APRS info
ATV and GPS Balloon Flight coming up August 5th from Atlanta, GA
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

383. Re: [APRSSIG:2930] APRS on B: drive?

From: rwf@mindspring.com (rwf)
Date: Tue, 22 Aug 1995 17:37:33 -0500
To: aprssig@tapr.org
Message-ID: <199508222138.RAA19087@dylan.mindspring.com>
Rendered body type: text/plain

Bob B. -

Phil asked the question I had been saving until all the latest revisions were complete. (Didn't want to get in the way of Meteor Scatter)

Since you are supporting old CGA laptops (and I do have one- a Toshiba 1200), how about allowing us to specify what drive (I have A and B, but no C) certain things are on. I'd like to put maps on my 2nd 720 K floppy, but right now it sits unused. I think Phil wants the same thing

Thanx

Ralph

>Is there a way I can tell APRS about B:\APRS\MAPS?
>
>Thanks
>Phik Keys
>
>philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
>Software Consultant - specializing in software safety & SQA
>Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N
>
>
>
>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: [ftp.mindspring.com/users/rwf](ftp://www.mindspring.com/users/rwf) for ATV, GPS, APRS info
ATV and GPS Balloon Flight coming up August 5th from Atlanta, GA
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

384. Re: MAPFIX15

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 22 Aug 1995 18:24:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950822182148.1735E-100000@greatlakes>
Rendered body type: text/plain

Nolle reports that my single point removal command C in MAPFIX15 is properly now removing the single point lines, but is also generating a lot of random lines in the process. Here is my thoughts... Can anyone confirm that this is what is happening?

The Single point line removal algorithm MAY be removing the point and then it might be joining the previous and next lines together. See if this is what you are seeing???

385. CAN DO APRS on B: drive!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 22 Aug 1995 18:28:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950822182620.1735F-100000@greatlakes>
Rendered body type: text/plain

On Tue, 22 Aug 1995, rwf wrote:

> Since you are supporting old CGA laptops (and I do have one- a Toshiba
> 1200), how about allowing us to specify what drive (I have A and B, but no

APR REPLY: Its built into DOS. Just use the APPEND command. SOmeone posted how to do it, but I cant find it. APPEND can be used to tell your PC to search not only the specified drive, but also an other drive looking for a file....

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 22 Aug 1995 18:50:27 +0100 (EDT)
To: aprssig@tatr.org
Message-ID: <Pine.SUN.3.91.950822184730.7572A-100000@pinegov>
Rendered body type: text/plain

```
>
>
> Bob B.-
>
> Phil asked the question I had been saving until all the latest revisions
> were complete. (Didn't want to get in the way of Meteor Scatter)
>
> Since you are supporting old CGA laptops (and I do have one- a Toshiba
> 1200), how about allowing us to specify what drive (I have A and B, but no
> C) certain things are on. I'd like to put maps on my 2nd 720 K floppy, but
> right now it sits unused. I think Phil wants the same thing
>
> Thanx
>
> Ralph
>
>
> >Is there a way I can tell APRS about B:\APRS\MAPS?
> >
> >Thanks
> >Phik Keys
> >
> >philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
> >Software Consultant - specializing in software safety & SQA
> >Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N
> >
> >
> >
> >
> >
> >
```

Syntax is Append B: or Append B:\directory, this causes any program (supposedly) to look at the appended directory if the file sought is not in the listed directory....it is the equivalent of the path command for data files.....

73 de Kevin KD4UYR
>

From: Richard Garcia <p015139b@pbfreeenet.seflin.lib.fl.us>
Date: Tue, 22 Aug 1995 19:10:05 -0400 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Cc: bruninga@nadr.navy.mil
Message-ID: <Pine.3.89.9508221835.B26741-0100000@pbfreeenet.seflin.lib.fl.us>
Rendered body type: text/plain

HSP cable connected to Notebook, GPS and TNC. APRS will only see the TNC on-line, and work normally, no GPS data is coming in, HSP Timeout keeps coming up on the upper right of the screen.

HSP cable connected to Notebook, and GPS, I have unplugged the TNC from the pigtail. APRS sees all the GPS data coming thru. APRS displays any

NEMA sentences on the bottom of the screen and posts the latest RMC line as a P screen update, printing of my car works just fine on the map. I re-connect the TNC to the cable and the GPS drops out again, all I have is the TNC showing up on the screen.

Well based on that and a conversation with Bob WB4APR and Paul at PacComm I took and supplied voltage to pin 6 of the HSP board. No voltage was seen at the serial port so I took +8v from a SMT resistor UNDERNEATH the HandyPacket's PC board and ran it to pin 9 of the HandyPacket's DB connector which is not used. At the pigtail side of the connector I ran a small wire from pin 9 to the HSP board's pin 6, easy enough ?? Seemed that the HSP was not being powered up, right ?? WRONG... the HSP board now has power BUT it is still showing the same problems as before. It looks as if the switching circuit is not switching from the TNC (normally closed (in line)) to the GPS (normally open(out of the line)) but now that the HSP switcher has power it still is not switching!

Any ideas the clock is ticking away....
BTW if you know the fix or have a really good idea at what is wrong give me a call, collect. The phone number is (407) 745-2404 and when the operator (or computer) asks for a name give your callsign so I know to accept the call. I may not be in early tomorrow night but if you call on Wed try to call after 8-9pm, tonight Tues., you can call whenever.

73 de Rich Garcia N2CZF/4
Packet Address: N2CZF@WB4MOZ.#WPBFL.FL.USA
Internet Mail : p015139b@pbfree.net.seflin.lib.fl.us
"UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR"
LATITUDE : 2654.86N LONGITUDE : 8014.48W
Jupiter Farms Florida
HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79

388. More HSP Cable problems

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 22 Aug 1995 21:21:37 -0400 (EDT)
To: aprsig@tapr.org
Message-ID: <Pine.SUN.3.91.950822210234.2238D-100000@greatlakes>
Rendered body type: text/plain

There appear to be two problems with your interface. Look at the schematic in my GPS.txt.

1) you say the GPS data passes through ALL THE TIME when the TNC is NOT connected. This implies to me that the 2nd NPN transistor is NOT clamping the GPS data OFF. If there is a +V voltage on the DTR pin of the PC, then I don't see how it can NOT be clamping the GPS.?? Are your grounds intact? The presence or absence of +v supplying the whole HSP circuit should NOT matter for the CLAMPING action.

TEST: Connect a voltmeter to the DTR output of your PC and it should go to a NEGATIVE voltage whenever APRS tries to get HSP data. It should be POSITIVE all the rest of the time. If this is OK and toggling, then apparently your GPS output is too strong for the clamp circuit. Try inserting another 1k, 2k, 5k 10k in series with the GPS data.

2) When you connect the TNC, the continuous GPS data stops and even when APRS toggles DTR, the GPS data does not come through... This tells me that the TNC may have a really good negative pull down through the 10K resistor on the RXD line which may be too strong for the GPS to overcome through its 1K and 3 diode voltage drops... If this were the only problem, then try placing a 2k, 5k or 10k in series with the RXD from the TNC.

If you are looking at a recent copy of my schematic, ignore the added NOTE1 and NOTE2 resistors, diodes and switches.

But these two problems seem mutually exclusive. In one case the problem is the GPS is too strong, and the other is the TNC is too strong. These both cannot be true...

NOTE: When I say try a resistor in series, you should find the largest value that still solves the problem and then HALVE it for the final installation.

Tell me what you find.

389. Mapfix15

From: wno1le@ro.com (William Nolle)
Date: Tue, 22 Aug 1995 20:41:31
To: aprssig@tapr.org
Message-ID: <199508230147.UAA15272@sh1.ro.com>
Rendered body type: text/plain

Regarding MAPFIX15.EXE i in fact find it useless in it's present form. in some maps created from the Cd-Rom are about 60 percent that have the additional lines, now what's strange tough is that not all maps have this problem. I have made some that had only a few. I attempted to create 3 new maps today and they all had to be deleted because in order to delete those lines and redraw them would have been to time consuming.

Bill KE4EER
wno1le@ro.com

390. Re: [APRSSIG:2925] AM packet in Sailplanes?

From: parker@rincon.com (Mike Parker)
Date: Tue, 22 Aug 1995 18:55:35 -0700
To: aprssig@tapr.org
Message-ID: <199508230155.SAA28806@mailhost.primenet.com>
Rendered body type: text/plain

At 11:42 AM 8/21/95 -0500, Jan A. Barglowski wrote:

>I have a sailplane friend who really wants to do the APRS tracking of his
>sailplane, but is not a Ham and doesn't want to buy 2 new FM radios. So
>we're thinking of using packet over his aircraft AM radios. Are there any
>potential problems, legal or rf-wise, with doing this?

I checked into this a little before settling on 2 meters for the sailplane experiments to date.

Here is what I think that I know about the legal stuff:

Aircraft radios at VHF are only authorized A3E per part 87 (Aviation Services). Specifically the table in 87.131.

F2D only shows up at UHF frequencies. I still haven't figured out how to get a license for UHF frequencies.

A possibility is an STA for VHF, but I have no experience with this.

Now, some practical issues:

Sailplanes operate on only two aircraft frequencies 123.3 and 123.5 MHz. Current activity on these frequencies sometimes gets excessive, and it is common for pilots to turn off their radios while flying cross-country to avoid the noise.

Operating packet on either of these frequencies, even if legal, would make your friend very unpopular. When packet first came out, we attempted to share packet and voice on some 2 meter repeaters. Having to listen to packet was very annoying to human operators.

Of course there are probably some other frequencies available in certain situations. There are blocks of frequencies that appear to be reserved for things like flight test, etc. Use of these would undoubtedly require discussions with the FCC.

If anyone has any comments or ideas on the above, please E-mail directly to me (or post if of general interest).

The above comments should not be interpreted as discouraging a unobtrusive tone burst at the beginning of an audio transmission, subaudible tones, or whatever. I don't know about the legality of these, but they might be neat.

A permanent 2 meter antenna has been set up at El Tiro Gliderport (near Tucson) and we are continuing to experiment with tracking sailplanes. I welcome information or inquires from anyone else with a similar interest.

Mike Parker, KT7D
Ventus, IC
parker@rincon.com

391. Garmin GPS 40 External Antenna

From: gerryc@metronet.com
Date: Tue, 22 Aug 1995 21:04:15 -0600
To: aprssig@tapr.org
Message-ID: <v01510109ac604a542e80@[192.245.137.70]>
Rendered body type: text/plain

My gps unit for APRS is a Garmin GPS 40, the External antenna connector for it is a Garmin special. Has anyone run across just the Connector for the '40.

392. APRS on any VOICE circuit?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 22 Aug 1995 23:12:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950822230636.2929C-100000@greatlakes>
Rendered body type: text/plain

On Tue, 22 Aug 1995, Mike Parker wrote:

> At 11:42 AM 8/21/95 -0500, Jan A. Barglowski wrote a lot about Acft VHF:
>
> The above comments should not be interpreted as discouraging a
> unobtrusive tone burst at the beginning of an audio transmission,
> subaudible tones, or whatever. I don't know about the legality
> of these, but they might be neat.

APR REPLY: SOON now, I will be making available a kit of parts so that you can hook up your stand-alone-tracker to your VOICE radio and it will send out a PACKET POSIT at the end of your voice transmission.. If anyone is interested in this, go ahead and start figuring out how you are going to connect 5 wires to your MIC connector. GND, PTT, RCV audio, XMT audio, and a second PTT...

I checked on the MFJ MIC/TNC patch box, but, of course, they were out of stock and expected more sometime in the future.... hi hi

Looks like a back-to-back 8 pin male-female combo with a 5 pin DIN plug will be the trick.... More later....

393. Mail failure

From: jhobson@west.net (John Hobson)
Date: Tue, 22 Aug 1995 20:05:28 -0700
To: aprssig@tapr.org
Message-ID: <199508230319.UAA28006@acme.sb.west.net>
Rendered body type: text/plain

> I third the request on how to make maps for APRS...I would like to know
the data structure used, as I have 1:24k maps (USGS) at work, and would like
to
>use the more detailed maps for APRS
>--
>William Smith | Communications Engineering Services, Inc.
bill@comm-data.com
>KA3MFN | 6105-E Arlington Blvd, Falls Church, VA 22044
> | (703) 534-7880 FAX:(703) 534-7884

Add me to the list, Bill.
John Hobson, N6EGY, Santa Barbara, Ca.
jhobson@west.net

John Hobson
Santa Barbara, CA

John Hobson
Santa Barbara, CA

394. Das Beepensounden

From: mark@tetherless.com (Mark Oppenheim)
Date: Tue, 22 Aug 1995 20:45:50 -0700
To: aprssig@tapr.org
Message-ID: <199508230345.UAA26606@gorgor.pa.tetherless.com>
Rendered body type: text/plain

Does anyone know how to stop the BEEP that some users put in their BEACON texts?

In APRS there is a facility to eliminate the APRS-generated beeps, but not a command that I've seen so far to suppress the user-initiated beeping.

Unfortunately, my TNC (a DataEngine) does not have a command (that I've found, at least) to send all the CTRL-G characters to the bit-bucket.

Any ideas?

Mark
KD6KQ

395. This is scary...

From: JeffS5@aol.com
Date: Wed, 23 Aug 1995 02:41:44 -0400
To: aprssig@tapr.org
Message-ID: <950823024143_81155728@emout04.mail.aol.com>
Rendered body type: text/plain

HAVn't seen any aprs for 2 days. just checking to see if everyone fell asleep or I've been dropped.

jeff wa6equ

396. Re: [APRSSIG:2955] 10% off

From: chapeg@rpi.edu (George V. Chapek)
Date: Wed, 23 Aug 1995 06:06:22 -0400
To: aprssig@tapr.org
Message-ID: <199508231007.GAA10231@mail1.its.rpi.edu>
Rendered body type: text/plain

>PLUS was told there was a store wide 10% off EVERYTHING!
>
>Seems like the next few days would be a good time to get that
>GPS-45 that you've been eyeing up for a while
>Should work out at around \$270 plus tax.
>
Does anybody have an 800 number for E&B? I misplaced (lost) the one I had?

Internet: chapeg@rpi.edu
George V. Chapek CIS: 74216,1554
Amateur Radio: N2AIG @ WA2UMX.ENY.NY.USA

397. Re: [APRSSIG:2959] Re: Test

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Wed, 23 Aug 95 06:13:04 UTC
To: aprssig@tapr.org
Message-ID: <4152@paccomm.com>
Rendered body type: text/plain

I get them too; presumed everyone does. It appears that when the listserver cannot deliver a message it sends a service message to the whole list.

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org

+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

398. Re: [APRSSIG:2958] Re: GPS - Paccomm

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Wed, 23 Aug 95 06:10:48 UTC
To: aprssig@tapr.org
Message-ID: <4151@paccomm.com>
Rendered body type: text/plain

ref N4NEQ's message about speaking with 'them' at the Huntsville Hamfest:
I hope it is obvious he was speaking to Kantronics, not PacComm as one might infer from the subject line.

Just making sure....

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org

+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)

399. Re: [APRSSIG:2971] Das Beepensounden

From: lbutler@awod.com (Larry Butler)
Date: Wed, 23 Aug 1995 07:23:52 -0400
To: aprssig@tapr.org
Message-ID: <199508231123.HAA25913@sumter.awod.com>
Rendered body type: text/plain

>Does anyone know how to stop the BEEP that some users put in their BEACON texts?

Mark, it's not the users beeping...it's APRS. When you find out how to stop it, let me know so I can stop it, too. I got beep off and it still beeps all the time...73, Larry KN4IM

400. GPS Antenna

From: k6enghcs@sasdns.sas.usace.army.mil (Cardwell Smith)
Date: Wed, 23 Aug 1995 07:55:45 -0400
To: aprssig@tapr.org
Message-ID: <199508231155.HAA01416@sasdns.sas.usace.army.mil>
Rendered body type: text/plain

On 22 Aug. Chip Griffin wrote:

>....Any idea if they sell a version in the GPS-40 format? The GPS-40
>doesn't have an BNC connector...

I'm not familiar with the GPS-40 connector, but the guys at MicroPulse seem to be pretty flexible in how you want the antenna configured. Give them a call and see what they say.

Cardwell Smith - N4FOR

401. Re: [APRSSIG:2973] Re: 10% off

From: jneely@eden.com (Jim Neely)
Date: Wed, 23 Aug 95 07:03:46 EDT
To: aprssig@tapr.org
Message-ID: <199508231206.HAA22211@matrix.eden.com>
Rendered body type: text/plain

On Wed, 23 Aug 1995 05:16:27 -0500 you wrote:

>Does anybody have an 800 number for E&B? I misplaced (lost) the one I had?

>-----
> Internet: chapeg@rpi.edu
>George V. Chapek CIS: 74216,1554
> Amateur Radio: N2AIG @ WA2UMX.ENY.NY.USA
>-----
>
>

1-800-BOATING
1-800-262-8464

jn

Jim Neely
jneely@eden.com wa5lhs@tapr.org

402. Re: [APRSSIG:2967] Re: AM packet in Sailplanes?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 23 Aug 1995 07:28:57 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508231228.HAA06782@solar.cs.tamu.edu>
Rendered body type: text/plain

Another thought: Obtain a license in the Itenerant Business service, and use UHF, using either the TEKK or Maxon radios. Low power consumption, no risk of intermod, IB frequencies do not seem to interfere with GPS, small antennas, small stand-alone trackers.

Kinda like a cow box...

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk

* to astronauts, and smile

403. Re: [APRSSIG:2958] Re: GPS - Paccomm

From: paul@paccomm.com
Date: Wed, 23 Aug 95 09:01:57 UTC
To: aprssig@tapr.org
Message-ID: <4182@paccomm.com>
Rendered body type: text/plain

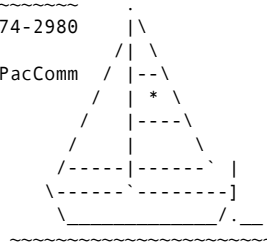
Dunno how we got involved in being quoted as saying
"no-one ever told us how to hook them up" (Magellan + TNC)

It would have been difficult because PacComm wasn't at Huntsville
HamFest !!!!!!!!!!!!!!!!!!!!!!!

I think you mean Kantronics ??????????

Regards,

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980  
Fax:+1 (813) 872-8696  
Views expressed here are not necessarily those of PacComm  
Don't surf the net, SAIL it!  
Captain of S/V "Spindrift", Dunedin, FL.  
Catalina 36: Tall rig (58'), Winged Keel (4' 2"),  
Full batten main, Boston Whaler dinghy.  
PacComm Packet Radio Systems  
4413 N. Hesperides St., Tampa, FL 33614-7618

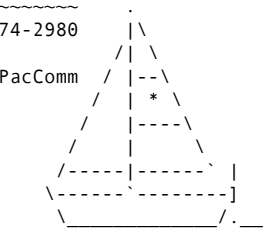


#### 404. Oops

From: paul@paccomm.com  
Date: Wed, 23 Aug 95 09:39:22 UTC  
To: aprssig@tapr.org  
Message-ID: <4185@paccomm.com>  
Rendered body type: text/plain

AFTER sending my comment about Ralph Fowler's message (possibly  
confusing PacComm and Kantronics) I read the quoted message which  
was part of Ralph's message and realized my posting was not  
necessary. Sorry for the bandwidth.  
(The preceeding message ghostwritten for Paul by another APRSSIG member)

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980
Fax:+1 (813) 872-8696
Views expressed here are not necessarily those of PacComm
Don't surf the net, SAIL it!
Captain of S/V "Spindrift", Dunedin, FL.
Catalina 36: Tall rig (58'), Winged Keel (4' 2"),
Full batten main, Boston Whaler dinghy.
PacComm Packet Radio Systems
4413 N. Hesperides St., Tampa, FL 33614-7618



405. Huntsville Fest

From: wnolle@ro.com (William Nolle)
Date: Wed, 23 Aug 1995 09:00:10
To: aprssig@tapr.org
Message-ID: <199508231405.JAA00175@sh1.ro.com>
Rendered body type: text/plain

Although i'm not the one that said that, but the message was directed to me
specifically. What Ralph N4NEQ was talking about was in fact KANTRONICS!.
It was in relation to the constant problem i have been having trying to make
my Magellan NAV5000DX work with a KPC3. Nobody at Kantronics could shed
any light on the reason why their KPC3 will not except input from my GPS
even after the 4 phone calls i have made. So Ralph gave it another try by
talking to the KANTRONICS PEOPLE AT THE HUNTSVILLE HAMFEST!.
No help their either!. So again the moral of the story If you have a
NAV5000DX and you want to use it for APRS GPS tracking DON'T use the
KPC3 it won't work, i have been working on it for 3 weeks and finally figured
it wasn't worth all the aggravation and expense of all the long distance calls.
O yes i also called Magellan several times. So i have now been offered an out
for my problem by the good people at PacComm, more about that later. I have
used a Tiny-2 MK-2 with this same Magellan GPS receiver without any
problems at all. and NO i'm not being paid to say this. It's the facts folks!.
I hope this will set the story straight that it was not PacComm N4NEQ was

talking about.

Bill KE4EER
wnolle@ro.com

406. Mapmaking

From: wnolle@ro.com (William Nolle)
Date: Wed, 23 Aug 1995 09:15:27
To: aprssig@tapr.org
Message-ID: <199508231420.JAA01739@sh1.ro.com>
Rendered body type: text/plain

Well i have to say i started this morning downloading 9meg of data from USGS and it's really a pleasure making maps using USGS2MAP.BAS. It's actually fun using this program. Bob are you listening Hi. Jack Cavanagh and additions by Bob made this a program that's a pleasure to use. I was going wild this morning and made a map covering MS,AL just the county's for our heavy weather net that we run when the NWS has warnings out for the area. Bob if Mapfix15,16,17 or whatever could be made to work like this software i would be willing to send you another registration for the Map software only hi. I know it's not that easy since we are working with totally different data files, but a guy can dream can't he. Just wanted to let Jack and Bob know that i'm having fun making all those maps, it's almost as much fun as running APRS (Almost!).....

Bill KE4EER
wnolle@ro.com

407. APRS beeps

From: Jerry Wyatt <jwyatt@amex-trs.com>
Date: Wed, 23 Aug 95 07:45:26 -0700
To: aprssig@tapr.org
Message-ID: <9508231445.AA24579@lineng.ipc.amex-trs.com>
Rendered body type: text/plain

APRS beeps:

Several versiona ago, Bob placed a "junk" filter in APRS that is optional. I had requested it because other BBS'es send binary headers and they often clear, scroll or beep on the screen. Bob added a 'junk filter' that removes/doesn't display any none ASCII printable characters. This change when turned on stops all this garbage and displays a msg at the bottom of the screen when it detects 'junk' in a msg.

I recall the command is 'C', 'Filters', 'Junk filter'.

Try it, you might like it like I did!

Later
jerry wyatt

The opinions expressed in this message are those of the author only,
and do not necessarily reflect the opinions of American Express.

408. Re: [APRSSIG:2984] APRS beeps

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Wed, 23 Aug 1995 08:55:02 -0700
To: aprssig@tapr.org
Message-ID: <9508231551.AA20460@gvgadg.gvg.tek.com>
Rendered body type: text/plain

>APRS beeps:

>

>Several versiona ago, Bob placed a "junk" filter in APRS that is optional. I
>had requested it because other BBS'es send binary headers and they often clear,
>scroll or beep on the screen. Bob added a 'junk filter' that removes/doesn't
>display any none ASCII printable characters. This change when turned on stops
>all this garbage and displays a msg at the bottom of the screen when it detects
>'junk' in a msg.

>

>I recall the command is 'C', 'Filters', 'Junk filter'.

>

>Try it, you might like it like I did!

>

>Later

>jerry wyatt

>
>
>
>The opinions expressed in this message are those of the author only,
>and do not necessarily reflect the opinions of American Express.
>
>
I use the junk filter up here in Northern California and the screen still
keeps blanking out. I am hearing BBSs and nodes on 145.01 that seem to be
sending something that blanks the screen.

Any ideas what else I can set to keep this from happening. I hate to keep
hitting the space bar to bring the display back all the time.

Randy
WA2AGE

Randy Hall
Grass Valley Group

409. Re: [APRSSIG:2982] Huntsville Fest

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 23 Aug 1995 11:06:54 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508231606.LAA09381@solar.cs.tamu.edu>
Rendered body type: text/plain

Well, I was not able to make Huntsville either (last time I did I was actually
there to support a Shuttle Experiment, but I digress).

I have been working with one of the Pico Packet TNCs from PacComm for the last
month or so, and have to report a failure.

Specifically, I've been unable to find any problems, and I've exercised it
pretty well between the Shuttle APRS deal, and local packet activities. It's
just sat there and played along with my IC-970A with no (zero, zip) problems I
can find.

So, I guess I failed as a tester!

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

410. Das Beepensounden

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 23 Aug 1995 13:15:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950823131451.12956C-100000@greatlakes>
Rendered body type: text/plain

On Tue, 22 Aug 1995, Mark Oppenheim wrote:

> Does anyone know how to stop the BEEP that some users put in their BEACON
> texts?
>
> In APRS there is a facility to eliminate the APRS-generated beeps, but not a
> command that I've seen so far to suppress the user-initiated beeping.

APR REPLY: The CONTROLS-FILTERS-JUNK may do it. Give it a try and let
us know...

411. Re: [APRSSIG:2971] Das Beepensounden

From: Barbara Fehner <fehner@cts.com>
Date: Wed, 23 Aug 95 15:09 PDT
To: aprssig@tapr.org
Message-ID: <m0slNzJ-000V1GC@mailhub.cts.com>
Rendered body type: text/plain

At 10:50 PM 8/22/95 -0500, you wrote:
>Does anyone know how to stop the BEEP that some users put in their BEACON
texts?
>

>In APRS there is a facility to eliminate the APRS-generated beeps, but not a
>command that I've seen so far to suppress the user-initiated beeping.
>
>Unfortunately, my TNC (a DataEngine) does not have a command (that I've
>found, at least) to send all the CTRL-G characters to the bit-bucket.
>
>Any ideas?
>
>Mark
>KD6KQ
>

MFILTER which is a TNC-2 command should do it. Set it to 7 to filter out the
Ctrl G characters. It works with my PK-232. Check your manual to see if your
DataEngine will do it. The PK-232 also has a feature to block all control
characters except CR and LF if MFILTER is set to 128.

Barbara KK6IB
E-Mail: fehner@cts.com

412. Das Beepensounden (Book II)

From: mark@tetherless.com (Mark Oppenheim)
Date: Wed, 23 Aug 1995 17:05:57 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199508240005.RAA14533@gorgor.pa.tetherless.com>
Rendered body type: text/plain

Thanks for the suggestions, but the JUNK FILTER in APRS does not work in
this application, and the Kantronics DataEngine does not support the MFILTER
command that Barbara Fehner recommended.

Any other ideas?

There's probably NOT a way for Bob to filter Beacon-imbedded Bells out in
real time, since they are basically dumped to the screen, eh?

As I am currently using a dedicated 286 for this task, I guess it's time to
open the thing up, and pull the speaker leads.

Mark
KD6KQ

-- Original Post Follows ---

>>Does anyone know how to stop the BEEP that some users put in their BEACON
>texts?
>>
>>In APRS there is a facility to eliminate the APRS-generated beeps, but not a
>>command that I've seen so far to suppress the user-initiated beeping.
>>
>>Unfortunately, my TNC (a DataEngine) does not have a command (that I've
>>found, at least) to send all the CTRL-G characters to the bit-bucket.
>>
>>Any ideas?
>>
>>Mark
>>KD6KQ

413. Re: [APRSSIG:2959] Re: Test

From: dvelez@norfolk.infi.net (Daniel Velez)
Date: Wed, 23 Aug 1995 20:38:56 -0400
To: aprssig@tapr.org
Message-ID: <199508240038.UAA13307@larry.infi.net>
Rendered body type: text/plain

>I am also getting it. I thought maybe I had some cc: set up somehow, but I
>am clean. Anyone else know why Bill and I are getting the redriver bounced
>emails from the SIG?

>
>Ralph
>N4NEQ
>

>
>>This is a test message, i keep getting errors in my sig mail and also an
>>address in the header like follows.
>>

>>postmaster@redriver.ksc.nasa.gov

>>
>>Anyone have any ideas on this address...
>>
>>
>>
Ditto here....

Dan

414. Re: [APRSSIG:2985] Re: APRS beeps

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 23 Aug 1995 20:51:01 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.950823204933.5771B-100000@laraby.tiac.net>
Rendered body type: text/plain

> I use the junk filter up here in Northern California and the screen still
> keeps blanking out. I am hearing BBSs and nodes on 145.01 that seem to be
> sending something that blanks the screen.
>
> Any ideas what else I can set to keep this from happening. I hate to keep
> hitting the space bar to bring the display back all the time.
>
> Randy
> WA2AGE

Just a suggestion, could this be the 'screesaver' mode? I see something about 'screesaver' when I hit the "tab" key. But I haven't found anything in the docs about it yet.

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

415. ILMAPS2A.ZIP

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Wed, 23 Aug 1995 22:11:54 -0400 (EDT)
To: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Cc: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9508232253.A23132-a100000@acme>
Rendered body type: text/plain

Now available on my LLBBS (awaiting for someone to snag it and put it where it can be DL'ed from the "Net") ILMAPS2a.ZIP
I finished off Tazwell, Fulton, McLean, and Peoria Counties, added in WB4APR's ILWEST.MAP, and put together a new MAPLIST.IL.
Sure, I finsh it off at the end of the severe storm season.....

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
"Will do maps for equipment"
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 143th most knowledgable person about A.P.R.S.

416. Success with HSP Cable!!

From: Richard Garcia <p015139b@pbfreenet.seflin.lib.fl.us>
Date: Wed, 23 Aug 1995 22:48:02 -0400 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Cc: paul@paccomm.com
Message-ID: <Pine.3.89.9508232223.A11666-0100000@pbfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

After many nasty hours of trying various configurations and suggestions from both Bob WB4APR and Paul at PacComm I have finally been able to succeed with geting the HSP cable to work!

My configuration is as follows....

Toshiba Satellite 2105CS Notebook

Garmin GPS-50

PacComm HandyPacket

PacComm HSP CAble board revision 1.01

The HSP cable must be powered from inside the HandyPacket, I have taken +v from the battery pack solder point at the front PC board and run a small wire to Pin 9's solder pad at the rear of the mail PC board. From here run another wire into the main HSP circuit board and solder to pin 6 at the 9 pin connector. Problem #1 is now Solved! no power for circuit..

Add a 1K resistor accross TD3 which is at the bottom right of the circuit board when looking at the first 5 pins of the DB 9 connector pointing up. I suggest to use a 1/8 watt resistor since the SMC resistor you are adding this to is quite small.

I will explain this a little better if anyone has the need for it. I forget which transistor to look at for switching but this will be a good point to check if you are wondering what is going on. Right now ALL of the equipment is in the truck which is in 2ft of water after Tropical Storm Jerry passed directly over this QTH! I am not going out there now to get more exact locations and readings from the circuit board!

I thank Paul and Bob for the several phone conversations this past week so I could have this working by Friday. I am looking forward to see everyone in range of I-95 this Friday and Saturday from FL to NJ, and I will be in NJ and DC areas for about another week before the trip back South.

	73 de Rich Garcia N2CZF/4	
	Packet Address: N2CZF@WB4MOZ.#WPBFL.FL.USA	
	Internet Mail : p015139b@pbfree.net.seflin.lib.fl.us	
	"UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR"	
	LATITUDE : 2654.86N LONGITUDE : 8014.48W	
	Jupiter Farms Florida	
	HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79	

417. "*" on D page?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 23 Aug 1995 22:47:02 -0400 (EDT)
To: APRS sig group <aprssig@tapr.org>
Message-ID: <Pine.BSF.3.91.950823224006.6172A-100000@laraby.tiac.net>
Rendered body type: text/plain

Can someone straighten me out, please?

On the 'D'page (where the PATH of each station heard is shown) what is the meaning of the "*" before and/or after the station call in the first colum? I understand that IN THE DIGI PATH it means that it was the last station that you heard digi the listed call. (I'm not asking about the digi path, but the first colum listing)

I understood that when the "*" is BEFORE the call (in the first colum) that I was able to hear the station directly. But I see such listings on stations well outside of my call area, and can only reach me via HF.

What does the "*" mean AFTER the call? BEFORE & AFTER?

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

418. Re: [APRSSIG:2994] "*" on D page?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 24 Aug 1995 00:19:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950824001650.20176F-100000@greatlakes>
Rendered body type: text/plain

On Wed, 23 Aug 1995, Richard Amirault wrote:

> I understood that when the "*" is BEFORE the call (in the first colum)
> that I was able to hear the station directly. But I see such listings on
> stations well outside of my call area, and can only reach me via HF.

THAT WAS A BAND OPENING!

Unfortunately, all it takes is for you to hear one packet via tropo, meteor scatter, airplane reflection, or any other mode that lets you hear the packet DIRECT. From then on the * (added by APRS) STAYS THERE... You have no way of knowing how many got through direct. But you can turn CONTROLS-FILTERS-DIRECT on and then your station will IGNORE ALL packets EXCEPT those that are direct so then your HEARD log only will see DIRECT packetts..... But you wont see anything else... hi hi

419. Re: [APRSSIG:2962] CAN DO APRS on B: drive!

From: rwf@mindspring.com (rwf)
Date: Thu, 24 Aug 1995 00:27:52 -0400
To: aprssig@tapr.org
Message-ID: <199508240427.AAA14241@dylan.mindspring.com>
Rendered body type: text/plain

Very good, Bob- thanks. I did do a "Help Append" on this borrowed laptop and it seems to have the command in the version of DOS on here (6.??). I hope it is present in Dos 3.1 which i what I use on the old laptop. The later versions are too darn big in both memory requirements and disk space requirements.

Will try it after I return from vacation. Gotta go home today :(
Ralph

>
>On Tue, 22 Aug 1995, rwf wrote:
>
>> Since you are supporting old CGA laptops (and I do have one- a Toshiba
>> 1200), how about allowing us to specify what drive (I have A and B, but no
>> C) certain things are on. I'd like to put maps on my 2nd 720 K floppy, but
>> right now it sits unused. I think Phil wants the same thing
>
>APR REPLY: Its built into DOS. Just use the APPEND command. Someone
>posted how to do it, but I cant find it. APPEND can be used to tell your
>PC to search not only the specified drive, but also an other drive
>looking for a file....
>
>
>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV and Ham info

FTP: [ftp.mindspring.com/users/rwf](ftp://mindspring.com/users/rwf) for ATV, GPS, APRS info

420. Re: [APRSSIG:2968] Garmin GPS 40 External Antenna

From: rwf@mindspring.com (rwf)
Date: Thu, 24 Aug 1995 00:27:54 -0400
To: aprssig@tapr.org
Message-ID: <199508240427.AAA14259@dylan.mindspring.com>
Rendered body type: text/plain

It sure looks like the OSX connector used on the Motorola Active antennas and the Motorola boards. Anyone got a motorola AND a Garmin give it a try with.

>My gps unit for APRS is a Garmin GPS 40, the External antenna connector for
>it is a Garmin special. Has anyone run across just the Connector for the
>'40.
>
>
>
>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV and Ham info

FTP: [ftp.mindspring.com/users/rwf](ftp://mindspring.com/users/rwf) for ATV, GPS, APRS info

421. Re: [APRSSIG:2975] Re: GPS - Paccomm

From: rwf@mindspring.com (rwf)
Date: Thu, 24 Aug 1995 00:27:56 -0400
To: aprssig@tapr.org
Message-ID: <199508240427.AAA14267@dylan.mindspring.com>
Rendered body type: text/plain

OOPS!!! My bad! Sorry Gwyn. The "them" was Kantronics. Paccomm, as always, continues to very helpful and supportive of the GPS (and APRS) community!!!

Ralph

>ref N4NEQ's message about speaking with 'them' at the Huntsville Hamfest:
>I hope it is obvious he was speaking to Kantronics, not PacComm as one
>might infer from the subject line.
>
>Just making sure....
>
>-----
>Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org
>
>+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)
>
>PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618
>
>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: http://www.mindspring.com/~rwf for ATV and Ham info
FTP: ftp.mindspring.com/users/rwf for ATV, GPS, APRS info

422. World Record Attempt, High Power Rockets

From: fred.mccay@totrbbs.radio.org (Fred Mccay) (by way of rwf@mindspring.com (rwf))
Date: Thu, 24 Aug 1995 00:28:01 -0400
To: aprssig@tapr.org
Message-ID: <199508240428.AAA14279@dylan.mindspring.com>
Rendered body type: text/plain

Maybe someone on the Fox-list can help. This message crossposted
from r.r.a.homebrew... -Fred KD4WOS

And now I cross post to APRS SIG

Ralph

@SUBJECT:World Record Attempt, High Power Rockets
@FROM :UYFA59A@prodigy.com
@MSGID :<415t18\$12ui@usenetz1.news.prodigy.com>
From: UYFA59A@prodigy.com (James Cullen iv)
Newsgroups: rec.radio.amateur.homebrew
Date: 19 Aug 1995 23:44:40 GMT
Message-ID: <415t18\$12ui@usenetz1.news.prodigy.com>

Help!

The Las Vegas chapter of Tripoli -- the national association of high
power rocket enthusiasts -- is preparing to challenge the world
altitude record for high power rockets -- currently about 37,000 feet.
We need help locating plans or a schematic for a tracking transmitter,
antenna and receiver for the record attempt. Here's what we need:

The transmitter must be able to fit into a tube that is 1-1/2" in
diameter and no longer than 12 inches. It must operate for a minimum
of one hour on batteries and be as light as possible. The operating
frequency is not important as long as it is in the amateur bands. We
need a minimum range of about 15 miles line of sight. The body of the
rocket is constructed from phenolic-impregnated Kraft paper overwrapped
with fiberglass. An antenna can be glued to the outside of the rocket
body -- perhaps copper foil tape or some similar method. Radiation
pattern from the transmitter should be omnidirectional, because we have
no idea as to the position in which the rocket will land.

The receiver can be just about anything that we can carry, as long as
it is battery operated. The receiving antenna should be highly
directional and hand held.

If you have any suggestions on how I can obtain or construct a
transmitter/receiver combination that will accomplish this task, please

e-mail me at

UYFA59A@ Prodigy.Com

If you have any interest in being a part of this, let me know also.
The attempt will be made in about 6 months, most likely in the Black
Rock Desert of northern Nevada -- about 80 miles NNE of Reno.

Thanks very much for your assistance.

Jim Cullen, KA7RAF
9456 Mast Drive
Las Vegas, NV 89117-0286
(702) 254-8815

Top Of The Rock BBS - Lilburn, GA SYSOP: Steve Diggs
Phone: +1 404 921 8687 Snailmail: 4181 Wash Lee Ct.
Lilburn, GA 30247-7440

423. Re: [APRSSIG:2992] ILMAPS2A.ZIP

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Thu, 24 Aug 1995 06:23:41 -0500
To: aprssig@tapr.org
Message-ID: <199508241120.GAA16784@psycfrnd.interaccess.com>
Rendered body type: text/plain

> Now available on my LLBBS (awaiting for someone to snag it and
>put it where it can be DL'ed from the "Net") ILMAPS2a.ZIP

John,
Got it and posted it on TAPR ftp this am...

Thanks for making them, how about kane/dupage counties, any chance, :)

Ed
N9LCI>

424. Re: [APRSSIG:2990] Re: Test

From: dwetzel@acs.uswest.com
Date: Thu, 24 Aug 1995 08:55:02 -0500
To: aprssig@tapr.org
Message-ID: <03c7e290@acmospgw1.mnet.uswest.com>
Rendered body type: text/plain

>I am also getting it. I thought maybe I had some cc: set up somehow, but I
>am clean. ANYone else know why Bill and I are getting the redriver bounced
>emails from the SIG?
>
>Ralph
>N4NEQ
>
>
>
>>This is a test message, i keep getting errors in my sig mail and also an
>>address in the header like follows.
>>
>>postmaster@redriver.ksc.nasa.gov
>>
>>Anyone have any ideas on this address...
>>
>>
>>
Ditto here....

I also get the bounce, but the mail posts correctly anyway. Also using cc:

weird.

Doug
KC7CO

Dan

425. Re: [APRSSIG:3001] Re: Test

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 24 Aug 1995 11:25:20 -0500 (CDT)

[illegible]

Tom, Maryland Emergency Management has had a demonstration of APRS. Some of the Maryland counties and the District of Columbia have also used APRS in their Emergency Operations Centers for ARES/RACES and public service

operations. SKYWARN should be part of your ARES network and APRS can be a very valuable tool for that network. Contact your ARRL Section Manager and set up a demo of APRS for him. It works for me! 73 - Bill WB3V MDC Section Manager

>Here's a question from a relatively new APRS user.
>
>In Southern Wisconsin, APRS activity is just about zero. However, a couple
>of us who are involved in SKYWARN are exploring APRS as a receive-only
>system at the new NWS office between Madison and Milwaukee. As we were
>discussing this with NWS personnel, we were shown a software program which
>takes the "Radar Coded Message" generated by the NEXRAD radar system (a
>file about 5k in length) and displays a simple NEXRAD radar plot on a map.
>
>I'm wondering if anyone out there has explored this APRS-like system and if
>so, how have they employed it in their SKYWARN nets? Could it be integrated
>into APRS like the NWSPARSE program?
>
>And, if anyone is currently using APRS in ANY fashion as a SKYWARN tool, I
>would like to hear how you're doing it.
>
>
>
>Tom Weeden, WJ9H
>Net Manager, South-Central Wisconsin SKYWARN Net/146.88
>
>WMTV.tom.weeden@madison-business.com
>tcweeden@aol.com
>
>

Bill Howard wjh@ideas.com
Science Applications International Corporation, Ideas Group
7120 Columbia Gateway Dr., Columbia, MD 21046 Voice:(410)312-2060
Fax:(410)312-2250

428. Bounces (was Re: [APRSSIG:3002] Re: Test)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 24 Aug 1995 13:51:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.950824134520.171A-100000@n2wx.ampr.org>
Rendered body type: text/plain

So far at least three folks have complained about bounce messages.

I've never seen a one of these; I imagine those of us who do more lurking than posting here haven't seen them either.

It appears these bounces are not coming from the list, but rather they are travelling direct from the bouncing MTA to those who are posting to the list. To confirm, check the headers on your bounced mails. sys1.tapr.org does not appear as a Received: MTA.

Whoever owns this list (Bob?) may want to ask Lee to run the script that'll help you detect and remove the bounces.

The listproc Lee deals quite well with bounces that go back to the listproc. But those that head back to the author (the guy in the From: header) can't be detected by listproc.

Howie

--

Howard Goldstein, N2WX <hg@n2wx.ampr.org> <http://www.tapr.org/~n2wx/>

429. Re: [APRSSIG:3005] Bounces (was Re: Re: Test)

From: wjh@ideas.com (William J. Howard)
Date: Thu, 24 Aug 95 14:38:19 EDT
To: aprssig@tapr.org
Message-ID: <9508241838.AA29614@ideas.com>
Rendered body type: text/plain

I agree with Howie, here is the header from a bounce off my last post:

Return-Path: <Mailer-Daemon>
From: POSTMASTER@redriver.ksc.nasa.gov
To: wjh@ideas.com
Subject: Mail failure
Date: Thu, 24 Aug 95 14:20:00 EDT

[002] Mail was received that was addressed to unknown addresses.
Mail item was not delivered to:
PAYLOADS/REDRIVER/nguyent

So it looks like there may be a bad address in APRSSIG for a NASA user.

>So far at least three folks have complained about bounce messages.
>
>I've never seen a one of these; I imagine those of us who do more lurking
>than posting here haven't seen them either.
>
>It appears these bounces are not coming from the list, but rather they are
>travelling direct from the bouncing MTA to those who are posting to the
>list. To confirm, check the headers on your bounced mails. sys1.tapr.org
>does not appear as a Received: MTA.
>
>Whoever owns this list (Bob?) may want to ask Lee to run the script
>that'll help you detect and remove the bounces.
>
>The listproc Lee deals quite well with bounces that go back to the
>listproc. But those that head back to the author (the guy in the From:
>header) can't be detected by listproc.
>
>Howie
>
>--
>Howard Goldstein, N2WX <hg@n2wx.ampr.org> <http://www.tapr.org/~n2wx/>
>
>
>

Bill Howard wjh@ideas.com
Science Applications International Corporation, Ideas Group
7120 Columbia Gateway Dr., Columbia, MD 21046 Voice:(410)312-2060
Fax:(410)312-2250

430. Corrections to PacComm HSP Fix

From: Richard Garcia <p015139b@pbfree.net.seflin.lib.fl.us>
Date: Thu, 24 Aug 1995 14:50:42 -0400 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Cc: bob bruninga <bruninga@nadm.navy.mil>
Message-ID: <Pine.3.89.9508241443.B16081-0100000@pbfree.net.seflin.lib.fl.us>
Rendered body type: text/plain

I should have never composed the message I did last night while I was half asleep! The component's I had mentioned were not intered correctly the fix stays the same but there are the correct parts ID.
1K resistor 1/8W tack soldered across RD6 a SMC resistor.
To check the proper HSP switching monitor the voltage change at the collector of TD4 a SMC Transistor. This will be the lead on the "long" side of the part next to RD10. I get about +6 volts when it toggles.
This may or may not be necessary but in the TNC's connector (HSP Cable) I have inserted a 10K 1/4 W resistor at pin #4 which is a brown wire. Since it is working now I am not messing with it, try yours without it, if it fails try adding the resistor, I am not going to bother taking mine out.

Take all of this with a grain of salt!! This fix may or may not work for you. It seems that the fix will vary depending on what equipment you are using. This does work with a Toshiba Satellite Notebook, Garmin GPS-50 and a PacComm Handypacket TNC. The real problem with the circuit seems to be that everyones equipment is a little different and the circuit needs to be modified to make up for variations in voltage and voltage differentials. Hope this helps someone.....

	73 de Rich Garcia N2CZF/4	
	Packet Address: N2CZF@WB4MOZ.#WPBFL.FL.USA	
	Internet Mail : p015139b@pbfree.net.seflin.lib.fl.us	
	"UNOFFICIAL SOUTH FLORIDA APRS COORDINATOR"	
	LATITUDE : 2654.86N LONGITUDE : 8014.48W	
	Jupiter Farms Florida	
	HF GATES: 10.151.49 Mhz LSB and 7.085 LSB (P/T) to 145.79	

431. Re: [APRSSIG:3003] APRS & Skywarn

From: jneely@eden.com (Jim Neely)
Date: Thu, 24 Aug 95 14:17:09 EDT
To: aprssig@tapr.org
Message-ID: <199508241921.0AA17921@matrix.eden.com>
Rendered body type: text/plain

On Thu, 24 Aug 1995 12:11:58 -0500 you wrote:

The RCM system is in place and working in Tulsa. It outputs a fairly small ascii file, which is put on TexNet and available for d/l.

The display software was written by a NWS employee. It looks good and there are a number of us trying to get the NexRad feed to do the same thing.

Good luck...jn

>Here's a question from a relatively new APRS user.
>
>In Southern Wisconsin, APRS activity is just about zero. However, a couple
>of us who are involved in SKYWARN are exploring APRS as a receive-only
>system at the new NWS office between Madison and Milwaukee. As we were
>discussing this with NWS personnel, we were shown a software program which
>takes the "Radar Coded Message" generated by the NEXRAD radar system (a
>file about 5k in length) and displays a simple NEXRAD radar plot on a map.
>
>I'm wondering if anyone out there has explored this APRS-like system and if
>so, how have they employed it in their SKYWARN nets? Could it be integrated
>into APRS like the NWSPARSE program?
>
>And, if anyone is currently using APRS in ANY fashion as a SKYWARN tool, I
>would like to hear how you're doing it.
>
>
>
>Tom Weeden, WJ9H
>Net Manager, South-Central Wisconsin SKYWARN Net/146.88
>
>WMTV.tom.weeden@madison-business.com
>tcweeden@aol.com
>
Jim Neely
jneely@eden.com wa5lhs@tapr.org

432. Re: [APRSSIG:3004] Re: APRS & Skywarn

From: taf8892@madison.tec.wi.us (Tom Fleming)
Date: Thu, 24 Aug 1995 14:36:45 -0500
To: aprssig@tapr.org
Message-ID: <199508241926.0AA14777@mail.madison.tec.wi.us>
Rendered body type: text/plain

Bill Howard writes:

>Maryland Emergency Management has had a demonstration of APRS. Some of
>the Maryland counties and the District of Columbia have also used APRS in
>their Emergency Operations Centers for ARES/RACES and public service
>operations. SKYWARN should be part of your ARES network and APRS can be a
>very valuable tool for that network. Contact your ARRL Section Manager and
>set up a demo of APRS for him. It works for me! 73 - Bill WB3V MDC Section
>Manager

I would like to know how APRS is used into SKYWARN.

```
-----
Tom Fleming - Network Tech      | Life too short to be   |
Postmaster                    | dull. So turn off the |
Madison Area Tech College     | the TV and enjoy life |
Internet   : taf8892@madison.tec.wi.us |
Callsign   : N9SZF          |
Phone      : 608-246-6140    |
-----
```

433. Re: [APRSSIG:3002] Re: Test

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Thu, 24 Aug 1995 16:44:31 -0400

To: aprssig@tapr.org
Cc: ksproul@hardees.rutgers.edu
Message-ID: <199508242044.QAA05505@dylan.mindspring.com>
Rendered body type: text/plain

So Keith Sproul- You are the host. Can you get payloads redriver whatever the heck it is OFF our list so we don't have all the wasted bandwidth. Shame on whoever that is for leaving and not telling the listserv. How about someone spoofing into the listserv and doing an unsubscribe for that person?

At 11:33 AM 8/24/95 -0500, you wrote:

>dwetzel@acs.uswest.com sez:

>>

>> >I am also getting it. I thought maybe I had some cc: set up somehow, but I
>> >am clean. ANYone else know why Bill and I are getting the redriver bounced
>> >emails from the SIG?

>> >

>> >>This is a test message, i keep getting errors in my sig mail and also an
>> >>address in the header like follows.

>> >>

>> >>postmaster@redriver.ksc.nasa.gov

>>

>> Ditto here....

>>

>> I also get the bounce, but the mail posts correctly anyway. Also using cc:

>>

>> weird.

>

>Not really. This list replaces the Reply to: header with its address. So, if
>anything bounces for any reason, the whole list gets the bounce message.

>

>That's A minor failing of some of the listserver software out there... Some of
>the packages are better than others about handling bounces, as well. What
>*should* happen is the postmaster or listowner of the list should get all of
>these if Sendmail was configured the way I like it...

>

>73, gerry

>

>

>--

>Gerry Creager N5JXS

* SAREX Co-Investigator

>gerry@cs.tamu.edu

* A little radio that lets kids talk

* to astronauts, and smile

>*****

>

>

434. Re: [APRSSIG:2995] Re: "*" on D page?

From: daveh@moose.erie.net (David G. Henderson)

Date: Thu, 24 Aug 1995 17:37:49 -0300

To: aprssig@tapr.org

Message-ID: <m0sljwd-000fz3C@moose.erie.net>

Rendered body type: text/plain

Hi Gang,

>Unfortunately, all it takes is for you to hear one packet via tropo,
>meteor scatter, airplane reflection, or any other mode that lets you hear
>the packet DIRECT. From then on the * (added by APRS) STAYS THERE...

Bob, the confusion is that if a VHF LAN station is hearing the GATE station direct then star is put in front of that line. This makes it appear that the timbuctoo station was heard direct even though the packet came via the gateway.

Check this please and advise if we're misinterpreting. We discovered this a couple of weeks ago and I was supposed to advise you but it slipped my mind.

73

Dave, N3E0Y

435. Re: [APRSSIG:3010] Re: Test

From: Keith Sproul <ksproul@hardees.rutgers.edu>

Date: Thu, 24 Aug 95 17:53:09 EDT

To: aprssig@tapr.org

Message-ID: <CMM-RU.1.4.809301189.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

I am NOT the host, I am just the 'chairman' TAPR is the actual group that runs this list server.. I am getting the info forwarded to the right people at TAPR..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

436. Re: [APRSSIG:3005] Bounces (was Re: Re: Test)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 24 Aug 1995 17:19:16 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508242219.RAA00848@solar.cs.tamu.edu>
Rendered body type: text/plain

Howard Goldstein sez:

>
> So far at least three folks have complained about bounce messages.
>
> I've never seen a one of these; I imagine those of us who do more lurking
> than posting here haven't seen them either.
>
> It appears these bounces are not coming from the list, but rather they are
> travelling direct from the bouncing MTA to those who are posting to the
> list. To confirm, check the headers on your bounced mails. sys1.tapr.org
> does not appear as a Received: MTA.
>
> Whomever owns this list (Bob?) may want to ask Lee to run the script
> that'll help you detect and remove the bounces.
>
> The listproc Lee deals quite well with bounces that go back to the
> listproc. But those that head back to the author (the guy in the From:
> header) can't be detected by listproc.
>
> Howie
>
> --
> Howard Goldstein, N2WX <hg@n2wx.ampr.org> <http://www.tapr.org/~n2wx/>
>
>

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

437. Re: [APRSSIG:3005] Bounces (was Re: Re: Test)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 24 Aug 1995 17:21:35 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508242221.RAA00887@solar.cs.tamu.edu>
Rendered body type: text/plain

Good points, Howie. I revisited the bounced messages I'm getting and the MTA at KSC appears to be parsing the From: line correctly, and sending messages to the originator. Since I'm not worrying about it (I read those with the D key usually) it's no issue for me.

My comment, now obviously in error, was a knee-jerk answer based on previous experience. I really should have delved into it deeper!

73, gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

438. Re: [APRSSIG:2994] "*" on D page?

Richard - you have it right: a "*" left of the call means you heard it direct. The tropo we've been seeing lately has brought in stations up and down the east coast to quiet Virginia Beach. I suspect it's happening to you, too.

>Can someone straighten me out, please?

```
>I understood that when the "*" is BEFORE the call (in the first colum)
>that I was able to hear the station directly. But I see such listings on
>stations well outside of my call area, and can only reach me via HF.
```

```
>  
>Richard Amirault          N1JDU          Boston, Massachusetts USA  
>amirault@tiac.net        "Go Fly A Kite"
```

439. Re: [APRSSIG:3011] Re: "*" on D page?

On Thu, 24 Aug 1995, David G. Henderson wrote:

APR RELY: No, it still got digipeated by the GATE, so it will NOT show with a * on the left. If you see a star, then it was DIRECT... (or at least that is what the code is trying to do, hi hi.

From: KSwaggart@aol.com
Date: Thu, 24 Aug 1995 21:58:07 -0400
To: aprssig@tapr.org
Message-ID: <950824215806_82743004@mail06.mail.aol.com>
Rendered body type: text/plain

So... any ideas from the Windows gurus on APRS. I'm using a Dell 486D/50MHz with 8 megs RAM.

441. Re: [APRSSIG:3008] Re: APRS & Skywarn

From: BenWS5R@aol.com
Date: Thu, 24 Aug 1995 22:45:55 -0400
To: aprssig@tapr.org
Message-ID: <950824224554_62762004@mail06.mail.aol.com>
Rendered body type: text/plain

We are presently generating interest and activity in the Texas Panhandle concerning APRS, primarily for use as an ARES and SKYWARN tool. I have been promised the access to RCM data to transmit on packet this year. I am primarily interested in how other groups, areas, etc. are using APRS in ARES and SKYWARN operations, I envision it making it a lot easier to keep track of sometimes 20+ spotters spread out over 250-300 miles chasing numerous storms as an ARES EC and SKYWARN net manager. Any thoughts and ideas on how APRS is being used in ARES/SKYWARN operations would be appreciated.

73 from the land of Tornadoes, had 64 confirmed in 31 county Area thanks to the excellent work of the ARES spotters. Ben WS5R Potter County Texas ARES EC

442. Re: [APRSSIG:2996] Re: CAN DO APRS on B: drive!

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Thu, 24 Aug 1995 23:01:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.950824225756.1954A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Wed, 23 Aug 1995, rwf wrote:

> Very good, Bob- thanks. I did do a "Help Append" on this borrowed laptop and
> it seems to have the command in the version of DOS on here (6.??). I hope
> it is present in Dos 3.1 which i what I use on the old laptop. The later
> versions are too darn big in both memory requirements and disk space
> requirements.

>
> Ralph Fowler, N4NEQ S.E.R.A. ATV Technical Advisor

Ralph, there is NO need to load all of MSDos 6.2 !

6.2 iw what I run on my 8088, dual 720 floppy (no hard drive) laptop.
Remember, the bare 'minimum' is a 'bootable' floppy, then you can add
additional files/programs as your disk allows.

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

443. (fwd) Re: Garmin GPS users' mailing list created (fwd)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 25 Aug 1995 00:10:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.950825000902.397A-100000@n2wx.ampr.org>
Rendered body type: text/plain

FYI for you Garmin guys, an (unofficial) Garmin mailing list

----- Forwarded message -----
Newsgroups: rec.aviation.products,rec.aviation.misc
Subject: Re: Garmin GPS users' mailing list created
Date: 21 Aug 1995 21:34:51 GMT
|> corwin@microtech.com "Corwin Nichols" writes:
|>
|> > <snip>
|> >
|> > To subscribe to this mailing list, send a one line message which
|> reads:
|> > subscribe garmin
|> > to the address "maiser@microtech.com". Please make a careful note of
|> the
|> >

444. RE: [APRSSIG:2955] 10% off

From: Bob Sayers <bsayers@implex.co.uk>
Date: Wed, 23 Aug 95 09:21:28 +0
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.950823092500.bsayers@>
Rendered body type: text/plain

>
>Seems like the next few days would be a good time to get that
>GPS-45 that you've been eyeing up for a while
>Should work out at around \$270 plus tax.
>
Bet you're glad that you "emigrated", Paul - the '45 is currently on "special offer" at one major amateur radio outlet at the cheapest price I have yet seen one in the UK. How much? #285!
(Yes, that's a "#", not a "\$".....)

Bob Sayers, West Midlands Emergency Planning Unit,
West Midlands Fire Service, Lancaster Circus, Birmingham, UK
eMail: bsayers@epline.implex.co.uk
Telecom Gold/Copost: 10092:LLA3058
AX.25: G8IYK
ampr: g8iyk
'phone: 0121-380-7611 fax: 0121-359-5108
Date: 08/23/95 Time: 09:21:28

445. APRS in ZS-area

From: INFOPLAN.IPLAN1.LOUISK@cape_smtg_gw.iplan.co.za
Date: Fri, 25 Aug 1995 12:46:51 +0200
To: aprssig@tapr.org
Message-ID: <s03dc624.091@cape_smtg_gw.iplan.co.za>
Rendered body type: text/plain

First wai :Louis Kruger ZR6ABC. Vice-chairman of SA Amateur
Telecommunications Institute. (SAATI)

I am very interested in APRS and am trying to get APRS promoted in South Africa. I regularly take the APRSSIG messages and upload it as buletins on the ZAF packet network. After a week or so I send out a test message to find out what the interest were and got a few replies that I must please not stop, even from a guy in Zimbabwe.

To enable me to promote it further here I have a few questions that somebody on this SIG can help me with.

1. How and where can I register ?
2. What do one have to do to become a map coordinator, for our country and for our local regions ?
3. I can lay may hands on maps in Vector Relational Format, is there any conversion programme for that ?
4. Do anybody have a description of the DLG format of the USGS CDs, so if necessary that I can try to write a convertor for APRS from DLG (Digital Line Format) ?
5. I can be reached at :
Louis.Kruger@iplan.co.za;
ZR6ABC@ZS0DL.D.TVL.ZAF.AF,
(27) (12) 345-3275 (H)
(27) (12) 450-2530 (W)
TZ=GMT+2.

73's de Louis, ZR6ABC.
(I don't have wisecrack now !)

446. APRS in ZS-area (South Africa)

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 25 Aug 95 9:12:55 EDT
To: aprssig@tapr.org, Louis.Kruger@iplan.co.za
Message-ID: <CMM-RU.1.4.809356375.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

RE: South Africa Maps

I have some world data that will be able to be converted to PC-APRS maps in the near future.. Sometime early fall? I will keep this list informed of what is going on with this world data so that you can get some good maps of South Africa.

- > I can lay may hands on maps in Vector Relational Format, is there any
> conversion programme for that ?

Can you give me a pointer to this data? I can write the converters for it fairly quickly? I need the data itself and a description of it..

Keith Sproul

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

447. Re: [APRSSIG:2534] Re: Map file format question

From: dwetzel@acs.uswest.com
Date: Fri, 25 Aug 1995 10:04:48 -0500
To: aprssig@tapr.org
Message-ID: <03ddfd50@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

I seem to have flushed the message posted which gave the usgs ftp site - can someone please repost?

Thanks!

Doug

KC7CO

Radio Free Utah

448. APRS Novell NET

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 25 Aug 1995 20:43:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950825203202.15439B-100000@greatlakes>
Rendered body type: text/plain

For the last year or so, APRS has been able to operate in a multiple PC network cobbled together in the field, by simply connecting multiple PC's via 2 or 3 conductor zip cord to a single TNC/RADIO. In an emergency operations center, this has the potential to give every operator and individual full APRS access to the tactical picture, focused on his own immediate communications needs. The beauty of the parrallel RS-232 connection is that it takes nothing but connectors (see OPS.txt). No special software or networking configuration is required.

I never thought that there would ever be a group of HAMS all already connected by a permanent network, so I never looked much further than that minimum capability. Now I have been approached by a small company that wants everyone in the office to have APRS access for tracking their vehicles...

HERE IS THE RESULT:

APRSNET.txt APRS NETWORKING

APRS can be operated in a multi-station environment so that many PC's on a network can see the APRS tactical picture being maintained on one MASTER APRS PC. Typical applications would be a company where many people throughout the organization need to see the location of their mobile units. One PC on the local area network is dedicated to APRS, and is connected to the single radio and TNC. This PC periodically posts a file containing the complete APRS tactical picture. Then any other PC on the network can be configured to come up as a slave APRS station. The slave PC will automatically download the tactical data file and present the user with the latest displays as if they had been running all along.... These slaves cannot send any packets, they have read-only access.

Again, since I see no HAM application, this is only a commercial option. But it sure is neat! Of course, if your EOC already has a local area net, then this is ideal. Our EOC only has ONE PC in the whole building!

449. Re: [APRSSIG:3025] APRS Novell NET

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Fri, 25 Aug 1995 22:20:59 -0400

To: aprssig@tapr.org
Message-ID: <199508260220.WAA21457@dylan.mindspring.com>
Rendered body type: text/plain

Oh Bob!

This would be the answer to a big problem I have! I have a network here in the house, and N4NBL has a 12 station Novell network in his house. (I know, "Computer Geeks")

It would be great for my basement APRS station in the shack to write a file out to the lan that my upstairs PC (no radios nearby) could read. It seems like it could also be the basis to some internet linking of APRS nets.

Ralph

t 07:57 PM 8/25/95 -0500, you wrote:
>For the last year or so, APRS has been able to operate in a multiple PC
>network cobbled together in the field, by simply connecting multiple PC's
>via 2 or 3 conductor zip cord to a single TNC/RADIO. In an emergency
>operations center, this has the potential to give every operator and
>individual full APRS access to the tactical picture, focused on his own
>immediate communications needs. The beauty of the parrallel RS-232
>connection is that it takes nothing but connectors (see OPS.txt). No
>special software or networking configuration is required.
>
>I never thought that there would ever be a group of HAMS all already
>connected by a permanent network, so I never looked much further than
>that minimum capability. Now I have been approached by a small company
>that wants everyone in the office to have APRS access for tracking their
>vehicles...
>
>HERE IS THE RESULT:
>
>APRSNET.txt APRS NETWORKING
>
> APRS can be operated in a multi-station environment so that many
>PC's on a network can see the APRS tactical picture being maintained
>on one MASTER APRS PC. Typical applications would be a company where
>many people throughout the organization need to see the location of
>their mobile units. One PC on the local area network is dedicated to
>APRS, and is connected to the single radio and TNC. This PC periodically
>posts a file containing the complete APRS tactical picture. Then
>any other PC on the network can be configured to come up as a slave APRS
>station. The slave PC will automatically download the tactical data
>file and present the user with the latest displays as if they had been
>running all along.... These slaves cannot send any packets, they have
>read-only access.
>
>
>Again, since I see no HAM application, this is only a commercial option.
>But it sure is neat! Of course, if your EOC already has a local area
>net, then this is ideal. Our EOC only has ONE PC in the whole building!
>
>
>
>

450. DCC 95 APRS Workshop

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 26 Aug 1995 02:11:49 -0500
To: aprssig@tapr.org
Message-ID: <v02130501ac6478fb4d77@[199.1.11.103]>
Rendered body type: text/plain

Reference: 1995 ARRL Digital Communications Conference
September 8-10th, 1995 Arlington, Texas

APRS Workshop, Friday, 4pm - 7pm. Conducted by Keith Sproul, WU2Z

It is 2 weeks to go until the DCC and I am wondering if there are any items I or our Dallas APRS group (all 4 of us) can bring to your workshop and talk.

We can set up a WIDE dig in a car in the parking lot for you. I don't know if our Dallas APRS base stations will reach the conference site.

I can offer to bring my Lunch box size battery powered portable GPS tracker. It has a KPC-3, Garmin-45 with active mag mount ant and a HTX-202 7 watt Radio Shack 2 meter HT built in. I could leave it in the car to send data or in the building to try to act as a relay.

I also have a computer mobile setup that uses my two serial port PB-540c, a second KPC-3 TNC, a second Garmin-45 GPS unit with active mag mount antenna and a ICOM-W21AT 2m/70cm HT. I also have a unused PK-12 TNC.

I can bring a Apple CD-rom drive that I connect to the PB using the APS SCSI DOC. I use the CD-Rom to run the USGS disk or the Mac / PC version of Street Atlas USA. I could bring a 512 MB SCSI hard drive with backup software if needed.

The Mac PB 540c has Softwindows loaded so I can also run PC APRS and some of the PC mapping programs.

I do have a power book video adapter cable for the 540c. I also have an old Apple 13" B/W monitor I keep as a spare for the Dallas MAC/HAM BBS and the Apple 13 Color monitor that I could remove for a few days from the BBS system.

Let me know what the Dallas area APRS group can offer to do to help.

I only have the 1:2,000,000 CD-ROM maps of the Dallas Fort Worth area and if you have something better please send in advance.

I will post this to the APRSSIG so we can roundup any other local help.

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

451. Re: [APRSSIG:3025] APRS Novell NET

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Sat, 26 Aug 95 5:55:06 EDT
To: aprssig@tapr.org
Message-ID: <9508260955.AA16727@umed.med.miami.edu>
Rendered body type: text/plain

I too have a rather sizable network at my house, and I like to run MacAPRS on a computer in the shack, but since I spend most of my time on the porch (with the nice ocean breeze) I use Timbuktu to remotely control the shack computer. That gives me full access to the program, just as if it was running on the local computer. There are versions for PC's as well, and I would say this is the easiest way to accomplish this. Timbuktu allows for multiple 'watchers' that see everything on the screen, and one controller at a time. This would also work well for an EOC type setting, where many users might need to access the data.

Steve K04HD

452. position reports

From: ParkDoggie@eworld.com
Date: Sat, 26 Aug 1995 06:26:33 -0700
To: aprssig@tapr.org
Message-ID: <950826062630_13953139@eWorld.com>
Rendered body type: text/plain

Instead of setting the frequency of position reports in units of time (eg. every 5 minutes); wouldn't it make a lot more sense to specify the frequency of position reports in units of distance ? (eg. every 100 ft.) This would remove some of the clutter we are getting now with stationary vehicles beaconing away madly every few seconds and fast moving vehicles not beaconing often enough. Of course there would have to be sanity limits top & bottom: no more than once every 2 seconds; at least once every 30 minutes, or something like that. This code could exist in the aprs program, or in the tnc's (but the tnc would have to parse the gps data to determine the delta distance). The most logical place for this code to live would be in the GPS itself. What think ?

453. Re: [APRSSIG:3026] Re: APRS Novell NET

From: Bob Hartman <n8mwz@alpha.wcoil.com>
Date: Sat, 26 Aug 1995 11:01:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSD.3.91.950826104438.26690A-100000@alpha.wcoil.com>
Rendered body type: text/plain

On Fri, 25 Aug 1995, Ralph Fowler, N4NEQ wrote:
{stuff deleted}

> It seems like it could also be the basis to some internet linking of
> APRS nets.

As I understand it, some of the TCP/IP packet guys are using Internet links to cross vast distances.. To have that same ability on APRS would mean the ability of a mobile on vacation being seen and/or getting a short message back to his buddies on APRS even though he had reached an area where no path existed back to his home QTH. If this were ever to develop, I imagine that some additional features would have to be implemented to avoid redundant data, and other problems. Perhaps the Internet gateways would use some sort of a special TNC/converter to add the features of WIDE-N networks like described in "DIGIS.TXT."

73 de N8MWZ
TAWG OH89
<n8mwz@amsat.org>

454. Re: [APRSSIG:3029] position reports

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 26 Aug 1995 10:18:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950826101253.16117D-100000@greatlakes>
Rendered body type: text/plain

On Sat, 26 Aug 1995 ParkDoggie@eworld.com wrote:

> Instead of setting the frequency of position reports in units of time (eg.
> every 5 minutes); wouldn't it make a lot more sense to specify the frequency
> of position reports in units of distance ? (eg. every 100 ft.) This would
> remove some of the clutter we are getting now with stationary vehicles
> beaconing away madly every few seconds and fast moving vehicles not beaconing
> often enough. Of course there would have to be sanity limits top & bottom: no

APR REPLY: Thats sort of in there now. For APRS mobiles, a new position is not transmitted unless it is more than 80 yards from the last. Similarly on receive, new packets are NOT logged unless they pass through the same filter. I had toyed with the idea of a distance based algorithm, but then you do have fast movers, and you have boats. Sailboats go slow and want to track it closely..

All of this doesnt help the TNC tracker, unless the TNC parses the data..
It would be a nice addition to TNC's

455. Re: APRS & Skywarn

From: gbpool@redshift.com (Greg Pool)
Date: Sat, 26 Aug 1995 12:03:31 -0700
To: aprssig@tapr.org
Message-ID: <199508261903.MAA01147@axel.redshift.com>
Rendered body type: text/plain

We just got the equipment for a voice and high-speed digital station at the NWS Forecast Office in Monterey, along the Central Coast of California. My hope is we attract folks throughout the ARRL Santa Clara Valley Section (if not others) to put automatic stations on 2m using 9600-baud, as suggested in the text files that come with a download of APRS (WX.TXT):

REPORT BROADCASTS - The individual station weather conditions can be manually placed in the Beacon Broadcast from each station or automatically using the APRS WX option (\$9) and ULTIMETER-II serial interface. These reports are typically broadcast every 10 minutes. The report is also available at anytime if an APRS user sends the WX station an APRS Query. There is a special WX query that will request all WX stations to immediately report.

Anybody tried this yet?

Greg Pool WH6DT
ARES EC Monterey Peninsula

Greg Pool, Monterey, California USA
Email: gbpool@redshift.com
Web site: <http://205.155.54.2/greg/greg.html>

456. Ultimeater-II

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Sun, 27 Aug 1995 00:51:43 -0400
To: aprssig@tapr.org
Message-ID: <199508270451.AAA08153@dylan.mindspring.com>
Rendered body type: text/plain

It is my turn to ask for help. I bought an Ultimeter-II in Dayton and have finally gotten around to hooking it up. I am having some problems. Anybody got any ideas?

My shack PC pretty much has been running APRS7B the past few months. I connected the WX station and put in my reg numbers. The top of the screen said something like "getting weather Data" and just sat there. The O C W command showed me the data dribbling in from the ultimeter just fine. My dot on the map never turned blue, my entry in the P list never showed U-II, and the second line of the screen (right below "range") displayed a 45 or 50 character string beginning with the # sign.

I decided nothing was going to happen, so I decided to try version 72D.

With 72D, things happened quickly:

I saw a blue dot on the map where I was.
The pc started madly beeping (like an alarm). I could not stop it.
The upper right of the screen displayed a message like: cfig71d.apr Bad-#
The beeping slowed everything down to a crawl- Seemed like it would take forever to QUIT out of the program..

Several times, I tried deleting the CFGxxx.APR file and starting over. Each time, APRS did the same thing. I then unplugged the WX station from comm 2 and it STILL did it.

Anyone know of a a problem in 7B? Anyone hear of a problem with 7D? What am I doing wrong?

Thanks

Ralph

457. Laptop Scrunch

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Sun, 27 Aug 1995 01:00:12 -0400
To: aprssig@tapr.org
Message-ID: <199508270500.BAA09616@dylan.mindspring.com>
Rendered body type: text/plain

What's the latest on this? It has been discussed before and I know there are several brands that have it- but has anyone found a solution?

My hard drive crashed on the monochrome Compaq laptop I had, so I borrowed a color IBM Thinkpad 750.

Immediately, I noticed the dreaded "laptop scrunch". I ignored it until one day when I was playing around with the setup program for the laptop. It had an option called "expand vertically" or something similar. I activated this, and no more scrunch!

Today I was installing APRS72D on a Winbook color laptop. Again- the horrible "laptop scrunch". Try as I might, I couldn't get rid of it.

Anybody ever find out why this happens and what to do about it?

Ralph
N4NEQ

458. Re: [APRSSIG:3019] Re: CAN DO APRS on B: drive!

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Sun, 27 Aug 1995 01:04:55 -0400
To: aprssig@tapr.org
Message-ID: <199508270504.BAA10541@dylan.mindspring.com>
Rendered body type: text/plain

At 10:08 PM 8/24/95 -0500, you wrote:

>
>Ralph, there is NO need to load all of MSDos 6.2 !
>
>6.2 iw what I run on my 8088, dual 720 floppy (no hard drive) laptop.

>Remember, the bare 'minimum' is a 'bootable' floppy, then you can add
>additional files/programs as your disk allows.
>
>Richard Amirault N1JDU Boston, Massachusetts USA
>amirault@tiac.net "Go Fly A Kite"
>
>
>
Richard- how can you only load "part" of Dos 6.2. Have you ever compared
the size of the older command.com (and the 2 hidden files) with those of 6.2?
3.1 is much smaller and uses less ram. That allows more space for other
things and allows the machine to have a bit more memory for operation of the
program. Also remember that loading Dos high is not an option on an 8088,
so a small dos is very useful.

You may have thought I meant that the associated programs that go along with
DOS were too big-

73

Ralph

459. Re: [APRSSIG:3034] Laptop Scrunch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Aug 1995 10:14:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950827101114.17540B-100000@greatlakes>
Rendered body type: text/plain

On Sun, 27 Aug 1995, Ralph Fowler, N4NEQ wrote:

> What's the latest on this? It has been discussed before and I know there
> are several brands that have it- but has anyone found a solution?

APR: The only thing I can say is that APRS is "nailed" to a 640 x 350
resolution screen (or 640x200 in CGA/EGA). Many laptops may have LCD's
that permit up to 640x480, and they don't bother to convert. They just
display the 350 using only 350 of their 480 lines...

460. Re: [APRSSIG:3032] Re: APRS & Skywarn

From: BenW55R@aol.com
Date: Sun, 27 Aug 1995 11:35:54 -0400
To: aprssig@tapr.org
Message-ID: <950827113553_64433123@mail04.mail.aol.com>
Rendered body type: text/plain

Did the NWS provide the equipment or did the hams provide the equipment? Just
curious as I have seen it both ways.

461. extra node alias

From: wharrell@cris.com
Date: Sun, 27 Aug 1995 16:24:22 -0400
To: aprssig@tapr.org
Message-ID: <199508272024.QAA29238@deathstar.cris.com>
Rendered body type: text/plain

Hello Wayne in Sycamore Ga. WD4LYV

I wanted to report a recent test here with the X1J Node
software on a high site.

With a callsign and the alias that is propagated with the
node list, I thought about using the dxcluster alias
capability in the X1J. Being sysop on several Nodes in our
LAN I could test it out. Sure enough I connected, added the
DXCalias as WIDE and now the node has the normal call,
normal alias for the area, and the third alias as wide which
will digipeat packets addressed v wide... So far works great.

There is even another alias for the host mode that could be set as well... I
left them on overnight to see if the node
list has the alias in it or not, it didn't last evening...

Hope this opens ideas for areas where you want (wide digi)
but do not need it propagated through the network. Several
wide in a network would cause problems if the wide is sent
to other node sites.

73 from WD4LYV Wayne in Sycamore GA

Unless someone can convince me otherwise, this is what I want to do...

73...jn

On Sun, 27 Aug 1995 10:52:52 -0500 you wrote:

>Did the NWS provide the equipment or did the hams provide the equipment? Just
>curious as I have seen it boyh ways.
>
Jim Neely
jneely@eden.com wa5lhs@tapr.org

465. Weird IRQ and APRS

From: "Paul Knupke (CS)" <knupke@babbarge.csee.usf.edu>
Date: Sun, 27 Aug 1995 17:27:13 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950827172329.14505A-100000@babbarge>
Rendered body type: text/plain

Howdy all,

Recently we made a change to the machine I run APRS on. We have three serial devices. COM1 is the mouse, COM2 is TNC and COM3 is internal modem.

I have set com 2 to use a weird IRQ. I can get Telix to talk to the TNC but one of my packet programs including APRS will talk to the TNC. Does anyone have any suggestions to get APRS to recognize COM2 using IRQ 5?

73 Paul
KR4YL

```
=====
Paul Knupke, Jr. / Pinellas County ARES Asst. EC
knupke@babbarge.csee.usf.edu / Pinellas County Skywarn
Largo, FL USA / Fidonet 1:3603/570
Amateur Radio Callsign KR4YL / Packet @N4CNW#TPA.FL.USA.NOAM
=====
```

466. Re: [APRSSIG:3042] Weird IRQ and APRS

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 27 Aug 1995 17:48:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.950827174524.7286D-100000@laraby.tiac.net>
Rendered body type: text/plain

On Sun, 27 Aug 1995, Paul Knupke (CS) wrote:

> Howdy all,
>
> Recently we made a change to the machine I run APRS on. We have three
> serial devices. COM1 is the mouse, COM2 is TNC and COM3 is internal modem.
>
> I have set com 2 to use a weird IRQ. I can get Telix to talk to the TNC
> but one of my packet programs including APRS will talk to the TNC. Does
> anyone have any suggestions to get APRS to recognize COM2 using IRQ 5?
>
> 73 Paul
> KR4YL

I don't know a whole lot about IRQs but normally you can use COM1 and COM3 at the same time (likewise, COM2 and COM4) Since you would NEVER use the TNC and the MODEM at the same time, I would suggest moving the internal modem to COM4

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

467. Re: [APRSSIG:3032] Re: APRS & Skywarn

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Mon, 28 Aug 95 05:57:36 UTC
To: aprssig@tapr.org
Message-ID: <4447@paccomm.com>
Rendered body type: text/plain

Greg:

If I understand your posting correctly, you are using a computer running APRS, weather observation equipment, and a packet modem at each reporting site.

If you don't have a need to view/operate APRS at some sites, then the computer and APRS are not necessary. PacComm TNCs (I can't speak for

other brands) will accept the weather data directly from the observation equipment and broadcast it periodically or when queried. No need for the data to go into APRS and back into the TNC...

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org
+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)
PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

468. Re: [APRSSIG:2955] 10% off

From: mwalker@interlog.com (Mike Walker)
Date: Mon, 28 Aug 95 08:34:16 EDT
To: aprssig@tapr.org
Message-ID: <199508281234.IAA09869@gold.interlog.com>
Rendered body type: text/plain

On Tue, 22 Aug 1995 10:04:21 -0500 you wrote:

>
>Hi. Went back to my friendly (?) E&B store and got the money back
>on a foul weather suit that I should have got in the first place....
>except the till wouldn't ring up right on the sale price.
>Got the difference between the full price & the sale price
>PLUS was told there was a store wide 10% off EVERYTHING!
>
>Seems like the next few days would be a good time to get that
>GPS-45 that you've been eyeing up for a while
>Should work out at around \$270 plus tax.
>
I called E & B on Friday, and was told the Garmin 45 was still \$299
(But I wasn't aware of the 10% off).

I also asked, and they are selling several hundred units a month, and it outsells the next model by more than 10:1.

Mike Walker mwalker@interlog.com
127 High St. W. rf: va3mw@va3bbs
Mississauga, ON
L5H 1K4

469. Re: APRS & Skywarn

From: gbpool@redshift.com (Greg Pool)
Date: Sun, 27 Aug 1995 18:13:04 -0700
To: aprssig@tapr.org
Message-ID: <199508280113.SAA22383@axel.redshift.com>
Rendered body type: text/plain

From: BenW55R@aol.com
>Did the NWS provide the equipment or did the hams provide the equipment? Just
>curious as I have seen it boyh ways.

Acutally the NWS provided the equipment, partly on my pitch that we could provide the APRS interface and partly because the precedent for purchasing just Amateur equipment had been set elsewhere (e.g. Kings County, CA). My attempts to gather funds/equipment at an ARRL Section level was difficult, despite the obvious benefits.

And getting back to my original query, I am still looking for someone who has set-up automatic stations to feed WX data to a NWS office. Specifically, I was hoping to FTP a good text file to aid in building up these types of sites around the Santa Clara Valley Section, if not further. Any of you written it yet, or will we need to scratch build the system? I'd love to write it when we've got everything up and running.

Just for reference, the practical nature of APRS has not been grasped on this portion of the California coast. I'm really hoping someone has produced the white paper that would help others starting out. I'm not sure what you meant by this, Bob:

From: Bob Bruninga <bruninga@nadn.navy.mil>

>On Sat, 26 Aug 1995, Greg Pool wrote:
>>REPORT BROADCASTS - The individual station weather conditions can be manually
>>placed in the Beacon Broadcast from each station or automatically using
>>the APRS WX option (\$9) and ULTIMETER-II serial interface. These reports
>>are typically broadcast every 10 minutes. The report is also available

>>at anytime if an APRS user sends the WX station an APRS Query. There is
>>a special WX query that will request all WX stations to immediately
>>report.
>>
>> Anybody tried this yet?

>TRIED WHAT? There are dozens of folks with the U-II interface, we see
>em all the time on the maps. The WX query, much to my surprise, was not
>working and no one ever reported it as not working. A few months ago, I
>discovered that, and fixed it.

If my question was a FAQ, let me know and tell me where I can find others
without disturbing the SIG. Of course, we have not seen them on the maps
yet because we don't have APRS running yet. I was hoping that someone could
pass on some practical knowledge for others just starting out.

Greg WH6DT

Greg Pool, Monterey, California USA
Email: gbpool@redshift.com
Web site: <http://205.155.54.2/greg/greg.html>

470. RMC & Filter Callsign

From: rkramer@vaxxine.com (Ronald Kramer)
Date: Sun, 27 Aug 1995 23:40:35 -0400
To: aprssig@tapr.org
Message-ID: <9508280340.AA29720@alpha.vaxxine.com>
Rendered body type: text/plain

Question for APR, Bob can u tell me how to turn off the the circle with the
line with the vehicle on the end on those stations sending RMC.
It shure clutter's up the screen fast, on a 4mi range with 5 second beacons
for a triathalon course the map disappears awful fast with the vehicles not
on the actual track, off screen somewhere whith a long gray line.....

Second question, I thought I saw it somewhere but can not find it now
how do you turn the C filter on without going to replay and C to remove
callsigns from tracks?

Thanks in advance

Regards, Ron ... 73 de Ron
Internet: rkramer@vaxxine.com (Ron Kramer)
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

471. RE: [APRSSIG:3029] position reports

From: ACHALL@lmsmgr.lerc.nasa.gov
Date: Mon, 28 Aug 1995 10:00:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <950828100050.2021ae8a@lmsmgr.lerc.nasa.gov>
Rendered body type: text/plain

A couple of us are working on a temp. fix for this here in Cleveland.
We are playing around with PIC microcontrollers and hope to build a
blackbox to go between the GPS and the TNC. We could then leave the
TNC in unproto mode (KPC3 now can come up in unproto by default) and have
the black box beacon positions based on speed (not distance) i.e.
beacon every 30 mins if speed < 10 mph, every 5 between 10 and 35,
every mins between 55 and 100 mph and every 15 over 100 hi hi for the
the airplanes!

I know this is not the best approach but until the firmware guys add these
features to TNCs it is a stop gap plus we are playing around with the
PICS and these seems like a good first time project.

If we are sucessful I'll post the results.

73, Steve - KK4PM

472. Re: [APRSSIG:2968] Garmin GPS 40 External Antenna

From: rwf@mindspring.com (rwf)
Date: Mon, 28 Aug 1995 08:58:56 -0500
To: aprssig@tapr.org
Message-ID: <199508281259.IAA23403@dylan.mindspring.com>
Rendered body type: text/plain

It sure looks like the OSX connector used on the Motorola Active antennas
and the Motorola boards. Anyone got a motorola AND a Garmin give it a try with.

>My gps unit for APRS is a Garmin GPS 40, the External antenna connector for
>it is a Garmin special. Has anyone run across just the Connector for the
>'40.
>
>
>
>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: [ftp.mindspring.com/users/rwf](ftp://mindspring.com/users/rwf) for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up August 5th from Atlanta, GA

APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

473. Re: [APRSSIG:2975] Re: GPS - Paccomm

From: rwf@mindspring.com (rwf)

Date: Mon, 28 Aug 1995 08:59:05 -0500

To: aprssig@tapr.org

Message-ID: <199508281259.IAA23447@dylan.mindspring.com>

Rendered body type: text/plain

OOPS!!! My bad! Sorry Gwyn. The "them" was Kantronics. Paccomm, as
always, continues to very helpful and supportive of the GPS (and APRS)
community!!!

Ralph

>ref N4NEQ's message about speaking with 'them' at the Huntsville Hamfest:

>I hope it is obvious he was speaking to Kantronics, not PacComm as one

>might infer from the subject line.

>

>Just making sure....

>

>-----
>Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org

>

>+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)

>

>PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

>

>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: [ftp.mindspring.com/users/rwf](ftp://mindspring.com/users/rwf) for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming up August 5th from Atlanta, GA

APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

474. Re: [APRSSIG:2962] CAN DO APRS on B: drive!

From: rwf@mindspring.com (rwf)

Date: Mon, 28 Aug 1995 08:58:47 -0500

To: aprssig@tapr.org

Message-ID: <199508281259.IAA23378@dylan.mindspring.com>

Rendered body type: text/plain

Very good, Bob- thanks. I did do a "Help Append" on this borrowed laptop and
it seems to have the command in the version of DOS on here (6.??). I hope
it is present in Dos 3.1 which i what I use on the old laptop. The later
versions are too darn big in both memory requirements and disk space
requirements.

Will try it after I return from vacation. Gotta go home today :(

Ralph

>
>On Tue, 22 Aug 1995, rwf wrote:
>
>> Since you are supporting old CGA laptops (and I do have one- a Toshiba
>> 1200), how about allowing us to specify what drive (I have A and B, but no
>> C) certain things are on. I'd like to put maps on my 2nd 720 K floppy, but
>> right now it sits unused. I think Phil wants the same thing
>
>APR REPLY: Its built into DOS. Just use the APPEND command. Someone
>posted how to do it, but I cant find it. APPEND can be used to tell your
>PC to search not only the specified drive, but also an other drive
>looking for a file....
>
>
>

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info
ATV and GPS Balloon Flight coming up August 5th from Atlanta, GA
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

475. World Record Attempt, High Power Rockets

From: fred.mccay@totrbbs.radio.org (Fred Mccay) (by way of rwf@mindspring.com (rwf))
Date: Mon, 28 Aug 1995 08:59:18 -0500
To: aprssig@tapr.org
Message-ID: <199508281300.JAA23496@dylan.mindspring.com>
Rendered body type: text/plain

Maybe someone on the Fox-list can help. This message crossposted
from r.r.a.homebrew... -Fred KD4WOS

And now I cross post to APRS SIG

Ralph

@SUBJECT:World Record Attempt, High Power Rockets
@FROM :UYFA59A@prodigy.com
@MSGID :<415t18\$12ui@usenetz1.news.prodigy.com>
From: UYFA59A@prodigy.com (James Cullen iv)
Newsgroups: rec.radio.amateur.homebrew
Date: 19 Aug 1995 23:44:40 GMT
Message-ID: <415t18\$12ui@usenetz1.news.prodigy.com>

Help!

The Las Vegas chapter of Tripoli -- the national association of high
power rocket enthusiasts -- is preparing to challenge the world
altitude record for high power rockets -- currently about 37,000 feet.
We need help locating plans or a schematic for a tracking transmitter,
antenna and receiver for the record attempt. Here's what we need:

The transmitter must be able to fit into a tube that is 1-1/2" in
diameter and no longer than 12 inches. It must operate for a minimum
of one hour on batteries and be as light as possible. The operating
frequency is not important as long as it is in the amateur bands. We
need a minimum range of about 15 miles line of sight. The body of the
rocket is constructed from phenolic-impregnated Kraft paper overwrapped
with fiberglass. An antenna can be glued to the outside of the rocket
body -- perhaps copper foil tape or some similar method. Radiation
pattern from the transmitter should be omnidirectional, because we have
no idea as to the position in which the rocket will land.

The receiver can be just about anything that we can carry, as long as
it is battery operated. The receiving antenna should be highly
directional and hand held.

If you have any suggestions on how I can obtain or construct a transmitter/receiver combination that will accomplish this task, please e-mail me at

UYFA59A@ Prodigy.Com

If you have any interest in being a part of this, let me know also. The attempt will be made in about 6 months, most likely in the Black Rock Desert of northern Nevada -- about 80 miles NNE of Reno.

Thanks very much for your assistance.

Jim Cullen, KA7RAF
9456 Mast Drive
Las Vegas, NV 89117-0286
(702) 254-8815

Top Of The Rock BBS - Lilburn, GA SYSOP: Steve Diggs
Phone: +1 404 921 8687 Snailmail: 4181 Wash Lee Ct.
Lilburn, GA 30247-7440

476. Re: [APRSSIG:3038] extra node alias

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Sun, 27 Aug 1995 19:59:40 -0400
To: aprssig@tapr.org
Message-ID: <199508272359.TAA01902@dylan.mindspring.com>
Rendered body type: text/plain

Wayne-

I think that is what Bill Moyers in Knoxville is doing. It works great. His X1J node is not on 145.79, though. They use another frequency that already had the X1J digi and carries normal packet traffic INCLUDING a very busy BBS. They also only had 5 or 6 APRSers the last time I was there (in June). Putting Thenet or similar nodes on 145.79 would sure cause a lot of extra traffic. Here are some observations:

1. Node broadcasts are periodically made between nodes. This propagates the nodelist and creates useless packets- since you wouldn;t use that style of operation with APRS..
2. I don't see any benefit in using TheNet or Net/Rom or any other node package for APRS.
3. Having these nodes would encourage more non-APRS traffic on the frequency, and before you know it- up pops a full fledged BBS complete with forwarding right on 145.79.

If I'm way off base here, I hope someone else lets us know other views.

I hope you don't get sidetracked into using something besides 145.79 for long- We want to see you on our map up here in the Atlanta Area. Soon!!

Ralph.

PS what is your Lat/Long, so I can put a dot on the map up here.

At 03:36 PM 8/27/95 -0500, you wrote:

>
>Hello Wayne in Sycamore Ga. WD4LYV
>
>I wanted to report a recent test here with the X1J Node
>software on a high site.
>
>With a callsign and the alias that is propagated with the
>node list, I thought about using the dxcluster alias
>capability in the X1J. Being sysop on several Nodes in our
>LAN I could test it out. Sure enough I connected, added the
>DXCalias as WIDE and now the node has the normal call,
>normal alias for the area, and the third alias as wide which
>will digipeat packets addressed v wide... So far works great.
>
>There is even another alias for the host mode that could be set as well... I
>left them on overnight to see if the node

>list has the alias in it or not, it didn't last evening...
>
>Hope this opens ideas for areas where you want (wide digi)
>but do not need it propagated through the network. Several
>wide in a network would cause problems if the wide is sent
>to other node sites.
>
>I don't think the dxcalias is placed in the nodes list...
>
>73 from WD4LYV Wayne in Sycamore GA
>
>
>
>
>

477. Re: [APRSSIG:3042] Weird IRQ and APRS

From: Don Smith <kd4ksv@HiWAAY.net>
Date: Sun, 27 Aug 1995 22:51:19 -0500
To: aprssig@tapr.org
Message-ID: <9508280351.AA18628@fly.HiWAAY.net>
Rendered body type: text/plain

At 04:35 PM 8/27/95 -0500, you wrote:
>Howdy all,
>
>Recently we made a change to the machine I run APRS on. We have three
>serial devices. COM1 is the mouse, COM2 is TNC and COM3 is internal modem.
>
>I have set com 2 to use a weird IRQ. I can get Telix to talk to the TNC
>but one of my packet programs including APRS will talk to the TNC. Does
>anyone have any suggestions to get APRS to recognize COM2 using IRQ 5?
>
>73 Paul
>KR4YL

Paul the best thing you can do is leave the COM2 at its normal IRQ of 3 and change the IRQ of the Modem to IRQ 5 if you wish. This will also remove the conflict the modem will have with the mouse. Every thing should be OK with these settings.

Good Luck
73 Don
---==< Don KD4KSV >===---

478. Re: APRS & Skywarn

From: gbpool@redshift.com (Greg Pool)
Date: Mon, 28 Aug 1995 08:56:25 -0700
To: aprssig@tapr.org
Message-ID: <199508281556.IAA00178@axel.redshift.com>
Rendered body type: text/plain

FROM: gwyn@paccomm.com (Gwyn Reedy, W1BEL)

>If I understand your posting correctly, you are using a computer running
>APRS, weather observation equipment, and a packet modem at each reporting
>site.
>
>If you don't have a need to view/operate APRS at some sites, then the
>computer and APRS are not necessary. PacComm TNCs (I can't speak for
>other brands) will accept the weather data directly from the observation
>equipment and broadcast it periodically or when queried. No need for
>the data to go into APRS and back into the TNC...

Excellent! Yes, this is exactly what I would like to do - just run APRS at NWS and have automatic stations set up at other EOCs to beacon ground truth. It would be a hard sell to have someone construct the entire system, but with our non-profit group here in Monterey County, supporting emergency communications, we may be able to afford the cost of just the simple system you describe. Many thanks, Gwyn.

Greg WH6DT

Greg Pool, Monterey, California USA
Email: gbpool@redshift.com
Web site: <http://205.155.54.2/greg/greg.html>

479. Re: [APRSSIG:2924] Test

From: "Daniel Feedback <KJ5MX>" <feedback@phoenix.phoenix.net>
Date: Mon, 21 Aug 1995 15:15:47 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950821151258.8725B@phoenix.phoenix.net>
Rendered body type: text/plain

Bill,

Just a thought about your KPC-3/Magellan hookup. Try setting a parameter in the KPC-3 called PID. If it is ON then set it to OFF and try it. If it is already off then I guess this won't matter.

I had a similar problem with the KPC-3 (and the Kantronics 9612) that drove me crazy for a while as it would not recognize GPS NMEA sentences correctly with PID ON. Don't know if this will make a difference but its easy to try.

Good luck,

Dan

On Mon, 21 Aug 1995, William Nolle wrote:

> This is a test message, i keep getting errors in my sig mail and also an
> address in the header like follows.
>
> postmaster@redriver.ksc.nasa.gov
>
> Anyone have any ideas on this address...
>
>
>

480. APRS RAIN & Skywarn

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 28 Aug 1995 12:36:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950828122916.28120A-100000@greatlakes>
Rendered body type: text/plain

A note about the automatic remote WX sensors. I believe that many stations in Indiana are using APRS for remote WX sensing... One caution about the stand -alone U-II and TNC/RADIO combo:

Since the U-II transmits a raw RAIN count, the count is meaningless unless the receiving station knows what the previous value was or when each of the two rain counters was reset. So, for remote WX sensors, APRS just displays the raw count /rNNNN. To use these in a skywarn system someone has to keep track of the raw data to see the amount of rain as each counter counts up.

When APRS is hooked up to the U-II, it ONLY KEEPS TRACK OF THE DIFFERENCE in the rain count from the time APRS was started. Therefore no matter what the rain count was when you started APRS, if you get .3 inches of rain, then APRS will transmit /R030. But since APRS also defines this rain field to be PER HOUR, this number will revert back to 0 after an hour. The PRECIP field /P030 will also show the .3 inches of rain, indicating that much rain in the last 24 hours, but it too will decay to 0 after 24 hours.

Obviously you will not be placing un-attended PC's just running APRS at your remote sites, but the simple TNC/U-II/RADIO makes a nice package. Just remember to consider how you are going to handle the rain accounting...

481. Re: [APRSSIG:3047] RMC & Filter Callsign

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 28 Aug 1995 12:40:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950828123751.28120B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 28 Aug 1995, Ronald Kramer wrote:

> Question for APR, Bob can u tell me how to turn off the the circle with the
> line with the vehicle on the end on those stations sending RMC.
> It shure clutter's up the screen fast, on a 4mi range with 5 second beacons

APR REPLY: Rather than turning off the feature, fix the problem instead. The problem is that your PC is not synchronized to real time.

Use the alt-S-GPS-TIMESYNC command. If you insist, then use the
CONTROLS-DR command to toggle of DRing.

> Second question, I thought I saw it somewhere but can not find it now
> how do you turn the C filter on without going to replay and C to remove
> callsigns from tracks?

ANSWER: MAPS-FEATURES-CALLS

482. Re: [APRSSIG:3042] Weird IRQ and APRS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 28 Aug 1995 12:21:38 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199508281721.MAA15418@solar.cs.tamu.edu>
Rendered body type: text/plain

Since Micro\$loth really doesn't recognize Com3 or Com4, make one of those use
the squirrly IRQ and make Com2 standard.

Windoze9x claims to appropriately recognize higher com ports. The "Final
Beta" of unknown buld date we have here isn't too graceful...

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

483. Re: [APRSSIG:2953] GPS Antenna

From: milway@tecnet1.jcte.jcs.mil
Date: Mon, 28 Aug 95 13:52:31 EDT
To: aprssig@tapr.org
Cc: milway@tecnet1.jcte.jcs.mil, wmlway@apg-9.APG.ARMY.MIL,
william_milway_at_ntsc@stricom.army.mil
Message-ID: <199508281820.NAA03394@sys1.tapr.org>
Rendered body type: text/plain

I've got a Garman 40. Would that antenna work? You mention a BNC connector,
how do you convert from the BNC to the tiny connector on the back of the unit?

>The following is the message that was responded to.

>

>To: milway

>From: aprssig@tapr.org

>Posted: Tue, 22 Aug 1995 09:07:55 -0500

>Cc:

>Subject: [APRSSIG:2953] GPS Antenna

>From aprssig@tapr.org Tue Aug 22 10:30:01 1995

>Return-Path: <aprssig@tapr.org>

>Received: from sys1.tapr.org by tecnet1.jcte.jcs.mil (5.0/SMI-SVR4)

> id AA06930; Tue, 22 Aug 1995 10:30:01 -0400

>Received: from sys1.tapr.org (localhost [127.0.0.1]) by sys1.tapr.org (8.6.12/8.6.9) with SMTP id
JAA20751; Tue, 22 Aug 1995 09:07:55 -0500

>Date: Tue, 22 Aug 1995 09:07:55 -0500

>Message-Id: <199508221349.JAA12514@sasdns.sas.usace.army.mil>

>Reply-To: aprssig@tapr.org

>Originator: aprssig@tapr.org

>Sender: aprssig@tapr.org

>Precedence: bulk

>From: k6enghcs@sasdns.sas.usace.army.mil (Cardwell Smith)

>To: aprssig@tapr.org

>Subject: [APRSSIG:2953] GPS Antenna

>X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas

>X-Comment: Tucson Amateur Packet Radio APRS Special Interest Group

>X-Mailer: NCSA Mosaic/2.0.0 Final Beta (Windows x86)

>content-length: 881

>

>Hello All:

>

>Just a quick note on an antenna we've been using for a while now, which

>seems to do a good job with our Garmin 45s. Several of us in Savannah

>have ordered the model 90LL13800 form MicroPulse Inc. in Camarillo, CA

>(805-389-3446) and really like it. It is a small flat patch antenna

>which can be orederd with a magnetic or suction cup base with 10' of

>RG-316 cable with a BNC connector. It is an active antenna and seems to

>achieve lock faster and hold lock under trees etc. well. After using

>several other combinations of cables to remote the standard GPS 45
>antenea for vehicles and boats, we have found this antenna to be a great
>improvement in signal quality. The cost is around \$75.00 with shipping.
>The folks at MicroPulse seem to be pretty good folks to deal with, and
>we recieved them in about a week.
>
>Cardwell Smith - N4FOR - Savannah, GA

484. USGS

From: wnolle@ro.com (William Nolle)
Date: Mon, 28 Aug 1995 15:36:35
To: aprssig@tapr.org
Message-ID: <199508282042.PAA25116@sh1.ro.com>
Rendered body type: text/plain

Has anyone attempted to get some files from the USGS site. Have been attempting to connect to it with not much luck. Seems like we had that problem not to long ago, hope it's not just on my end. I think i have the address correct: edcftp.cr.usgs.gov

Bill KE4EER
wnolle@ro.com

485. Re: [APRSSIG:3053] Re: extra node alias

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 28 Aug 1995 17:07:16 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950828170425.4110A-100000@greatlakes>
Rendered body type: text/plain

On Mon, 28 Aug 1995, Ralph Fowler, N4NEQ wrote:
> I don't see any benefit in using TheNet or Net/Rom or any other node
> package for APRS.

APR REPLY: Agreed. But X1J node ROMS is an easy way to get the dual alias WIDE and RELAY with a TINY-2 or other TAPR CLONE TNC...

There shuld be a way to tell the NODE NOT to send out a node broadcast, and to not permit any users, hi hi.... But be sure to set DIGIPEAT ON...

486. Re: [APRSSIG:3062] Re: extra node alias

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Mon, 28 Aug 95 17:23:22 UTC
To: aprssig@tapr.org
Message-ID: <4570@paccomm.com>
Rendered body type: text/plain

The PicoPacket will have the provision for 4 aliases. (Thought we'd get one ahead of you, but I know it won't last).

There is less EPROM space in the TINY-2, but we can probably shoehorn most of those Alias callsigns in there too.

Less likely on the HandiPacket. It is even fuller than the TINY.

When? Within the next few weeks. We're trying to get all the new GPS bells and whistles in by the time we begin shipping the 2nd serial port model in quantity.

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org

+ (813) 874-2980 Fax: + (813) 872-8696 BBS: + (813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

487. Re: [APRSSIG:3061] USGS

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Mon, 28 Aug 1995 19:10:58 -0400
To: aprssig@tapr.org
Message-ID: <199508282310.TAA08154@dylan.mindspring.com>
Rendered body type: text/plain

At 03:53 PM 8/28/95 -0500, Verner Von Braun :) wrote:
>Has anyone attempted to get some files from the USGS site. Have been
>attempting to connect to it with not much luck. Seems like we had that
>problem not to long ago, hope it's not just on my end. I think i have the
>address correct: edcftp.cr.usgs.gov

>
>Bill KE4EER
>wnolle@ro.com
>
>

I asked that question of the USGS. Here is their response received today:

>
>=====Response=====

The server at "edcftp.cr.usgs.gov" had problems off-and-on most of last week and continues to be "down" today. Since you have accessed successfully in the past, it is likely that you were trying to access at the times when they were out of service. Please try again tomorrow, or later this week.

488. Re: [APRSSIG:3062] Re: extra node alias

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Mon, 28 Aug 1995 19:11:02 -0400
To: aprssig@tapr.org
Message-ID: <199508282311.TAA08170@dylan.mindspring.com>
Rendered body type: text/plain

At 04:17 PM 8/28/95 -0500, you wrote:
>On Mon, 28 Aug 1995, Ralph Fowler, N4NEQ wrote:
>> I don't see any benefit in using TheNet or Net/Rom or any other node
>> package for APRS.
>
>APR REPLY: Agreed. But X1J node ROMS is an easy way to get the dual
>alias WIDE and RELAY with a TINY-2 or other TAPR CLONE TNC...
>
>There shuld be a way to tell the NODE NOT to send out a node broadcast,
>and to not permit any users, hi hi.... But be sure to set DIGIPEAT ON...
>
>
>

Yep- Wayne enlightened me. I still think X1J is inefficient and s l o
w wwwwww, though

489. Re: [APRSSIG:3063] Re: extra node alias

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Mon, 28 Aug 1995 19:11:05 -0400
To: aprssig@tapr.org
Message-ID: <199508282311.TAA08193@dylan.mindspring.com>
Rendered body type: text/plain

At 04:40 PM 8/28/95 -0500, you wrote:
>The PicoPacket will have the provision for 4 aliases. (Thought we'd
>get one ahead of you, but I know it won't last).
>
>There is less EPROM space in the TINY-2, but we can probably shoehorn
>most of those Alias callsigns in there too.
>
>Less likely on the HandiPacket. It is even fuller than the TINY.
>
>When? Within the next few weeks. We're trying to get all the new GPS
>bells and whistles in by the time we begin shipping the 2nd serial
>port model in quantity.
>
>

>_ _ _ _ _ Reedy, W1BEL _ _ _ _ _ gwyn@paccomm.com _ _ _ _ _ W1BEL@amsat.org _ _ _ _ _
>
>+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)
>
>PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618
>
>

Bravo Bravo Bravo

490. Re: [APRSSIG:3038] extra node alias

From: BenW55R@aol.com
Date: Mon, 28 Aug 1995 19:17:00 -0400
To: aprssig@tapr.org
Message-ID: <950828191659_65581793@mail04.mail.aol.com>
Rendered body type: text/plain

AS to placing the WIDE alias in the DXC, BBS or HOST alias position on X-1j, we did that abt 3 weekss ago. We placed it in the HOST alias position and have not seen it transmitted with the node list nor any other problems. The only major problem is the fact it is on 145.01, need to get our own network up on 79 soon, but no \$\$\$\$. Hope it helped someone. 73 Ben W55R
3514.12N/10149.54W&

491. Re: [APRSSIG:3046] Re: APRS & Skywarn

From: BenW55R@aol.com
Date: Mon, 28 Aug 1995 19:23:16 -0400
To: aprssig@tapr.org
Message-ID: <950828192315_65587239@mail04.mail.aol.com>
Rendered body type: text/plain

AS to the interface from NWS info to APRS any info you find that is sent my way would be appreciated.

492. Re: [APRSSIG:3064] Re: USGS

From: N9VJQ@aol.com
Date: Mon, 28 Aug 1995 21:46:32 -0400
To: aprssig@tapr.org
Message-ID: <950828214631_85731577@mail04.mail.aol.com>
Rendered body type: text/plain

I was able to access that site last week, but it did have problems.
73 Barry
N9VJQ

493. Re: [APRSSIG:3062] Re: extra node alias

From: moyers@ibm.net
Date: Mon, 28 Aug 95 20:05:43
To: aprssig@tapr.org
Message-ID: <9508290316.AA0054@localhost>
Rendered body type: text/plain

> On Mon, 28 Aug 1995, Ralph Fowler, N4NEQ wrote:
> > I don't see any benefit in using TheNet or Net/Rom or any other node
> > package for APRS.
>
> APR REPLY: Agreed. But X1J node ROMS is an easy way to get the dual
> alias WIDE and RELAY with a TINY-2 or other TAPR CLONE TNC...
>
> There should be a way to tell the NODE NOT to send out a node broadcast,
> and to not permit any users, hi hi.... But be sure to set DIGIPEAT ON...

For the most part I agree with Ralph on this. But with some creative programming you can get 3 alias' from the X1J nodes, and turning node broadcasts off is easy with adjustment of the node parms. If you want more particulars let me know and I will look the parms up for the enitre setup. However, I do like Gwynn's comment about 4 alias' in the tiny two. Now if these Eproms will work in MFJ1274b tnc's I am sold. (Sorry Gwynn I already have several of these in use as nodes, will eventually replace them with paccom tiny 2's at the node sites.)

Gwynn, considering that most of the tiny 2's are now using the 27c512 eproms, how about an APRS specific chip that uses the bank switching of the X1J. That should give enough room for several aprs specific functions.

73
John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

494. Re: [APRSSIG:3061] USGS

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 28 Aug 1995 23:40:00 -0500
To: aprssig@tapr.org
Cc: wnoille@ro.com
Message-ID: <v02130500ac684a4dd7c6@[199.1.11.114]>
Rendered body type: text/plain

>Has anyone attempted to get some files from the USGS site.

Try this:
http://edcwww.cr.usgs.gov/glis/hyper/guide/1_dgr_demfig/index1m.html

The site seems to be up fine today.

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

495. Re: [APRSSIG:3058] Re: RMC & Filter Callsign

From: rkramer@vaxxine.com (Ronald Kramer)
Date: Tue, 29 Aug 1995 01:13:20 -0400
To: aprssig@tapr.org
Message-ID: <9508290513.AA00530@alpha.vaxxine.com>
Rendered body type: text/plain

>APR REPLY: Rather than turning off the feature, fix the problem
>instead. The problem is that your PC is not synchronized to real time.
>Use the alt-S-GPS-TIMESYNC command. If you insist, then use the
>CONTROLS-DR command to toggle of DRing.

Thanks Bob that did the trick, I guess I should re.re.re-read the doc's
also found I was using -5 instead of -4 on time conversion.

>> how do you turn the C filter on without going to replay and C to remove
>> callsigns from tracks?
>
>ANSWER: MAPS-FEATURES-CALLS

Again thanks I knew it was there somewhere else besides the replay but
could not find it in help menu or remember where I saw it before.
Regards, Ron ... 73 de Ron
Internet: rkramer@vaxxine.com (Ron Kramer)
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

496. Re: [APRSSIG:3039] WX mods in work

From: "Jim Lynch" <k4gvo@america.net>
Date: Tue, 29 Aug 1995 05:03:59 +0000
To: Bob Bruninga <bruninga@nadn.navy.mil>, aprssig@tapr.org
Message-ID: <199508290918.JAA05759@america.net>
Rendered body type: text/plain

> Date: Sun, 27 Aug 1995 15:43:30 -0500
> Reply-to: aprssig@tapr.org
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:3039] WX mods in work

> Based on comments from Jeff Ward and KD4UYR, I am making several WX mods
> to my next version. There is the user option of a duplicate
> definition of most of the LETTERED circles to be additional WX
> symbols. Additionally, I fixed the hurrican symbol to CCW!

>
> I am also suggesting a Hurrican or storm comment format as
> follows. This permits me to plot the wind radius and also cuts
> down on the redundant bulletin lines that say the same thing...

>
> DDHHMM/LAT/LONG@CSE/SPD/HC/###^###mph/####/out##&###
>
> | | | | | *- - Radius of TS wnds
> | | | | | *- - - Radius of HC wnds
> | | | | | *- - - - Central Pressure
> | | | | | *- - - - - Gusts
> | | | | | *- - - - - Sustained winds
> | | | | | *- - - - - Storm Type TD,TS,HC
> | | | | | *- - - - - Colored BLU,YEL,RED

> All fields are fixed length. Note that I only permit
> a radius of 99 miles for HC force winds. Is that enough?
> The problem is that there are NOT any more characters avail.
> I want to leave the MPH in there and the "out". If 3 digits are
> required for HC force wind radius, then I suppose the word "out"
> could be replaced by "to". Both MPH and TO should be in Lower case to

> make them more visible. TS,TD, and HC should be in Upper case...
>
> Unless someone can convince me otherwise, this is what I want to do...
>
How difficult would it be to use that field to specify the distance
in units of 2 miles? Then you would be able to get up to 198 miles
distant. A field value of 23 would represent 46 miles. Not nice to
look at, but that isn't the objective, me thinks.

Jim.
Jim Lynch Fayetteville, GA K4GVO
'86 GL1200I k4gvo@america.net 44.36.34.20

497. Re: [APRSSIG:3030] Re: APRS Novell NET

From: "Thomas H. Busch" <TOMB@avoca.nwscs.sea06.navy.mil>
Date: Tue, 29 Aug 1995 08:53:15 EST
To: aprssig@tapr.org
Message-ID: <199508291404.JAA16254@sys1.tapr.org>
Rendered body type: text/plain

How about a way to interface to a BBS you are already connected to?

I'm thinking specifically of the conference bridge I access over K9IU
at Indiana University. It is like IRC, and there are discussion groups.
One of them could be APRS, where position reports are exchanged.

Tom WB8WOR

Tom Busch

Electronics Engineer
Crane Division, Naval Surface Warfare Center

Tel (812) 854-6490
FAX (812) 854-1332
E-Mail tomb@avoca.nwscs.sea06.navy.mil

498. U-II/APRS

From: N9VJQ@aol.com
Date: Tue, 29 Aug 1995 10:17:26 -0400
To: aprssig@tapr.org
Message-ID: <950829101725_86083858@emout04.mail.aol.com>
Rendered body type: text/plain

Lessons learned from my APRS/U-II hook up:

1. Get an APRS/WX authorization #
2. Use the 5 K resistor hook-up between pins 2&3 of the Com port you're using.
3. Follow the startup prompts for second comm port, specifying WX use.
4. Insert your position as a WX reporting station
5. Plug it in and be amazed how well it works on the bench
6. Install the U-II on your roof
7. Try to make the U-II reach to your computer after mounting on the roof
8. Cross-connect, short, open, and generally foul up all the connections that seemed to work so well on the bench.
9. When everything seems to be hooked up right, disconnect the p/s and the battery from the U-II, WAIT 5 minutes (mine had the ability to "remember" the settings after I pulled the power), and re-calibrate. I must have had all the connections and APRS conditions set correctly, because after I powered down for a few minutes, everything worked great when I powered up. The "Getting WX station data" prompt must mean that the APRS program sees the info the U-II is putting out and likes it.
10. Wonder why GATED keyboard conversations about camping from GA are colliding with WX packets in IL, when all you can think about is 5 yrs ago this week the Plainfield tornado killed lots of people and caused Millions of \$ in damage, and this is why we got into APRS to start with. Oh, well, I guess that's diversity!

PS: Read \README\WX.TXT many times, especially if you're dense like me!

73s all
N9VJQ Barry

499. Re: [APRSSIG:3054] Re: Weird IRQ and APRS

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 29 Aug 1995 11:17:51 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9508291140.A23570-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I haven't seen this suggested so for your interest I reserve COM1 for the TNC, run my bus mouse with IRQ 5, and have my internal modem on COM 3. All seems to work well.

William Manley KB4XE
z002594b@bcfreenet.seflin.lib.fl.us

> >Recently we made a change to the machine I run APRS on. We have three
> >serial devices. COM1 is the mouse, COM2 is TNC and COM3 is internal modem.
> >
> >I have set com 2 to use a weird IRQ. I can get Telix to talk to the TNC
> >but one of my packet programs including APRS will talk to the TNC. Does
> >anyone have any suggestions to get APRS to recognize COM2 using IRQ 5?
> >
> >73 Paul

500. Re: [APRSSIG:3062] Re: extra node alias

From: lbutler@awod.com (Larry Butler)
Date: Tue, 29 Aug 1995 13:19:52 -0400
To: aprssig@tapr.org
Message-ID: <199508291719.NAA09592@sumter.awod.com>
Rendered body type: text/plain

>On Mon, 28 Aug 1995, Ralph Fowler, N4NEQ wrote:
>> I don't see any benefit in using TheNet or Net/Rom or any other node
>> package for APRS.
>
>APR REPLY: Agreed. But X1J node ROMS is an easy way to get the dual
>alias WIDE and RELAY with a TINY-2 or other TAPR CLONE TNC...
>
>There shuld be a way to tell the NODE NOT to send out a node broadcast,
>and to not permit any users, hi hi.... But be sure to set DIGIPEAT ON...

Why so vicious? We still use my WIDE for local chatnet with no problems with APRS stations. Just turn the junk filter on and it works. larry KN4IM

COME SEE POWWOW! <http://www.tribal.com> download POWWOW 1.6 beta 2 and join the fun. Leave your name/data in the PowWow White Pages before you dump the URL. When you Logon, your data goes into the "Last 10/25/50 list"...it's better'n calling CQ with 10KW on 20 meters! Powwow can keyboard, talk voice like 2mFM, swap binary files in background while typing or talking, AND UP TO 7 FOLKS CAN CRUISE THE WEB WITH NETSCAPE TOGETHER...ANYWHERE! Amazing software, very professionally done. Whenever you logon to inet, boot PowWow FIRST THING. It's like turning on your cellular phone so folks can call....

Give us a PowWow call, we'll talk...Then we can find out how APRSers actually sound! Call me lbutler@awod.com (PowWow uses your email address and that keeps the criminals off it!)...73, Larry KN4IM

501. Re: [APRSSIG:3055] Re: APRS & Skywarn

From: "Samuel T. Nabkey" <wj8t@w8dc.ampr.org>
Date: Thu, 31 Aug 95 01:57:51 UTC
To: aprssig@tapr.org
Message-ID: <43345@w8dc.ampr.org>
Rendered body type: text/plain

Greg,
KPC-3's will do it too! Just change the GPSHEAD command to look for the * or # Strings from the U-II.

502. Is "raw, trace-type" data logged in APRS?

From: Zonker@eworld.com
Date: Tue, 29 Aug 1995 15:14:25 -0700
To: aprssig@tapr.org
Message-ID: <950829151419_14103380@eWorld.com>
Rendered body type: text/plain

Disclaimer: I'm a registered, and happy, MacAPRS user.

With that said, I've got a technical question. (Hopefully, it's a simple "new user"-type question, and I can get a quick answer without taking too many lumps. ;-)

Is there any trace-type data logged when you are keeping a log file in the PC APRS program? I have some files here from the Baker to Vegas challenge cup, but they appear to have been 'sanitized'. That is, there is only location information, presumably ideal for replay-mode.

My problem is this; I want to identify what parts of the course were *directly* visible to each of the digipeater locations. That is, which parts were in good simplex range for the 25-watt mobiles we used.

The MacAPRS logs are pretty flexible, allowing us to check what types of data will be logged. So, we see all kinds of things from the MacAPRS site we had. We even see the keyboard-to-keyboard, and PBBS streams that were heard.

But, best of all, we see the via path, with the embedded asterisk, showing which device was actually heard. This has allowed us to strip these logs (manually), so we now have a log of what GPS coordinates were directly visible to that digipeater location.

Now, I need to try to derive that information for the other three locations. Is there a way? (If there are alternate files, other than the HST files, we may be in trouble, as those may not exist anymore. Still, the answer could prove to be useful for others, so they can capture that data for study.

regards,

David K. Z. Harris B-2-V 1996 Technical Committee Lead

503. (no subject)

From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>
Date: Tue, 29 Aug 1995 16:25:23 MST-0700
To: aprssig@tapr.org
Message-ID: <4DE3B421B7@ceis.uhcolorado.edu>
Rendered body type: text/plain
enumerate aprssig

504. APRS/WIN 95

From: "Warren E. Boudrie" <web@vectorbd.vivanet.com>
Date: Tue, 29 Aug 1995 22:52:23 +000 (UTC)
To: APRS <aprssig@tapr.org>
Message-ID: <Pine.3.87.9508292223.A27028-0100000@vectorbd.vivanet.com>
Rendered body type: text/plain

Has anyone used the APRS program with the new Windows 95 operating system? Any problems or items to be concerned about?

Warren in Pittsford,NY

505. Re: [APRSSIG:3081] APRS/WIN 95

From: KSwaggart@aol.com
Date: Tue, 29 Aug 1995 21:13:56 -0400
To: aprssig@tapr.org
Message-ID: <950829211353_66588538@mail02.mail.aol.com>
Rendered body type: text/plain

I was able to use APRS in WIN95 in foreground, but not background. I tried both 16 color and 64 color VGA.

Before, with Windows for Workgroups, I could run it fine in the background if I used 16 color mode (display setup), but only full screen with 256 colors.

Good luck!

73, Ken, W7KKE

506. (no subject)

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Tue, 29 Aug 1995 23:37:06 -0400
To: aprssig@tapr.org
Message-ID: <199508300337.XAA06925@dylan.mindspring.com>
Rendered body type: text/plain

I thought some of you might like to see what the APRS screen looked like in other areas, so I uploaded tonight's screen from Atlanta to the TAPR archive. I placed it in a subdirectory called "backups" and named the file atlanta.bk (how original)

If you like this, put one up of your own area. I'd like to see yours too.

You can even see KE4EER over in Alabama! Some of you may see yourselves coming in from our gate, and it even looks like a friendly airplane is passing by (thanks, Bill)

73
Ralph
N4NEQ

If you can't FTP, let me know and I will send it to you as an Email attached file.

Don't forget the ATV/HAM/APRS/Balloon Web Site at:

<http://www.mindspring.com/~rwf>

507. Re: [APRSSIG:3079] Is "raw, trace-type" data logged in APRS?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 29 Aug 1995 23:56:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950829235450.20143F-100000@greatlakes>
Rendered body type: text/plain

On Tue, 29 Aug 1995 Zonker@eworld.com wrote:

>
> Is there any trace-type data logged when you are keeping
> a log file in the PC APRS program? I have some files here
> from the Baker to Vegas challenge cup, but they appear
> to have been 'sanitized'. That is, there is only location
> information, presumably ideal for replay-mode.
>

Sorry, APRS only saves the sanitized POSITS and separately the BEACONS and MESSAGES, but no logs of digipaths. Sorry.

508. USGS download problems

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Wed, 30 Aug 1995 07:23:29 -0400
To: aprssig@tapr.org
Message-ID: <199508301123.HAA25262@dylan.mindspring.com>
Rendered body type: text/plain

I tried to download 1,000,000:1 DLG map files from the USGS a couple of days ago. Several persons had told me they have been successful at this. I have no problem with the 2,000,000:1 files.

The way the files are currently named makes them impossible to download to a DOS machine, as I see it.

For instance: Cartersville, GA boundaries, optional format, is about 6 files or so. Every one of the filenames starts with somethins like (and I am typing data off the top of my head here- but the pattern is right):

fo8.gdk.hjhdjh.jskjffj.jdkjfdkj.1 and on up for 6 files or so.

As you can see, a DOS machine will translate all of them to the same name: fo8.gdk
When done, you will have only ONE file, they all overwrite each other.

William Nolle says he thinks the name formats have been changed.
Anybody have any clues how to FTP these "dotty" named files to a DOS machine?

Ralph

509. Weather variables comments

From: RonN9QGS@aol.com
Date: Wed, 30 Aug 1995 07:35:55 -0400
To: APRSSIG@tapr.org
Message-ID: <950830073554_66906639@mail04.mail.aol.com>
Rendered body type: text/plain

Hi,
With the use of Heath weather computers coming along and the ability to have many of the weather parameters, it brought up a question to me, a friend in the local area is using /G000 and /H00 for gust wind and humidity, is APRS gonna support this for display? And when people put pressure in, what is recommended? In. or Mb.? I am under the impression Mb. (from the DOS version, but most pressure producing stations, show it in Inches, is there a way to specify which your using so the other user can tell? Im just curious cause these are questions that I have been wondering about.

510. Re: [APRSSIG:3086] Weather variables comments

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 30 Aug 95 8:11:20 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.809784680.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The /G000 and /H000 are quite new, and although Bob has agreed to them, They are not implemented in his code yet. (Probably soon, but don't bug him about it..)

So far, Bob has NOT talked about supporting the Heathkit unit, but I have done this on the Macintosh.. Lets see how it works for the Mac, then I can give him the info I have gathered to make his life easier...

As far as the Pressure, we need something that fits into a 3-digit number.. i.e. /B000. One suggestion was that 30.0 inches would be /B300, but that gives us a range from about /B290 to /B320 or what-ever, so I think there are better ways to do this.. Suggestions?

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www.ns.rutgers.edu/~ksproul/	908 821-4828 Home

511. Re: [APRSSIG:3087] Re: Weather variables comments

From: Jack Swift <jswift@mail.msen.com>
Date: Wed, 30 Aug 1995 08:44:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.91.950830084034.9235B-100000@garnet.msen.com>
Rendered body type: text/plain

On Wed, 30 Aug 1995, Keith Sproul wrote:

<<snip>>

```
> As far as the Pressure, we need something that fits into a 3-digit number..
> i.e. /B000. One suggestion was that 30.0 inches would be /B300, but that
> gives us a range from about /B290 to /B320 or what-ever, so I think there are
> better ways to do this.. Suggestions?
```

Since the pressure range would be 25.99 to 34.99 (maybe?) then you could drop the leading digit and have 600 be equivalent to 26.00 and 400 be equivalent to 34.00 -- the software would *know* which leading digit to include.

my penny's worth

Jack Swift jswift@msen.com N8WAV@W8YY.#UPMI.MI.USA.NOAM
Swift True Value Hardware 402 Sheldon Ave. Houghton, MI 49931
Houghton County Amateur Radio Emergency Service APO Epsilon Lambda Advisor
906-482-0530, 0531, 7766 Dereliction IS! Having fun is Hamming it up!
Marriage is an Institution - Only a Psychologist should be able to commit you.
~~~~~

## 512. Re: [APRSSIG:3087] Re: Weather variables comments

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>  
Date: Wed, 30 Aug 1995 08:56:19 -0400

To: aprssig@tapr.org  
Cc: ksproul@hardees.Rutgers.EDU  
Message-ID: <199508301300.JAA13023@neptune.gsfc.nasa.gov>  
Rendered body type: text/plain

At 07:31 8/30/95 -0500, you wrote:

>[...]

>As far as the Pressure, we need something that fits into a 3-digit number..  
>i.e. /B000. One suggestion was that 30.0 inches would be /B300, but that  
>gives us a range from about /B290 to /B320 or what-ever, so I think there are  
>better ways to do this.. Suggestions?

>

>Keith

>

|                                        |                         |
|----------------------------------------|-------------------------|
| >Keith Sproul                          | Ham Radio: WU2Z         |
| >Student Housing Network Coordinator   | ksproul@noc.rutgers.edu |
| >Rutgers University Computing Services | 908 445-3695 Work       |
| >http://www-ns.rutgers.edu/~ksproul/   | 908 821-4828 Home       |

Keith

Try doing it the way the manual weather report encoding does it: use the last three digits, including the single point decimal, in millibars. Thus,

852 = 985.2 millibars (stormy)  
285 =1028.5 millibars (fair)

There should not be any ambiguities; the lowest a barometer gets is around 960, and the highest is around 1040. And a tenth of a millibar precision is plenty good for resolution. Isobars are always plotted in millibars nowadays (usually at 4mb contour intervals) instead of inches, even when temperatures are plotted in fahrenheit.

Bob kirk  
N30ZB

---

### 513. Re: [APRSSIG:3087] Re: Weather variables comments

From: sdimse@umed.med.miami.edu (Steven S. Dimse)  
Date: Wed, 30 Aug 95 9:00:05 EDT  
To: aprssig@tapr.org  
Message-ID: <9508301300.AA02058@umed.med.miami.edu>  
Rendered body type: text/plain

>

>

> The /G000 and /H000 are quite new, and although Bob has agreed to them,  
> They are not implemented in his code yet. (Probably soon, but don't bug him  
> about it..)

Just go out an buy a Mac, HI!

>

> As far as the Pressure, we need something that fits into a 3-digit number..  
> i.e. /B000. One suggestion was that 30.0 inches would be /B300, but that  
> gives us a range from about /B290 to /B320 or what-ever, so I think there are  
> better ways to do this.. Suggestions?

How about using millibars, if greater than 1000 subtract 1000. This would give greater resolution, and should be little chance for overlap unless reporting pressures from high altitude balloons... say 500 to 999 is direct, 000 to 499 is minus 1000.

Steve K04HD

---

### 514. Re: [APRSSIG:3085] USGS download problems

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 30 Aug 1995 09:04:14 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199508301404.JAA14001@solar.cs.tamu.edu>  
Rendered body type: text/plain

There are several "gotchas" associated with the 1:100k DLGs. the absolute best way is to get them via the CD ROM route, if you've got a technical or university library readily available.

The files are out there in unix compressed format, as well as being offered in two file formats: STANDARD and OPTIONAL. The only one you want to grab is the OPTIONAL. Adding insult to injury, the files are not CR/LF delimited so you will either have to have acces to a unix box, or do some low magic on the PC to reblock the files. There is a shell script for the unix-inclined that's in



It would seem practical to try to determine the coverage holes for a number of sites. (This helps you determine if you should use the site the next time, or pick another site.) I guess the only good way to do this now (in APRS) is to save a bunch of screen shots. But in a networks (using any relay or wide stations), the picture is only of that network, and not practical for determining individual coverage. Maybe I'm missing something here...any other ideas?

I suppose we just set up a second TNC and computer, to run TRACE to capture logs.

Perhaps we try to borrow a bunch of Macs? :-)

Would there be good reasons \*not\* to request that this be a future enhancement to APRS? (Or should it maybe be an option you can choose to turn on or off?)

Just some whimsey, as I ponder moving and adding a few digipeaters along a 120-mile desert-and-mountains race course.

regards,

N6UOW David K. Z. Harris

---

## 517. Re: [APRSSIG:3086] Weather variables comments

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Wed, 30 Aug 1995 12:47:02 +0100 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950830124256.18661A-100000@pinegov>  
Rendered body type: text/plain

On Wed, 30 Aug 1995 RonN9QGS@aol.com wrote:

> Hi,  
> With the use of Heath weather computers coming along and the ability to have  
> many of the weather parameters, it brought up a question to me, a friend in  
> the local area is using /G000 and /H00 for gust wind and humidity, is APRS  
> gonna support this for display? And when people put pressure in, what is  
> recommended? In. or Mb.? I am under the impression Mb. (from the DOS  
> version, but most pressure producing stations, show it in Inches, is there a  
> way to specify which your using so the other user can tell? Im just curious  
> cause these are questions that I have been wondering about.  
>  
>

Ron, I cannot speak for other weather stations, but the manual entry form for weather requests pressure in tenths of millibars, ie: 08.8 is 1008.8 millibars...anything over 50 is in the 900's...ie 55.2 is 955.2 mbs, and hopefully, you have the windows shuttered...hi hi.

I almost always append the free text of the beacon with the barometric reading in inches for those less scientific minded persons...ie...  
Baro 29.92 R, 29.93 RR, 30.02 S....using the standard meteorological codes of FR Falling Rapidly, F Falling, S Steady, R Rising, RR, Rising rapidly.

The same can be done with winds....ie 250@03G12....

73

de KD4UYR  
Seminole, Florida

---

## 518. Re: [APRSSIG:3088] Re: Weather variables comments

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Wed, 30 Aug 1995 12:56:06 +0100 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950830125425.18661C-100000@pinegov>  
Rendered body type: text/plain

On Wed, 30 Aug 1995, Jack Swift wrote:

> On Wed, 30 Aug 1995, Keith Sproul wrote:  
>  
> <<snip>>  
> > As far as the Pressure, we need something that fits into a 3-digit number..  
> > i.e. /B000. One suggestion was that 30.0 inches would be /B300, but that  
> > gives us a range from about /B290 to /B320 or what-ever, so I think there are  
> > better ways to do this.. Suggestions?

>  
> Since the pressure range would be 25.99 to 34.99 (maybe?) then you could  
> drop the leading digit and have 600 be equivalent to 26.00 and 400 be  
> equivalent to 34.00 -- the software would \*know\* which leading digit to  
> include.  
>  
> my penny's worth  
>  
>  
>  
Jack, if your barometer ever gets down to 25 inches, I hope you have a  
spacesuit...the lowest barometric reading ever recorded at sea level was  
26.97 inches of mercury in the center of Hurricane Gilbert.  
  
BTW...lets not forget the plan for National Hurricane Center to use  
readings from APRS....they must have the readings in millibars.

73 de Kevin KD4UYR

---

## 519. Re: [APRSSIG:3085] USGS download problems

From: Dick Mead <mead@skat.usc.edu>  
Date: Wed, 30 Aug 95 10:45:33 PDT  
To: aprssig@tapr.org  
Message-ID: <CMM.0.90.2.809804733.mead@hamal.usc.edu>  
Rendered body type: text/plain  
  
> Anybody have any clues how to FTP these "dotty" named files to a DOS machine?  
>  
>  
> Ralph  
>  
>  
  
You'll probably get multiple answers. Most ftp clients I have seen will  
allow you to rename the file you download, i.e...  
  
ftp>get file\_with\_a\_non\_dos.name file1.dos  
  
try that...it makes getting more than a few files a chore, but a least  
you get them.  
  
Dick WB6NGC

---

## 520. Re: [APRSSIG:3095] Re: Weather variables comments

From: Jeff Ward <jward@marlin.gulf.net>  
Date: Wed, 30 Aug 1995 13:24:56 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSI.3.90.950830131950.18796D-100000@marlin.gulf.net>  
Rendered body type: text/plain  
  
On Wed, 30 Aug 1995, Kevin Heyboer wrote:  
  
> Jack, if your barometer ever gets down to 25 inches, I hope you have a  
> spacesuit...the lowest barometric reading ever recorded at sea level was  
> 26.97 inches of mercury in the center of Hurricane Gilbert.  
>  
>  
  
Actually, Hurricane Gilbert had the lowest pressure ever recorded in the  
Atlantic Basin. The lowest sea-level pressure EVER recorded was in  
Typhoon Tip (October, 1970) at 870 mb (25.70 in). I agree with Kevin,  
though...pressures that low are extremely rare. It's important to note  
that some of the extreme arctic cold air masses commonly have pressures as  
high as 1045 or 1050 mb, and the highest ever recorded at sea-level was  
1084 mb (32.01 in) in Siberia...again extrememly rare conditions.  
  
73  
Jeff Ward, N4TRY  
FSU Meteorology Dept.

---

## 521. Re: [APRSSIG:3087] Re: Weather variables comments

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 30 Aug 1995 15:28:39 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950830152629.10490C-100000@greatlakes>  
Rendered body type: text/plain

On Wed, 30 Aug 1995, Keith Sproul wrote:

>

> As far as the Pressure, we need something that fits into a 3-digit number..  
> i.e. /B000. One suggestion was that 30.0 inches would be /B300, but that  
> gives us a range from about /B290 to /B320 or what-ever, so I think there are  
> better ways to do this.. Suggestions?

APRS already extracts data from NWS hourly summaries and uses their convention for barometric pressure, which is to take the last 3 digits in millibars. for example 998 is 998 millibars. 033 is 1033 mb. There can never be a 1998 or we are in deep trouble...

---

## 522. Re: [APRSSIG:3098] Re: Weather variables comments

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Wed, 30 Aug 95 15:43:27 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.809811807.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

>APRS already extracts data from NWS hourly summaries and uses their  
>convention for barometric pressure, which is to take the last 3 digits in  
>millibars. for example 998 is 998 millibars. 033 is 1033 mb. There can  
>never be a 1998 or we are in deep trouble...

Thanks Bob..

I guess I should have been able to figure that out, but was not sure on the details.. I will use the /Bxxx where xxx = millibars, /B998 or /B033

Keith

|                                       |                         |
|---------------------------------------|-------------------------|
| Keith Sproul                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work       |
| http://www-ns.rutgers.edu/~ksproul/   | 908 821-4828 Home       |

---

## 523. Re: [APRSSIG:3089] Re: Weather variables comments

From: daveh@moose.erie.net (David G. Henderson)  
Date: Wed, 30 Aug 1995 15:49:21 -0300  
To: aprssig@tapr.org  
Message-ID: <m0snt4L-000fyEC@moose.erie.net>  
Rendered body type: text/plain

Keith,

>last three digits, including the single point decimal, in millibars. Thus,  
>  
> 852 = 985.2 millibars (stormy)  
> 285 =1028.5 millibars (fair)

Heath Wx Computer does not measure/display millibars to the tenth precision--only integers.

73

\*\*\*\*\*  
\* David G. Henderson daveh@moose.erie.net \*  
\* Amateur Radio: N3EOY n3eoy@wa3zca.#nwpa.pa.usa.noam \*  
\* Emergency Coordinator, Erie County PA SKYWARN \*  
\* Township Supervisor, Franklin Township, Erie Co., PA \*  
\* Work Phone: 814-734-3521 (7 am-3 pm); Fax: same, voice first \*  
\* Home Phone: 814-734-4623; Fax: same, voice first \*  
\* Digital Pager: 814-452-9263 \*

---

## 524. Re: [APRSSIG:3091] Re: USGS download problems

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Wed, 30 Aug 1995 15:55:25 -0500  
To: aprssig@tapr.org  
Message-ID: <9508302055.AA18601@omnifest.uwm.edu>  
Rendered body type: text/plain

What a FANTASTIC offer. You are NEAT!

CUL & 73 de Dave

=====

|                                                                   |                                                  |                                     |
|-------------------------------------------------------------------|--------------------------------------------------|-------------------------------------|
| David W. Barrow III                                               | * Amateur Radio:N9UNR                            | * Internet:dbarrow@omnifest.uwm.edu |
| U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin | 53095-9603                                       |                                     |
| Ma Bell:(414) 375-2667                                            | * Amateur Packet:N9UNR@N9PBY. EN63BI.WI.USA.NOAM |                                     |



---

## 525. Re: [APRSSIG:3081] APRS/WIN 95

From: John Baum <jbaum@freenet.columbus.oh.us>  
Date: Wed, 30 Aug 1995 18:31:43 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: aprssig@tapr.org  
Message-ID: <Pine.3.07.9508301840.A1964-9100000@acme>  
Rendered body type: text/plain

On Tue, 29 Aug 1995, Warren E. Boudrie wrote:

> Has anyone used the APRS program with the new Windows 95  
> operating system? Any problems or items to be concerned  
> about?

Has anyone successfully used Windows 95 ?

The Ohio Mapmaker - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249  
"Will do maps for equipment"  
Cruise Missile Address: 39 56.35 N 082 58.89 W  
The 143th most knowledgeable person about A.P.R.S.

---

## 526. Aprs Numbers

From: kenwil@interlog.com (Ken Quibell)  
Date: Wed, 30 Aug 1995 06:59:12 -0400  
To: aprssig@tapr.org  
Message-ID: <199508302300.TAA05441@gold.interlog.com>  
Rendered body type: text/plain

Dear Bob Brininga/wb4 apr  
of 115 Oldfarm Cres.

I have been using your APRS and really enjoying it, and I  
think it is about time I register it, also I have one those GPS 45 Units.  
So I would like the number for that as well. My call is VE3 DKQ, and I  
will be running this as well mobile. I did pick up one of the Y-cables so  
that I can run it with my laptop in the car.

If there is a upgrades, or anything else from 6.6 or any other  
infomation, please let me know.

6975 Harris Rd.  
Mississauga On.,Canada  
LSN 4Z7  
(905)824-5939

-note- I will be sending you the  
money tonight via Snail-Mail.

-APRS Shareware REGISTRATION ..... \$24.00  
-GPS registration ..... \$9.00  
-Need 3.5 inch HD disk

If you could E-mail me or call me (voice) To get my numbers ASAP.

Thank you in advance  
Ken Quibell

---

## 527. Re: [APRSSIG:3097] Re: Weather variables comments

From: RonN9QGS@aol.com  
Date: Wed, 30 Aug 1995 19:23:26 -0400  
To: aprssig@tapr.org  
Cc: ksproul@hardees.Rutgers.EDU  
Message-ID: <950830192325\_67372965@mail04.mail.aol.com>  
Rendered body type: text/plain

My word on Barometric Pressure, should be since the Heath only reports to the  
nearest millibar, and that most NWS reports use the last 3 digits i.e  
(pressure currently at my place is: 29.93" or 1013 millibars) and should read  
/B013 so you have your range of /B950 to /B050 and you know when to add the  
trailing 1 if the number is between /B000 and uhm /B200 (to be on the  
safe-side) and what I think the weather display could look like from a Heath  
report i.e.: 200/011/T091/R000/P000/B013/G012/H69

-----  
Temperature 91 F  
Wind Data 11 MPH from SSW gusting to 12  
Barometer 1013 Mb  
Humidity 69 %

Hr. Rainfall    0.00" / 24 hr total:   0.00"

-----  
I am not really sure about the rainfall to display both, maybe use 2 lines, but the NWS data will show dew point, and I think if a station is pulled up showing dew point /D000 instead of humidity, substitute "Dew Point" for "Humidity" and not use the % sign. Maybe use a "F" instead?

I was thinking we could show a wind direction vs bearing? SSW means more to me than a 200, personal opinion, we could easily define

N        348-013  
NNE    013-31  
NE      031-058  
ENE     058-73  
E       073-102  
etc.... I would need the calculator to figure the exact figures...  
Anyone else have input?

---

## 528. SUX Map

From: DKAPLAN@netins.net (David Kaplan)  
Date: Wed, 30 Aug 1995 22:58:36 -0500  
To: aprssig@tapr.org  
Message-ID: <199508310359.WAA15782@sys1.tapr.org>  
Rendered body type: text/plain

Hi John, Did you ever get a chance to do a Sioux City Map? I've been offline for a while and thought I should check. Dave

---

## 529. USGS DOWNLOADS

From: jeff.brenton@espi.com  
Date: Wed, 30 Aug 95 21:23:58 -0500  
To: aprssig@tapr.org  
Message-ID: <9508302123.0U28W00@espi.com>  
Rendered body type: text/plain

Ralph Fowler asks how to download the dotty ftp file names to a DOS machine...

Not the worlds GREATEST solution, but, when I ftp through CompuServe (using WinCIM or OS2CIM), I'm prompted for the file name on my side. It's not as automatic as other solutions, but it works!

---

## 530. WEATHER VARIABLES

From: jeff.brenton@espi.com  
Date: Wed, 30 Aug 95 21:24:00 -0500  
To: aprssig@tapr.org  
Message-ID: <9508302124.0U2AB00@espi.com>  
Rendered body type: text/plain

Actually, do we NEED to have 3 digits for humidity? I haven't seen many places where humidity gets reported as "100%", even when the temp/dew point collide.

As for baro, use inches, drop the leading digit and the decimal point, and you have the standard aviation format - 000 = 30.00, 992 = 29.92, etc. This is what I gathered APRS is using anyway, from the documentation!

There is also an aviation standard for reports in milibars, which is to not use decimals, and only the last three digits. 985 = 985, 025 = 1025. In aviation reports, for stations that report both inches and millibars, the millibar report is one of the last things on the line.

Why play Microsoft and invent a new standard, when good, usable ones already exist? B-)

---

## 531. An APRS specific eprom for TNC's

From: moyers@ibm.net  
Date: Thu, 31 Aug 95 00:05:39  
To: aprssig@tapr.org  
Message-ID: <9508310718.AA0044@localhost>  
Rendered body type: text/plain

After reading resent posts about more alias's, beaconing periods, and weather data involving tnc's. How about  
lets start a wish list of APRS features for a APRS SPECIAL EPROM. For the most part the 256 eprom's used the  
most tnc's is getting full, and to get around this the author of the X1J series of node software started using  
27C512 eproms for his code. This helped alot by giving him much needed room to add more code by bank switching the Eprom, and is an easy mod on most TNC's (Paccomm tnc tiny2's have this mod already.)

That said, and after reading Bob's reminder about tnc/wx stations beacon raw weather data with rain given in  
a value for the last 24 hours got me thinking. If we could convince one of the tnc programmers to write a  
APRS tnc eprom to parse this data into per 1 hour increments instead of 24 hour increments. Shouldn't be to  
hard and makes more sense to do it at the tnc than it would be to have aprs attempt it from remote data.

Makes even more sense than having an operator watching every weather beacon durring a disaster logging the  
data down at every beacon just so we how much rain has fallen in the last hour.

ARE THERE ANY MORE SUGGESTIONS FOR THE WISH LIST?????

John Moyers \* ARS: N4QEA \* Internet: moyers@ibm.net  
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

---

### 532. Re: [APRSSIG:3102] Re: APRS/WIN 95

From: "Samuel T. Nabkey" <wj8t@w8dc.ampr.org>  
Date: Thu, 31 Aug 95 14:49:23 UTC  
To: aprssig@tapr.org  
Message-ID: <43535@w8dc.ampr.org>  
Rendered body type: text/plain

Just tried it out tonight.. APRS runs fine here with '95 so far. I will  
fill in more later. Anybody else running it?

```

#####
[]          Samuel T. Nabkey - WJ8T          []
[]          -----                          []
[]          wj8t@w8dc.ampr.org                []
[]          wj8t@hamgate44.gvsu.edu            []
#####
```

---

### 533. Re: [APRSSIG:3091] Re: USGS download problems

From: crpl.cedar-rapids.lib.ia.us (David Barrett)  
Date: Thu, 31 Aug 1995 07:40:19 -0500  
To: aprssig@tapr.org  
Message-ID: <199508311241.HAA21766@sys1.tapr.org>  
Rendered body type: text/plain

>There are several "gotchas" associated with the 1:100k DLGs. the absolute  
>  
>The files are out there in unix compressed format, as well as being offered in  
>two file formats: STANDARD and OPTIONAL. The only one you want to grab is the  
>OPTIONAL. Adding insult to injury, the files are not CR/LF delimited There  
is a shell script for the unix-inclined that's in

the unix command referred to is as follows:  
dd if=[input filename] of=[output filename] ibs=8000 cbs=80 conv=unblock

the type 7 and type 8 road data files will most likely be to big for mapfix;  
so all I can say is good luck thinning out those to files.

barrettd (^-^)

---

### 534. GPS direct to KPC3

From: wjh@ideas.com (William J. Howard)  
Date: Thu, 31 Aug 95 08:45:56 EDT  
To: aprssig@tapr.org  
Message-ID: <9508311245.AA25194@ideas.com>  
Rendered body type: text/plain

For the past year or so I've been running a GARMIN GPS50 in my van with an  
EPSON notebook computer and an MFJ TNC and the hardware single port mode of  
APRS. Since I went to a much smaller vehicle, there is no room for the  
computer. The GARMIN GPS50 hooked directly into the KPC3 with version 6.0

firmware (two wires, brown to pin 2, black to pin 7 of the serial port) works great! I miss seeing the computer screen, however, and wonder if anyone has interfaced a palmtop to APRS (I can probably find room for that)? Also, are there any finished or kit APRS to Doppler DF system interfaces available that share a single com port with the GPS and TNC? 73 - Bill WB3V

-----  
Bill Howard wjh@ideas.com web - <http://barettta.ideas.com/>  
Science Applications International Corporation, Ideas Group  
7120 Columbia Gateway Dr., Columbia, MD 21046  
Voice:(410)312-2060 Fax:(410)312-2250  
-----

---

### 535. Re: [APRSSIG:3097] Re: Weather variables comments

From: quarry@q.continuum.net (Chip Griffin)  
Date: Thu, 31 Aug 1995 08:56:56 -0400  
To: aprssig@tapr.org  
Message-ID: <v01520d00ac6b5ee29f33@[199.0.52.57]>  
Rendered body type: text/plain

>Actually, Hurricane Gilbert had the lowest pressure ever recorded in the  
>Atlantic Basin. The lowest sea-level pressure EVER recorded was in  
>Typhoon Tip (October, 1970) at 870 mb (25.70 in). I agree with Kevin,  
>though...pressures that low are extremely rare. It's important to note  
>that some of the extreme arctic cold air masses commonly have pressures as  
>high as 1045 or 1050 mb, and the highest ever recorded at sea-level was  
>1084 mb (32.01 in) in Siberia...again extremely rare conditions.

However, why design a program that may not cover an extreme? If you know approximately where the extremes are, then cover them with a little extra room. I guess I would have to recommend 25 to 33 (because I like even numbers 32.5 if you don't care) based on the info I've seen.

Chip Griffin - President of Thames River Apple Users Group  
System Operator of The Quarry (203-889-6427)

-----+-----  
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)  
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)  
emmet2@aol.com |

<http://q.continuum.net/~quarry/>

---

### 536. Re: [APRSSIG:3085] USGS download problems

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>  
Date: Thu, 31 Aug 1995 08:58:37 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: aprssig@tapr.org  
Message-ID: <Pine.3.89.9508310808.A23683-0100000@bcfreenet.seflin.lib.fl.us>  
Rendered body type: text/plain

hmmmm,

If I remember correctly you can enter a download filename by skipping a space and typing the name following the unix file string. Suggest you look at the ftp help for get.

William Manley KB4XE  
z002594b@bcfreenet.seflin.lib.fl.us

On Wed, 30 Aug 1995, Ralph Fowler, N4NEQ wrote:

> The way the files are currently named makes them impossible to download to a  
> DOS machine, as I see it.  
>  
> fo8.gdk.hjhdjh.jskjffj.jdkjfdkj.1 and on up for 6 files or so.  
>  
> As you can see, a DOS machine will translate all of them to the same name:  
> fo8.gdk  
> When done, you will have only ONE file, they all overwrite each other.

---

### 537. Re: [APRSSIG:3111] GPS direct to KPC3

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>  
Date: Thu, 31 Aug 1995 09:14:44 -0400  
To: aprssig@tapr.org  
Message-ID: <199508311318.JAA02969@neptune.gsfc.nasa.gov>  
Rendered body type: text/plain

At 07:51 8/31/95 -0500, you wrote:

>For the past year or so I've been running a GARMIN GPS50 in my van with an  
>EPSON notebook computer and an MFJ TNC and the hardware single port mode of  
>APRS. Since I went to a much smaller vehicle, there is no room for the  
>computer. The GARMIN GPS50 hooked directly into the KPC3 with version 6.0  
>firmware (two wires, brown to pin 2, black to pin 7 of the serial port)  
>works great! I miss seeing the computer screen, however, and wonder if  
>anyone has interfaced a palmtop to APRS (I can probably find room for that)?  
>Also, are there any finished or kit APRS to Doppler DF system interfaces  
>available that share a single com port with the GPS and TNC? 73 - Bill WB3V  
>-----  
>Bill Howard wjh@ideas.com web - http://bareta.ideas.com/  
>Science Applications International Corporation, Ideas Group  
>7120 Columbia Gateway Dr., Columbia, MD 21046  
>Voice:(410)312-2060 Fax:(410)312-2250  
>-----

Yes, I've run one of the earlier version (62C) of APRS in a single port mode with a 2 meg HP100LX palmtop. The screen is a little squished and the maps take forever to load, but otherwise works fine.

I ran APRS from raw dos on an "A" drive PCMCIA card and feed the GPS through the serial port. I forget if you need a null modem on the serial cable. I have enough room for the laptop, or I set up as a stand alone tracker, so I only set up the Palmtop some time ago to see if it would work. It did. Don't know if the newer, fatter versions will fit in memory. My configuration is 650k memory with about 580k free to run APRS in raw DOS.

Bob Kirk  
N30ZB

---

## 538. Re: APRS Wishlist

From: N9VJQ@aol.com  
Date: Thu, 31 Aug 1995 09:20:50 -0400  
To: aprssig@tapr.org  
Message-ID: <950831092050\_87893630@mail02.mail.aol.com>  
Rendered body type: text/plain

In a message dated 95-08-31 02:14:04 EDT, you write:

>If we could convince one of the tnc programmers to write a  
>APRS tnc eprom to parse this data into per 1 hour increments instead of 24  
>hour increments.

I second that, and I also would like to see the ability to use a single port laptop in mobile WX situations, just like the HSP switch allows for GPS use. Then a person could use a APRS/U-II combination in storm chasing or Hazmat situations. Or even better, combine a U-II/GPS to spot one's WX reporting position automatically.

Why should GPS get all the fun? :-)

73s barry n9vjq  
n9vjq@aol.com

---

## 539. Re: [APRSSIG:3114] Re: GPS direct to KPC3

From: "Tony Flusche" <tony\_flusche@compuware.com>  
Date: Thu, 31 Aug 95 09:12:05 EDT  
To: aprssig@tapr.org  
Message-ID: <199508311623.AA11939@stargate.compuware.com>  
Rendered body type: text/plain

Bill Howard WB3V wrote:

>Also, are there any finished or kit APRS to Doppler DF system  
interfaces >available that share a single com port with the GPS and  
TNC

I have a working Doppler to aprs interface but a VER 2 from N7LUE is coming. If I were you I would wait for that. Bob was working on a second switch DFSP that is needed in addition to HSP for single port Doppler-TNC-GPS. It appears to need some minor work still, I have it working with a doppler and GPS but haven't tried a TNC. There is also a problem with APRS plotting the doppler headings relative to north instead of the vehicle heading. Bob has been distracted by meteor scatter WX etc. where it appears more people are interested

## 540. APRS Docs

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)  
Date: Thu, 31 Aug 1995 10:20:37 -0700  
To: aprssig@tapr.org  
Message-ID: <v01510101ac6b994e08fc@[128.149.100.84]>  
Rendered body type: text/plain

I have this general problem with Shareware Docs, and APRS is no exception. When I try to print out the documentation that comes with it, it is a mess. Weird line breaks, characters, and all sorts of funny business. Cleaning it up is a major chore.

Does anyone have a nice, clean set of APRS Docs that I could either pay for repro and postage for a copy of, or an electronic u-Soft Word version that I might (probably won't) be able to make a clean print of?

-Greg

--  
Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov  
Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org  
Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA  
M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107  
Pasadena, CA 91109 |

---

## 541. For the assistance of APRS SIG members

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)  
Date: Thu, 31 Aug 95 13:17:33 UTC  
To: aprssig@tapr.org  
Message-ID: <4849@paccomm.com>  
Rendered body type: text/plain

This PacComm Application Note may be of assistance to some people on this forum. This information may apply to the WB4APR verison (ask Bob) and the AEA version (I don't know anything about it).

----- Forwarded message -----

>From gwyn Thu Aug 31 13:16:14 1995  
Received: from paccomm.com by paccomm.com (TN051.11b14) with SMTP  
id AA22629 ; Thu, 31 Aug 95 13:16:11 UTC  
X-BBS-Msg-Type: P  
Date: Thu, 31 Aug 95 13:16:11 UTC  
Message-Id: <4848@paccomm.com>  
From: gwyn  
To: gwyn  
Subject: APRS Port Switch

If You Have Difficulty Getting the APRS Port Switch to Work

There are two common problems to look for: The unit is not getting power or the GPS signals are at too low a level.

Use a voltmeter to determine if there is DC Voltage coming in from either the PC connector pin 6 or the TNC connector pin 6. If not, check for another pin on the PC or TNC which can provide 6-12 VDC and change the cable wiring accordingly.

If power is not available from the PC or TNC, then a 9 Volt battery may be connected to supply power between Pin 6 (+) and Pin 5 (-) of the RS-232 (PC) connector. This is also a good way to get the unit operating initially after trouble is experienced.

The other most likely cause of problems is inadequate drive in the positive direction from the GPS receiver. In some cases, DTR is always a little too high and this is the next most likely cause of trouble. The circuit works only on positive going signals. The GPS data output is fed through a 1k resistor and must have adequate drive capability to get at least 0.7V on the base of transistor TR3 in order to turn it on. This is normally the case, but SOME GPS receivers don't seem to do this. Adding a 4k7 resistor between the data input and pin 6 of either the TNC or computer port of the adapter should provide enough pull-up to make it work. The series 1k resistor on the GPS input cannot be lowered in value because TR4 is used to hard clamp the data and would short circuit the GPS output.....

DTR is used to switch the circuit between data sources. This needs to go at least 1.2V POSITIVE when the circuit is in the TNC mode. On some computers the low state was still too high and would cause

TR4 to remain turned on all the time, thereby preventing any GPS data to be gathered. A simplistic fix to this was to add a second diode in line with DD5 and thereby drop 0.7V. A better fix would be to vary the value of RD9 up a little.

Troubleshooting is performed by using APRS in HSP mode. Select Operations-Comm.-TNC to see TNC data (O-C-T). Select Operations-Comm.-GPS to see GPS data (O-C-G). A future APRS release may contain a simple toggle feature while in the O-C window to allow fast switching between TNC and GPS data. In the meantime, use O-C-T O-C-G , etc. to switch over.

Revision History for PacComm APRS Port Switch Units.

ECN 97 11/30/94: Add a 1N914 diode in series with D7 to work better with GPS inputs that have minimal negative voltage swing.

ECN 103 3/13/95: Connect Pin 6 of the TNC connector to Pin 6 of the PC connector to provide an additional source of supply voltage for computers with no wiring to Pin 6. PacComm TNCs provide +5 VDC on pin 6.

ECN 104 3/16/95: Change RD8 from 1k to 4.7k to improve TR2 switching reliability.

----- End of forwarded message -----

Gwyn Reedy, WIBEL      gwyn@paccomm.com      WIBEL@amsat.org

+ (813) 874-2980      Fax: + (813) 872-8696      BBS: + (813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

---

## 542. Re: [APRSSIG:3117] APRS Docs

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Thu, 31 Aug 1995 13:02:15 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130500ac6ba7e0e317@[199.1.11.102]>  
Rendered body type: text/plain

> Does anyone have a nice, clean set of APRS Docs that I could either pay for  
> repro and postage for a copy of, or an electronic u-Soft Word version that  
> I \_might\_ (probably won't) be able to make a clean print of?  
>  
> -Greg

Mac or PC version of APRS ???

If Mac version we could ask Keith to supply a Acrobat Reader version.

I can mail you an extra printout if you want or send via my low gain antenna..

73

Bob - Dallas, TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

## 543. Re: [APRSSIG:3112] Re: Weather variables comments

From: Jeff Ward <jward@marlin.gulf.net>  
Date: Thu, 31 Aug 1995 13:55:03 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSI.3.90.950831133234.20964A-100000@marlin.gulf.net>  
Rendered body type: text/plain

On Thu, 31 Aug 1995, Chip Griffin wrote:

>  
> However, why design a program that may not cover an extreme? If you know  
> approximately where the extremes are, then cover them with a little extra  
> room. I guess I would have to recommend 25 to 33 (because I like even  
> numbers 32.5 if you don't care) based on the info I've seen.  
>

I agree that the extremes should probably be covered. My point was just to clarify the extremes. 870 mb and 1084 mb are extremely rare. However, you may see 1040 or 1045mb a couple of times a year in the Northern Plains during winter. I remember an air-mass over Alaska a few years ago that was close to 1070mb.

In standard hourly weather observations, the NWS DOES report sea-level pressure to the NEAREST TENTH of a millibar, using only the last three digits (e.g. 025 is 1002.5 mb, 989 is 998.9 mb). And on National Meteorological Center synoptic surface charts, that's how it's plotted. I expect that's why APRS reports the pressure that way. Since many of us are using APRS in NWS offices with SKYWARN and other programs...it's nice to be consistent with the way NWS reports things. In cases of extreme pressures (either low or high) you can always figure out whether or not to add the leading "10" or "9" (or "8"??) just by looking at the weather that's occurring. If there's a hurricane, you know that the pressure is low...if there's an extremely cold arctic air mass, you know the pressure is high.

Jeff, N4TRY

---

#### 544. Re: [APRSSIG:3111] GPS direct to KPC3

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>  
Date: Thu, 31 Aug 1995 17:04:12 -0400  
To: aprssig@tapr.org  
Message-ID: <199508312104.RAA23958@dylan.mindspring.com>  
Rendered body type: text/plain

RE: Doppler with single port- send a message to Jim Sorenson, KA4IIA at ka4iia@radio.org  
He may very well be able to help you!

Ralph

At 07:50 AM 8/31/95 -0500, you wrote:  
>For the past year or so I've been running a GARMIN GPS50 in my van with an  
>EPSON notebook computer and an MFJ TNC and the hardware single port mode of  
>APRS. Since I went to a much smaller vehicle, there is no room for the  
>computer. The GARMIN GPS50 hooked directly into the KPC3 with version 6.0  
>firmware (two wires, brown to pin 2, black to pin 7 of the serial port)  
>works great! I miss seeing the computer screen, however, and wonder if  
>anyone has interfaced a palmtop to APRS (I can probably find room for that)?  
>Also, are there any finished or kit APRS to Doppler DF system interfaces  
>available that share a single com port with the GPS and TNC? 73 - Bill WB3V  
>-----  
>Bill Howard wjh@ideas.com web - <http://baretta.ideas.com/>  
>Science Applications International Corporation, Ideas Group  
>7120 Columbia Gateway Dr., Columbia, MD 21046  
>Voice:(410)312-2060 Fax:(410)312-2250  
>-----  
>  
>  
>

---

#### 545. Re: [APRSSIG:3118] For the assistance of APRS SIG members

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>  
Date: Thu, 31 Aug 1995 17:34:25 -0400  
To: aprssig@tapr.org  
Message-ID: <199508312134.RAA03391@dylan.mindspring.com>  
Rendered body type: text/plain

At 12:37 PM 8/31/95 -0500, you wrote:  
>This PacComm Application Note may be of assistance to some people on this  
>forum. This information may apply to the WB4APR verison (ask Bob) and the  
>AEA version (I don't know anything about it).  
>

Thanks, Gwyn-

I know this will certainly ansrew a lot of questions that I get from the locals  
Thanks for sharing it with us!

Ralph

---

#### 546. Re: [APRSSIG:3119] Re: APRS Docs

From: quarry@q.continuum.net (Chip Griffin)  
Date: Thu, 31 Aug 1995 17:55:29 -0400  
To: aprssig@tapr.org  
Message-ID: <v01520d00ac6bdfb1e67d@[199.0.52.53]>  
Rendered body type: text/plain

>If Mac version we could ask Keith to supply a Acrobat=81 Reader version.

I always hated Acrobat ... nice idea, but it takes up so much space on the







As far as ENTERING the Barometric pressure data, for Manual entry, I will allow the entry of EITHER millibars, Inches, or whatever anyone says makes sense, with the computer automatically converting between the different formats..

What we need to decide on (!SOON!) is what gets transmitted over the air.

Bob has already said that he transmits /Bxxx where xxx = millibars, however, in the recent discussion, some people say this is NOT sufficient, i.e 3 places of accuracy. So, I will ask my question again..

Given the format /Bxxx What should the 'xxx' be?

In the Mac version, I can easily handle 4 (or more) decimal places, but the PC version will probably have problems with that, so lets try to keep it to 3 places..

Keith

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services                                                 | 908 445-3695 Work       |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home       |

---

## 554. Re: [APRSSIG:3126] Re: APRS/WIN 95

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>  
Date: Thu, 31 Aug 1995 16:41:40 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <9508311641.aa03603@comix.Santa-Cruz.Ca.US>  
Rendered body type: text/plain

> On Thu, 31 Aug 1995, Samuel T. Nabkey wrote:  
> > Just tried it out tonight.. APRS runs fine here with '95 so far. I will  
> > fill in more later. Anybody else running it?  
> but will it run, in color, in a window?  
> 73 de Kevin KD4UYR

I'm not having much luck with APRS and Windoze 95.  
I'm currently running the ancient APRS 6.6 incantation  
which adds to the challenge. Here's what happens.

1. When APRS is in full screen mode, everything works perfectly.  
I do not have an msdos mouse driver loaded, so no mouse.

2. When APRS is running in a window ( alt-Enter ), aprs is  
apparently running. All the letter and number keys work fine,  
but not the cursor pad or PgUp/PgDn. The display is a perfect  
640x350 dot box on my 1024x768 screen.

3. When APRS is running in a window, the priority is apparently  
low enough that the usual beeps are sometimes extended to extra  
long tones. This seems to be controlled by whether the APRS  
window is the "active" (mouse inside) window.

4. The Windoze 95 "System Monitor" shows that APRS probably  
has a "spin loop" that consumes CPU cycles waiting for input.  
Kernel processor usage runs 100% with APRS active.

5. Shoving APRS from full screen to the "Task Bar" ( alt-Esc )  
results in APRS going comatose. Input is apparently buffered  
in the TNC as switching to the foreground results in a buffer  
flush.

This is about all I've done with my limited testing.  
More later.

--

# Jeff Liebermann Box 272 1540 Jackson Ave Ben Lomond CA 95005  
# 408.336.2558 voice wb6ssy@ki6eh.#nocal.ca.usa wb6ssy.ampr.org [44.4.18.10]  
# 408.699.0483 digital\_pager 73557,2074 cis [don't]  
# jeffl@comix.santa-cruz.ca.us scruz.ucsc.edu!comix!jeffl

---

## 555. Re: [APRSSIG:3105] SUX Map

From: John Baum <jbaum@freenet.columbus.oh.us>  
Date: Thu, 31 Aug 1995 21:55:32 -0400 (EDT)  
To: David Kaplan <DKAPLAN@netins.net>  
Cc: aprssig@tapr.org



The big DR i saw was because my PC clock was 30 seconds AHEAD of UTC so there was a temporary 31 day jump!

From: Don Smith <kd4ksv@hiwaay.net>  
Date: Thu, 31 Aug 1995 22:15:00 -0500  
To: aprsig@tapr.org  
Message-ID: <9509010315.AA10134@fly.HiWAAY.net>  
Rendered body type: text/plain

[illegible]

---==< Don KD4KSV >==---

# September 1995

Original source file: aprssig.9509

Source: <https://archive.org/details/tapr-1997>

Recovered from: [https://archive.org/download/TAPR-APRS\\_1995-09/TAPR-APRS\\_1995-09.txt](https://archive.org/download/TAPR-APRS_1995-09/TAPR-APRS_1995-09.txt)

## 1. Re: [APRSSIG:3073] Re: WX mods in work

From: JKANDEL@miami.ir.miami.edu  
Date: Fri, 01 Sep 1995 09:46:54 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <01HURA12PYVM8WJHK@miami.ir.miami.edu>  
Rendered body type: text/plain

I think you should have HC winds up to about 150 mph which is very usual. I agree that if you can;t do it any other way, do it in increments of 2 miles. I agree with Jim, K4GVO

Joel Kandel, KI4T

---

## 2. Re: [APRSSIG:3130] Re: Weather Variables

From: dwetzel@acs.uswest.com  
Date: Fri, 1 Sep 1995 08:07:42 -0500  
To: aprssig@tapr.org  
Message-ID: <046febe0@acmspgw1.mnet.uswest.com>  
Rendered body type: text/plain

Given the format     /Bxxx     What should the 'xxx' be?

I'm for millibars over the air, with user optional display with conversion.

Doug Wetzel  
KC7CO

---

## 3. Re: [APRSSIG:3137] Re: WX mods in work

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 1 Sep 1995 10:19:36 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950901101541.2093B-100000@greatlakes>  
Rendered body type: text/plain

On Fri, 1 Sep 1995 JKANDEL@miami.ir.miami.edu wrote:

> I think you should have HC winds up to about 150 mph which is very usual.  
> I agree that if you can;t do it any other way, do it in increments of 2  
> miles. I agree with Jim, K4GVO

All wind SPEED fields in the hurricane report are 3 digits.

THE QUESTION WAS THE RADIUS OF HC FORCE WINDS? Do HC force winds extend beyond 99 miles from the center? I AM allowing 3 digits for the range of TROPICAL STORM FORCE winds..

---

## 4. Unsubscribe aprssig

From: <HUFFORD@PENTAGON-HQDADSS.ARMY.MIL>  
Date: Fri, 1 Sep 95 11:03:32 EDT  
To: <APRSSIG@TAPR.ORG>  
Message-ID: <199509011503.KAA10044@sys1.tapr.org>  
Rendered body type: text/plain

COL KENT V. HUFFORD, DIRECTOR, USAASA, DSN 656-4882, FT BELVOIR  
Subject: Unsubscribe aprssig

UNSUBSCRIBE APRSSIG

\*\*\*\*\*  
HAVE A SAFE ARMY AIRSPACE DAY     \*  
\*\*\*\*\*

---

## 5. SUBSCRIBE APRSSIG

From: khufford@postmaster2.dot.gov  
Date: Fri, 01 Sep 95 12:41:33 EST  
To: aprssig@tapr.org  
Message-ID: <9508018099.AA809984220@postmaster2.dot.gov>  
Rendered body type: text/plain

SUBSCRIBE APRSSIG

## 6. Re: [APRSSIG:3123] Re: APRS Docs

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Fri, 1 Sep 1995 12:24:58 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130501ac6cea069cbf@[199.1.11.138]>  
Rendered body type: text/plain

>I always hated Acrobat ... nice idea, but it takes up so much space on the  
>hard drive and the extensions necessary to run it have conflicts with other  
>stuff I desire to have ...

The DSP-93 sig has covered the use of Acrobat in some detail.

It is one of the few cross platform "Free" software doc readers.  
It has worked well when text and graphics are needed in a publication.  
Post Scripts is still needed for CAD circuit diagrams.

Yes there are some conflicts with other items but :

The only (MAC) extensions necessary is the control panel device "ATM-LE 3.8.2"  
I don't use ATM so I just have the start up manager do a one time load for  
those few times I need Version 2.0.1 of Acrobat Reader.

The Fonts are only 360K of disk storage and don't use main memory when  
not used. The program is 746K and will fit on a floppy.

WINDOWS environment (L.J.Shepherd) said:

"The installation of the reader was straightforward in the  
WINDOWS environment The extra time spent with this new reader was worthwhile  
and would seem to present a nice alternative for those with laser or bubblejet  
printers."

Ron W5RKN said:

"you can get acroread.exe at ftp.adobe.com in  
/pub/adobe/Applications/Acrobat/Windows. Its 1405k and worth every byte.  
Let's not give up on pdf until someone comes up with a common,  
free substitute."

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

## 7. FAA to Upgrade GPS

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)  
Date: Fri, 01 Sep 1995 10:47:07 -0700  
To: aprssig@tapr.org  
Message-ID: <9509011743.AA13653@gvgadg.gvg.tek.com>  
Rendered body type: text/plain

>From sci.geo.satellite-nav newsgroup:

\*\*\*\*\*  
FAA to Upgrade GPS  
\*\*\*\*\*

The U.S. Federal Aviation Administration has awarded a \$475 million  
contract that will enhance the accuracy of the Global Positioning  
System (GPS) satellite navigation system, reports Matthew L. Wald in  
the Aug. 4, 1995, New York Times ("A Contract Is Awarded To Improve  
Navigation," p. A7).

The contract calls for construction of 36 ground-based  
reference receivers which will compute the positional errors in the

reference receivers which will compute the positional errors in the  
system and transmit that information to a central office. This  
correction factor then will be sent via geosynchronous satellite to  
GPS receivers which will use it to establish their locations more  
precisely. Officials hope the system will be operational by the end  
of 1998.

-----  
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Cybernetics Digest, a monthly summary of reports about converging  
information technologies.

(Contact: Terry Hansen, Cybernetics Digest, c/o KFH Publications  
Inc., 3530 Bagley Ave. N., Seattle, WA 98103; 206-547-4950; Fax:  
206-547-5355; E-mail: cybernbf@cuix.pscu.com. U.S. subscription  
rate: \$24; \$2 sample issue. Or visit us on the World Wide Web

at <http://www.pscu.com>)

-----  
Just turn off the SA and save \$475,000,000.

---

The opinions expressed in this message are those of the author only,  
and do not necessarily reflect the opinions of Tektronix or  
Grass Valley Group.

Randy Hall  
randyh@gvgadg.gvg.tek.com  
Grass Valley Group

---

## 8. Re: [APRSSIG:3143] FAA to Upgrade GPS

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Fri, 1 Sep 1995 13:45:17 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199509011845.NAA01241@solar.cs.tamu.edu>  
Rendered body type: text/plain

Randy Hall sez:

>  
> >From sci.geo.satellite-nav newsgroup:  
>  
> \*\*\*\*\*  
> FAA to Upgrade GPS  
> \*\*\*\*\*  
>  
> The U.S. Federal Aviation Administration has awarded a \$475 million  
> contract that will enhance the accuracy of the Global Positioning  
> System (GPS) satellite navigation system, reports Matthew L. Wald in  
> the Aug. 4, 1995, New York Times ("A Contract Is Awarded To Improve  
> Navigation," p. A7).

This refers to one POTENTIAL implementation of the Wide Area Augmentation  
System under review. The actual method of distribution, while it might have  
been stated in the contract award, is not finally settled and there's still  
some pretty significant discussion of how to distribute and how to control its  
integrity. I'd take a wait and see attitude to determine if WAAS will aid us  
in the sort (or even long) term.

Color me skeptical.  
73, gerry

--  
Gerry Creager N5JXS                   \* SAREX Co-Investigator  
gerry@cs.tamu.edu                   \* A little radio that lets kids talk  
                                     \* to astronauts, and smile  
\*\*\*\*\*

## 9. Re: [APRSSIG:3139] Re: WX mods in work

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)  
Date: Fri, 1 Sep 1995 18:21:42 -0500  
To: aprssig@tapr.org  
Message-ID: <199509012321.SAA00753@uxa.ecn.bgu.edu>  
Rendered body type: text/plain

On 9/1/95, Bob wrote,  
>  
>THE QUESTION WAS THE RADIUS OF HC FORCE WINDS? Do HC force winds extend  
>beyond 99 miles from the center? I AM allowing 3 digits for the range  
>of TROPICAL STORM FORCE winds..  
>  
>  
>

The answer is yes. I believe Felix had hurricane force winds extended  
out to 120 miles at one point? It certainly can happen and I would think  
you would want the program to be able to cover all of the possibilities.

73, Jay...

Jay Hainline KA9CFD EN40  
Macomb,IL  
msjth@uxa.ecn.bgu.edu

## 10. RE: [APRSSIG:3108] An APRS specific eeprom for TNC's



From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>  
Date: Fri, 01 Sep 95 16:31:00 cdt  
To: aprssig <aprssig@tapr.org>  
Message-ID: <304779F3@mailgtwy.nellis.af.mil>  
Rendered body type: text/plain

Hmmm might I suggest a polling mode... where the data only gets transmitted from a particular TNC when it is requested... just a thought... no serious need...

AH6LS  
sadowskp@usafcrqs.nellis.af.mil  
-----

>How about lets start a wish list of APRS features for a APRS SPECIAL EPROM.

---

## 11. Ver 73a announcement

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 1 Sep 1995 18:43:24 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950901184139.12273B-100000@greatlakes>  
Rendered body type: text/plain

Ver 73a finally posted. Includes WX, MScatt and SPACE mode changes:

- \* Added optional WX symbol definitions for the existing lettered circles  
Drizzle, Rain and Snow Showers, Haze, Lightening, Smoke, Dust(sand)  
Blowing snow, Freezing rain. See WX commands
- \* Hurricanes, Tropical Storms and Depressions shown in Red, Yel and Blue
- \* Wind radius shown for these storms if exact format is followed
- \* Manual DF Bearing now works for mobiles. See DF.txt
- \* Added MScatt receive mode and sender has choice of timing sector
- \* Faded objects no longer Dead Reckoned. Leaders also fade
- \* Dots command added for replays to force all symbols to small dots
- \* New MASTER/SLAVE mode for commercial applications using networked computers. One master has TNC/RADIO, but all slaves can see the data.
- \* Ver 73a added HSP toggling using F8 key while in the O-C-T mode

Ver 72d: Mods for Meteor Shower

- \* Forces FADE off in MScat mode so you can see posits over 2 hrs old
- \* BText no longer limited to 3 chars in MScat mode
- \* CONTROLS-XMT command now works in MScat mode
- \* Fixed MScat mode for Kantronics TNC's so that BEAM heading and Pwr show up
- \* alt-A ALL-CALL-PREFIXES now works in all modes, not just DXcluster
- \* In MScat mode now TNC FULL-DUPLEX is enabled so all locals transmit at same time vice consecutively for collision avoidance

---

## 12. wj9h

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 1 Sep 1995 23:01:04 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950901225749.12620B-100000@greatlakes>  
Rendered body type: text/plain

Someone wrote that WJ9H never got his V#. I cant find your message.  
So check his number on the next page...

V# is 10123  
GPS is 953  
WX is 902

---

## 13. Re: N7LUE APRS-DF interface

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 1 Sep 1995 23:09:28 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: fox-list@netcom.com  
Message-ID: <Pine.SUN.3.91.950901230558.12620D-100000@greatlakes>  
Rendered body type: text/plain

On Fri, 1 Sep 1995, Thomas Lewis wrote:  
> > I have been trying to contact N7LUE by email. Anyone been able to do  
> > that? Anyone have an email address for him that produces a response?  
> The last address I have for Robert (N7LUE) is CMPK59D@prodigy.com

APR REPLY: Bob is active duty military, and they have him hopping all over the planet. Occasionally he gets to go home to change bags and empty the mailbox... Weeks on end. SO hang in there....

de bob, wb4apr

---

## 14. APRS73a.ZIP

From: wnolle@ro.com (William Nolle)  
Date: Fri, 01 Sep 1995 22:29:58  
To: aprssig@tapr.org  
Message-ID: <199509020337.WAA09221@sh1.ro.com>  
Rendered body type: text/plain

Whoever uploaded APRS73a.ZIP, It has error in both the zipfile and the APRS73a.EXE after using ZIPFIX on it. I notified Bob but just wanted to let you know no use downloading it. I downloaded it 3 times just to make sure it was the file and not on my end,

Bill KE4EER  
wnolle@ro.com

---

## 15. Possible Error in 73a.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 1 Sep 1995 23:54:25 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950901235019.12667C-100000@greatlakes>  
Rendered body type: text/plain

Ill check it. My FTP system was up and down all day... maybe there was a problem.

----- Forwarded message -----  
From: William Nolle <wnolle@ro.com>

Bob i just downloaded APRS73a.ZIP 3 times just to make sure, but when using PKUNZIP i get an error, I used PFZIPFIX and it unzipped the files, but when using APRS73a.exe it locked up my computer and was giving me a loud steady beep. May want to check into that.

----- end of forwarded message-----  
I did notice tonight that my 486 laptop does NOT like the F7 high-res screen function. But this is the first time I have tried it in recent memory. Has anyone else had an F7 problem in any earlier versions?  
de wb4apr

---

## 16. APRS Mobile GPS DFing

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 1 Sep 1995 23:26:31 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: fox-list@netcom.com  
Message-ID: <Pine.SUN.3.91.950901231035.12667A-100000@greatlakes>  
Rendered body type: text/plain

With the latest APRS version 73a, I'm finally satisfied with the handling of the GPS heading and RELATIVE DF bearings.

Although APRS supports the automatic interface to Doppler DF's, the real advantage or 73a is that it works very well manually too. All you have to do to enter a DF bearing is hit the keys I-D and the RELATIVE bearing. APRS computes the true DF bearing based on the GPS heading and plots the bearing on the map from your present position, EVEN WHILE MOVING.

If you want to SAVE that posit and bearing on the map permanently, just press I-S. If you want to UPLINK it to other APRS stations on frequency simply press I-U. To make sure you get a GPS posit at the same time you are getting a good DF fix, the F8 key will force an immediate posit update from the GPS...

Even if you dont win the hunt, your track history replay will be impressive...

---

## 17. OMNI DF-ing

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 1 Sep 1995 23:49:57 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: fox-list@netcom.com  
Message-ID: <Pine.SUN.3.91.950901232639.12667B-100000@greatlakes>  
Rendered body type: text/plain

I don't think I knew of the FOX-LIST back when I finished all of the OMNI DF capabilities of APRS. So thought it was time for a re-hash of this new and very powerful DFing technique that can be used with ANY RADIO and ANY ANTENNA!

APRS plots all stations on a map. Knowing the stations antenna height above average terrain, APRS also plots the relative radio range of each station. With this minimum information, a fox or jammer can be located to within a neighborhood in seconds. EVERYONE can participate including mobiles, HT's, etc. NO SPECIAL DF EQUIPMENT IS REQUIRED.

As soon as the fox or jammer begins transmitting, everyone quickly switches to the input and notes the signal strength. NULL REPORTS are VERY VALUABLE!!! Ninty five percent of the statinos will NOT hear the fox, but these null reports represent everywhere that the fox is NOT! APRS draws BLACK circles around every null report, out to each stations radio range. Usually, this eliminates 95 percent of the entire metro area immediately. For stations that do hear the fox, APRS plots a colored circle inversly proportional to reported signal strength.

The BLACK circles overlap the colored circles and further eliminate areas. The area of the intersection of the brightest colored circles not blacked out by null reports is the probable location of the fox!

This technique should increase the number of DF participants by TWO orders of magnitude! First, because NO DF equipment NOR directional antennas are required. HT's, mobiles are excellent. SECOND, the omni DF technique is over and done in the first 5 minutes of a fox hunt. This lets dozens of stations to participate from their arm-chairs who do not have time to spend the whole day trying to pinpoint the final location of the fox. The purpose of this technique is to localize the area of a fox or jammer QUICKLY. THEN let the DF mobiles find the house and insert coax pins as needed later.

APRS also supports the fade-circle techniqe which can be used by a single omni mobile. He just drives around and preseses F5 everytime he is in an area of EQUAL signal strnegth. After 3 such points, APRS can compute a circle with the fox at the middle. The omni mobile drives to the center of that circle, inserts attenuation, and does the process again. Eventually with enough attenuation, and smaller and smaller circles, he arrives at the fox!

To see examples of these techniques, load the APRS backup files and REPLAY files: DF-OMNI, DF-FOX, AUTODF, DF-FOX1, 2, and 3.

P.S. This OMNI DF can be used AFTER THE FACT also. If every repeater organization would just designate a few APRS stations to collect position reports and jammer reports, a profile can be built up over time localizing the position of the jammer. The bottom line is that every mobile operator simply needs to understand the importance of the REVERSE button on his radio and HOW VALUABLE A NULL REPORT CAN BE!

---

## 18. 72ato73a.zip OK

From: Cap Pennell <cap@cruzio.com>  
Date: Sat, 2 Sep 95 1:19:50 PDT  
To: aprssig@tapr.org  
Message-ID: <199509020825.BAA29827@mail4.netcom.com>  
Rendered body type: text/plain

Downloaded 72ato73a.zip from ftp.tapr.org.  
Works fine here. Low/High res modes both okay too. Thanks much fer good work!

--

```
+-----+
| Cap Pennell      email: cap@cruzio.com   Lat/Long:3658.92N/12200.88W
| Santa Cruz, CA   packet radio: ke6afe@kg6ee.#nocal.ca.usa.noam
+-----+
```

## 19. Re: [APRSSIG:3139] Re: WX mods in work

From: "Jim Lynch" <k4gvo@america.net>  
Date: Sat, 2 Sep 1995 05:24:20 +0000  
To: Bob Bruninga <bruninga@nadn.navy.mil>, aprssig@tapr.org  
Message-ID: <199509020929.JAA26925@america.net>  
Rendered body type: text/plain

> Date: Fri, 1 Sep 1995 09:28:05 -0500  
> Reply-to: aprssig@tapr.org  
> From: Bob Bruninga <bruninga@nadn.navy.mil>  
> To: aprssig@tapr.org  
> Subject: [APRSSIG:3139] Re: WX mods in work

>  
> On Fri, 1 Sep 1995 JKANDEL@umiami.ir.miami.edu wrote:  
>  
> > I think you should have HC winds up to about 150 mph which is very usual.  
> > I agree that if you can;t do it any other way, do it in increments of 2  
> > miles. I agree with Jim, K4GVO  
>  
> All wind SPEED fields in the hurricane report are 3 digits.  
>  
> THE QUESTION WAS THE RADIUS OF HC FORCE WINDS? Do HC force winds extend  
> beyond 99 miles from the center? I AM allowing 3 digits for the range  
> of TROPICAL STORM FORCE winds..  
>  
You don't have to shout. I was just suggesting that you had a field  
of 2 characters and that it was possible that this field may contain  
a number greater than 99. All I suggested was if that was the case,  
you could extend the range of a 2 digit field by using the number to  
indicate units of 2 miles rather than one. Forgive me for living.  
Sheesh.

Jim.

>  
Jim Lynch                      Fayetteville, GA              K4GVO  
'86 GL1200I                  k4gvo@america.net              44.36.34.20

---

## 20. RE:WEATHER variables

From: jeff.brenton@espi.com  
Date: Sat, 02 Sep 95 02:08:44 -0500  
To: aprssig@tapr.org  
Message-ID: <9509020208.030IE02@espi.com>  
Rendered body type: text/plain

What would be nice is if the APRS standard allowed us to append a  
character to the wind speed and other reports to remove the abiguity -  
on the output of the Heath weather station, it gives the unit of  
measure being used, and a revised APRS standard could take that into  
account.

Example: Heath Wx station wind report is "w015M030D", the average wind  
is from 030 degrees at 15 MPH. "w015K030D" means 15 knots, and  
"w015L030" means kilometers per hour.

Example: Heath Ex station barometer report is "B3015", barometer is at  
30.15 inches. "B1013M" means 1013 millibars.

Proposal: Assume the "old standard" reports are in MPH and INCHES for  
wind speed and barometer (knots for RMC fixes). Introduce NEW standard,  
which will, unfortunately, break older versions, that allows M for Mph,  
K for Kilometers per hour, and N for kNots in the wind speed field, and  
I for Inches, M for Millibars in the /B barometer field.

Alternative proposal: Have a /U (for Units) field, which specifies  
what units are being used, as in /UMI means MPH and Inches, /UKM is Kph  
and Millibars, and /UNM is kNots and Millibars. This doesn't break old  
APRS versions, because they don't parse beyond the rain field, anyway...

---

## 21. Re: [APRSSIG:3156] RE:WEATHER variables

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 2 Sep 1995 10:39:16 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950902103144.13376C-100000@greatlakes>  
Rendered body type: text/plain

On Sat, 2 Sep 1995 jeff.brenton@espi.com wrote:  
>

> What would be nice is if the APRS standard allowed us to append a  
> character to the wind speed and other reports to remove the ambiguity -  
> on the output of the Heath weather station, it gives the unit of  
> measure being used, and a revised APRS standard could take that into  
> account.

My philosophy has been that units characters are wasted characters. There is no need to have multiple transmissions standards. What this means, is that everything is transmitted in only one unit, but on receive, the APRS software should give you a CHOICE in display units.

I finally got around to giving the Centigrade option. Now with the MacAPRS Heath interface giving barometric pressure, I guess I will have to give an inches/millibar option. But the on air value will only be one. That leaves more room on our very short comment field.... hi hi

---

## 22. Re: [APRSSIG:3147] Ver 73a announcement

From: W2H0B@aol.com  
Date: Sat, 2 Sep 1995 11:20:07 -0400  
To: aprssig@tapr.org  
Message-ID: <950902112006\_89639587@mail04.mail.aol.com>  
Rendered body type: text/plain

APRS 7.3a has been running at Burlington NJ for about 12-hours now and all seems to work as described. Nice job, Bob.

Thanks es 73 de Boyd AR

---

## 23. Re: [APRSSIG:3151] Possible Error in 73a.zip

From: W2H0B@aol.com  
Date: Sat, 2 Sep 1995 11:20:11 -0400  
To: aprssig@tapr.org  
Message-ID: <950902112010\_89639623@mail02.mail.aol.com>  
Rendered body type: text/plain

For Bob & Bill...

I downloaded 73a from ftp.tapr.org without a hitch. It unzipped without a problem. I answered all the questions for its new config file and off she went... no problems guys.

73 de Boyd AR

---

## 24. Re: [APRSSIG:3154] 72ato73a.zip OK

From: W2H0B@aol.com  
Date: Sat, 2 Sep 1995 11:20:12 -0400  
To: aprssig@tapr.org  
Message-ID: <950902112011\_89639634@mail04.mail.aol.com>  
Rendered body type: text/plain

I think I see the problem... I also used the filename 72ato73a.zip which went good but there was also the filename APRS73A.ZIP which was only about 200K or so and I did not grab that one... maybe that's the one ya'll had trouble with.

73 de Boyd AR

---

## 25. Re: [APRSSIG:3159] Re: Possible Error in 73a.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 2 Sep 1995 13:28:36 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950902132725.13694C-100000@greatlakes>  
Rendered body type: text/plain

On Sat, 2 Sep 1995 W2H0B@aol.com wrote:

> I downloaded 73a from ftp.tapr.org without a hitch. It unzipped without a  
> problem. I answered all the questions for its new config file and off she  
> went... no problems guys.

WHAT version of 73a? there is the full up system, APRS73A and there are two upgrade files 72ato73a.zip and 72cto73a.zip. Which of the 3 did you get?

---

## 26. WIDES

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 2 Sep 1995 13:37:55 -0400 (EDT)  
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.950902133056.13694E-100000@greatlakes>  
Rendered body type: text/plain

On Sat, 2 Sep 1995 KD4EMI@aol.com wrote:

> Brothers to the rescue , a local Cuban political group has taken a  
> shining to your program. It is interesting to see them flying around down the  
> keys (KB4TFF).... It is fun to watch them in the Y mode...  
>  
> I operate a local WIDE-DIGI. It is the local hospital's equipment and we  
> are lucky to be high up and high power. Several local stations that are  
> within about 4 miles of me have also set their stations up as  
> WIDE-DIGI'S. The sad part is that they have limited power and  
> really dont get out much. One even operates a indoor station !

WIDES should be WIDELY separated! Tell them to read the DIGIS.txt file.  
It used to be that a lot of WIDES were needed to cover low power mobiles.  
BUT NOW WITH DUAL ALIAS TNC's, EVERY WIDE SHOULD ALSO HAVE THE ALIAS RELAY.  
THIS way, EVERY APRS STATION ON THE AIR INCLUDING THE WIDES ARE RELAY's  
and therefore every LOW POWER mobile should go via RELAY,WIDE etc. There  
is no longer any excuse for having WIDES anywhere but on the very best  
VHF locations and WIDELY distributed.

---

## 27. Hurricane format ARGH!

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 2 Sep 1995 13:55:22 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950902133859.13694F-100000@greatlakes>  
Rendered body type: text/plain

Well, the new format of 73a looked fine on my machine, I couldnt wait to  
see the crop of hurricanes out there start popoing up when KD4UYR began  
using the new format. BUT..... I forgot one thing... The <UYR> gets  
appended to the end of all OBJect reports and that overwrites the last 5  
characters of the report! ARGH! APRS was going to use those characters  
to plot a range circle around the hurricane showing the radius of winds...

So instead of figuring out a way to gain one more character for the HC  
wind radius, I now have to find an additional 5 more!

APRS overwrites the suffix of the senders call on all OBJs: <UYR>

EXISTING FORMAT: ...LAT/LONG@CSE/SPD/HC/120^140mph/0978/out33&150

NEW PROPOSED FORMAT...LAT/LONG@CSE/SPD/HC/120^140/978>033&150 <UYR>

Here I have left out the MPH and the OUT identifiers and now the  
> symbol will indicate the radius of hurricane force winds and the  
& symbol will indicate the radius of tropical storm force winds

Now I have one question. Do they really measure sustained winds and PEAK  
winds? Or is the PEAK wind always a fixed ratio above the sustained?  
If it is a constant, then there is no need for the PEAK winds to be  
transmitted, since we can calculate it based on the sustained winds,  
and pick up 4 more characters...

---

## 28. Re: OMNI DF-ing

From: Malcolm Mallette <mmallette.kdac@ash.palni.edu>  
Date: Sat, 2 Sep 1995 12:57:30 -0500 (EST)  
To: Bob Bruninga <bruninga@nadn.navy.mil>  
Cc: aprssig@tapr.org, fox-list@netcom.com  
Message-ID: <Pine.SOL.3.91.950902125150.7712A-100000@ash>  
Rendered body type: text/plain

In reply, I would suggest that all exchange of signal reports in df  
situation involving jammers take place on the telephone.

Our DF group in Indianapolis has had many situations when a person  
without a call using a stolen rig was about to be found but some well  
intentioned ham started talking about the situation.

We never discuss jammers on the air. Always use the phone. That should be  
in the instructions for APRS.

If people have to discuss jammers on the air, and exchange signal reports  
relating to jammers or intruders on the air, the DF operation would be  
better off without that "Help".

Malicious operation is increased, not decreased, by any mention on any  
frequency, where the bad operator, or his buddy, may be listening.

Loose mouths help the bad guys and feed their ego, keep discussions about jamming and the like on the land line.

Of course, stuck transmitter are a different matter.

Malcolm WA9BVS

On Fri, 1 Sep 1995, Bob Bruninga wrote:

> I don't think I knew of the FOX-LIST back when I finished all of the OMNI  
> DF capabilities of APRS. So thought it was time for a re-hash of this  
> new and very powerful DFing technique that can be used with ANY RADIO and  
> ANY ANTENNA!  
>  
> APRS plots all stations on a map. Knowing the stations antenna height  
> above average terrain, APRS also plots the relative radio range of each  
> station. With this minimum information, a fox or jammer can be located  
> to within a neighborhood in seconds. EVERYONE can participate including  
> mobiles, HT's, etc. NO SPECIAL DF EQUIPMENT IS REQUIRED.  
>  
> As soon as the fox or jammer begins transmitting, everyone quickly  
> switches to the input and notes the signal strength. NULL REPORTS are  
> VERY VALUABLE!!! Ninety five percent of the stations will NOT hear the  
> fox, but these null reports represent everywhere that the fox is NOT!  
> APRS draws BLACK circles around every null report, out to each stations  
> radio range. Usually, this eliminates 95 percent of the entire metro  
> area immediately. For stations that do hear the fox, APRS plots a  
> colored circle inversely proportional to reported signal strength.  
>  
> The BLACK circles overlap the colored circles and further eliminate  
> areas. The area of the intersection of the brightest colored circles not  
> blacked out by null reports is the probable location of the fox!  
>  
> This technique should increase the number of DF participants by TWO  
> orders of magnitude! First, because NO DF equipment NOR directional  
> antennas are required. HT's, mobiles are excellent. SECOND, the  
> omni DF technique is over and done in the first 5 minutes of a fox hunt.  
> This lets dozens of stations to participate from their arm-chairs who do  
> not have time to spend the whole day trying to pinpoint the final  
> location of the fox. The purpose of this technique is to localize the  
> area of a fox or jammer QUICKLY. Then let the DF mobiles find the house  
> and insert coax pins as needed later.  
>  
> APRS also supports the fade-circle technique which can be used by a single  
> omni mobile. He just drives around and preseses F5 everytime he is in an  
> area of EQUAL signal strength. After 3 such points, APRS can compute a  
> circle with the fox at the middle. The omni mobile drives to the center  
> of that circle, inserts attenuation, and does the process again.  
> Eventually with enough attenuation, and smaller and smaller circles, he  
> arrives at the fox!  
>  
> To see examples of these techniques, load the APRS backup files and  
> REPLAY files: DF-OMNI, DF-FOX, AUTODF, DF-FOX1, 2, and 3.  
>  
> P.S. This OMNI DF can be used AFTER THE FACT also. If every repeater  
> organization would just designate a few APRS stations to collect position  
> reports and jammer reports, a profile can be built up over time  
> localizing the position of the jammer. The bottom line is that every  
> mobile operator simply needs to understand the importance of the REVERSE  
> button on his radio and HOW VALUABLE A NULL REPORT CAN BE!  
>  
>

---

## 29. Re: [APRSSIG:3164] Re: OMNI DF-ing

From: dvelez@norfolk.infi.net (Daniel Velez)  
Date: Sat, 02 Sep 1995 15:20:01 -0400  
To: aprssig@tapr.org  
Message-ID: <199509021920.PAA01206@larry.infi.net>  
Rendered body type: text/plain

Malcolm - all this can happen on packet since John Q Public is not likely to be listening to packet \_and\_ jamming the repeater at the same time. Just a thought.

73 de Dan

>In reply, I would suggest that all exchange of signal reports in df

### 30. APRS Mobile GPS DFing

13: [1;33;42mRainbow V 1.19.3 for Delphi - Registered

73 de Kevin KD4UYR



> in the instructions for APRS.

If you have a jammer with a stolen HT who can 1) determine what frequency APRS is being used on in the local area, 2) decode the 12 byte or so 1200 baud ASCII string that has DF information in it just from listening on his stolen HT while he jams your repeater then I'd say you'd better leave that dude alone, or better yet, get him licensed!

Part of the beauty of APRS is that since its a different modality from most jamming its pretty tough to know you're being surveilled by the local foxhunters.

If you just have FM repeaters available, I'd agree: Keep the info channel confined to the telephone, however APRS is certainly secure enough for the random kid/hood/whatever that is intruding. Try it; you'll like it!

John  
WN9T

---

### 33. MacAPRS Maps

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Sat, 2 Sep 95 18:40:34 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.810081634.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

I have been busy making a bunch of State maps for Macintosh APRS. All of these files are up on ftp.tapr.org in the directory

/tapr/SIG/aprs/upload/MacMaps

These are hi-rez state maps with 20,000 - 30,000 points each.

I am in the process of making maps of all 50 states, but if you need one that not there yet, send me mail and I will see what I can do.

Keith Sproul

|                                       |                         |
|---------------------------------------|-------------------------|
| Keith Sproul                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work       |
| http://www-ns.rutgers.edu/~ksproul/   | 908 821-4828 Home       |

---

### 34. Re: [APRSSIG:3163] Hurricane format ARGH!

From: Jeff Ward <jward@marlin.gulf.net>  
Date: Sat, 2 Sep 1995 18:51:37 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSI.3.90.950902185015.20483B-100000@marlin.gulf.net>  
Rendered body type: text/plain

I think we need the gusts Bob, they are not always a fixed ratio above the maximum sustained winds. The new wx stuff really looks great! Thanks!

73 de Jeff, N4TRY

On Sat, 2 Sep 1995, Bob Bruninga wrote:

> Now I have one question. Do they really measure sustained winds and PEAK  
> winds? Or is the PEAK wind always a fixed ratio above the sustained?  
> If it is a constant, then there is no need for the PEAK winds to be  
> transmitted, since we can calculate it based on the sustained winds,  
> and pick up 4 more characters...  
>

---

### 35. Hurricanes

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 2 Sep 1995 21:53:51 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950902214317.14063C-100000@greatlakes>  
Rendered body type: text/plain

I was relieved when I looked at my screen later tonight and saw the colored storms in the atlantic AND the wind radii just as I had intended despite my previous message! My previous message was a little frustrated since the new format I had defined for the hurricanes radii was defeated by the <xxx> overwritten on every OBJ!

It turns out that KD4UYR solved the problem for now, by just dropping the Peak winds and MPH so that the line is short enough so that the radii are not affected. Thanks! This will get us through this hurricane season without me having to make another release.

The only thing that 73a looks for is the TYPE of storm (HC, TS, or TD) and the letters "out" so it can find the radii... The rest of the format was only a suggested format. The long term fix will be as described in my previous message so that we continue to get peak winds and central pressure.

---

### 36. Re: [APRSSIG:3161] Re: Possible Error in 73a.zip

From: rkramer@vaxxine.com (Ronald Kramer)  
Date: Sat, 2 Sep 1995 22:00:17 -0400  
To: aprssig@tapr.org  
Message-ID: <9509030200.AA13630@alpha.vaxxine.com>  
Rendered body type: text/plain

>  
>On Sat, 2 Sep 1995 W2H0B@aol.com wrote:  
>  
>> I downloaded 73a from ftp.tapr.org without a hitch. It unzipped without a  
>> problem. I answered all the questions for its new config file and off she  
>> went... no problems guys.  
>  
>WHAT version of 73a? there is the full up system, APRS73A and there are  
>two upgrade files 72ato73a.zip and 72cto73a.zip. Which of the 3 did you get?  
>  
Bob I downloaded 72cto73a.zip last night and it was OK.  
Could he possibly have not downloaded it in BINARY....  
that sounds like the problem you had when you first  
started uploading to tapr.org.  
Regards, Ron ... 73 de Ron  
Internet: rkramer@vaxxine.com (Ron Kramer)  
Packet: ve3mx@ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

---

### 37. Re: [APRSSIG:3172] Re: Possible Error in 73a.zip

From: W2H0B@aol.com  
Date: Sat, 2 Sep 1995 23:31:39 -0400  
To: aprssig@tapr.org  
Message-ID: <950902233138\_89999502@mail06.mail.aol.com>  
Rendered body type: text/plain

I think our messages are crossing and are "out-of-sync"... Ron Kramer thinks I had a problem with the download... no I didn't, but Bill Knolle did... seems the "full version" filename of APRS73A.ZIP (200K) was corrupted but the other two files were ok as I downloaded 72AT073A.ZIP without any problem.

I wasn't sure whether APRS73A.ZIP was supposed to be a full version of maybe just the executable, but at 200K, I knew something wasn't right so I elected to get one of the other files... guess I'm glad I did! All this was from tapr.org's ftp site.

Anyway... 7.3a is running like a charm here and I like the new weather features. Thanks all again... hope this puts the file download topic to bed!

73 de Boyd AR

---

### 38. WEATHER VARIABLES

From: jeff.brenton@espi.com  
Date: Sat, 02 Sep 95 22:03:47 -0500  
To: aprssig@tapr.org  
Message-ID: <9509022203.0UZT900@espi.com>  
Rendered body type: text/plain

Bob B says he doesn't like unit characters. OK, I can live with that. I can even live with going to a 100% fixed-format, with no "parse characters", such as the /Tnnn and /Rnnn prefixes, so long as it is documented.

If the APRS standard for pressure is to be millibars, and speed in knots, I will modify my Heath scripts to convert to those - while it will automatically display such if I ask, this particular unit is being used at our ESDA, and they don't want knots and millibars...

But, again, we need to lock it down as to WHAT the standard is, before we can start conforming to it.

### 39. Re: hurricanes and other things

From: "Jim Lynch" <k4gvo@america.net>  
Date: Sun, 3 Sep 1995 07:26:28 +0000  
To: aprssig@tapr.org  
Message-ID: <199509031131.LAA11334@america.net>  
Rendered body type: text/plain

Hi, Bob,

Thanks for the explanation. I have a question. I've got a PK-900 that will run two ports simultaneously like the kam plus. I looked through the docs and didn't see how I might be able to use it on 2 and 30 at the same time. It works ok for receiving but obviously sends on only the manually selected channel.

If you don't support it and want to, I'll be glad to furnish you with any technical info that I have.

Thanks,  
Jim.

|             |                   |             |
|-------------|-------------------|-------------|
| Jim Lynch   | Fayetteville, GA  | K4GVO       |
| '86 GL1200I | k4gvo@america.net | 44.36.34.20 |

---

### 40. (F)ile (C)hange maplist

From: dvelez@norfolk.infi.net (Daniel Velez)  
Date: Sun, 03 Sep 1995 09:21:17 -0400  
To: aprssig@tapr.org  
Message-ID: <199509031321.JAA13944@larry.infi.net>  
Rendered body type: text/plain

Bob,

A minor note: (F)ile (C)hange maplist doesn't exist anymore (now (M)aps (C)hange or something like that) but the onscreen box for a new user still refers to (F) (C)...

73 de Dan

.....  
Dan Velez : A00000GA! A00000GA!  
EMAIL: dvelez@infi.net :  
AMATEUR RADIO: N4WZR@WD4MIZ.VA.USA.NOAM : DIVE! DIVE! DIVE!  
.....

---

### 41. APRS73A.zip...?problem...not

From: warakois@world.std.com (James A Warakois)  
Date: Sun, 3 Sep 1995 10:13:30 -0400  
To: aprssig@tapr.org  
Message-ID: <199509031413.AA03633@world.std.com>  
Rendered body type: text/plain

Hi All,

I downloaded the above mentioned version from the ARC (Maryland)...and have found no problem unzipping or operating so far (running 24 hours)...I did find that the FC suggestion box on boot-up should now read MC..but further investigation would have shown me that logical repositioning of the menu prompt...  
anyhow for K4EER.. check the site..there have been other jammups recently because of compression protocols etc....

HAPPY APR ing....Jim

---

### 42. Re: [APRSSIG:3174] WEATHER VARIABLES

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Sun, 3 Sep 95 10:34:06 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.810138846.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

>

> Bob B says he doesn't like unit characters. OK, I can live with that.  
> I can even live with going to a 100% fixed-format, with no "parse  
> characters", such as the /Tnnn and /Rnnn prefixes, so long as it is  
> documented.  
>

I have no problem with NOT having the UNIT characters, However, except for the CSE/SPEED, I insist on PARSE characters, there are too many things popping up that may or may-not be there with different systems to NOT have this..

Currently the list includes

CSE/SPD No Parse Chars (Same fields are used for RDF, and moving objects)  
/Txxx Temperature  
/Rxxx Current Rain  
/Pxxx Rain for last 24 hours  
/Bxxx Barometric pressure (units still under discussion)  
/A=xxxxxx Altitude  
/Hxxx Humidity, max = 100, left at 3 chars for sanity  
/Gxxx Wind Gust

With some of the other weather stations being supported, I expect this list to grow some.

Bobs software expects the data to be in a certain order, which my software produces, the same order, but my Parse routines will actually handle it in any order it comes in, it will also handle any number of characters, not just 3 like Bobs.. Again, my software ONLY transmits stuff with 3 chars to stay compatible with Bob...

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services                                                 | 908 445-3695 Work       |
| <a href="http://www-nr.rutgers.edu/~ksproul/">http://www-nr.rutgers.edu/~ksproul/</a> | 908 821-4828 Home       |

---

### 43. Re: [APRSSIG:3160] Re: 72ato73a.zip OK

From: [elliott@itek.net](mailto:elliott@itek.net)  
Date: Sun, 3 Sep 1995 10:05:08 -0500  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org), [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <199509031505.KAA13179@balrog.itek.net>  
Rendered body type: text/plain

Bob, can any of these be used to upgrade APRS 7.2d? The APRS73a file isn't large enough to be the full program and you dont have a 72dto73a file.

Thanks in advance

Mark de N9WST

---

### 44. Re: [APRSSIG:3174] WEATHER VARIABLES

From: [W2H0B@aol.com](mailto:W2H0B@aol.com)  
Date: Sun, 3 Sep 1995 10:58:32 -0400  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <950903105831\_9927005@mail02.mail.aol.com>  
Rendered body type: text/plain

As ARRL SEC for SNJ, I always encourage ARES ECs and their county staffs to provide what their served-agency officials want and not what we think they want. By the same token, I would suggest that we, as APRS'ers, sit back and think of whom we are going to provide the weather reports to and what or how they want it... then strive toward that end.

I think Bob (APR) had a resonable approach in that a standard "sentence" or string be sent over the air and let the APRS receive end do any conversion necessary to provide any "served-agency officials" the info in the format they want it to be in.

The other alternative might be to determine what the majority of the "served-agency officials" want and code it that way without any conversion choices. ^^^^^^

Just a thought!  
73 de Boyd AR

---

### 45. Rag Chewing on APRS

From: [N9VJQ@aol.com](mailto:N9VJQ@aol.com)  
Date: Sun, 3 Sep 1995 12:02:58 -0400  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <950903120257\_90198201@emout04.mail.aol.com>  
Rendered body type: text/plain

I seem to remember from the documentation that APRS is not designed for ragchewing. This seems logical, as the APRS packets are not going to anyone in particular, so if they get blocked by a QSO, the sending UNPROTO station won't send it again. However the QSO station keeps sending the same message until it gets ACKed.

This didn't pose a big problem until more and more APRS stations came on

freq. Now we've got stations advising other stations to put GATE in their UNPROTO path, so DX stations can hear them.

I think what did it for me was a station in GA conversing with a station in AL about camping. It's nice though that packet puts the sending station's callsign on. We can find out who's ragchewing.

Can I ask that we all (me too!) restrain from using APRS to conduct live conversations?

Thanks and 73's  
Barry Leonard N9VJQ

---

## 46. APRS73A.zip problem on ftp.tapr.org

From: n4uls@ix.netcom.com (Jack Anderson )  
Date: Sun, 3 Sep 1995 09:20:38 -0700  
To: aprssig@tapr.org  
Cc: bruninga@nadn.navy.mil  
Message-ID: <199509031620.JAA14609@ix6.ix.netcom.com>  
Rendered body type: text/plain

There may be a problem with the full 73a file on the TAPR FTP server.

I noted the following when I check the /tapr/SIG/aprssig/upload listing for APRS73A.ZIP:

```
-rw-rw-r--  1 404      402      236032 Sep  1 23:06 aprs73a.zip  
          ^^^^^^
```

For a full release file, sizes of less than 1 megabyte for the zipfile are unusual. I have not tried to run this yet.

Jack  
N4ULS

---

## 47. Re: [APRSSIG:3179] Re: 72ato73a.zip OK

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 3 Sep 1995 16:29:11 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950903162820.15040D-100000@greatlakes>  
Rendered body type: text/plain

On Sun, 3 Sep 1995 elliot@itek.net wrote:

> Bob, can any of these be used to upgrade APRS 7.2d? The APRS73a file isn't  
> large enough to be the full program and you dont have a 72dto73a file.

YOU CAN ALWAYS UPGRADE WITH ANY UPGRADE FILE FOR A VERSIN EARILER THAN YOURS.

---

## 48. APRS HF GATE

From: wnolle@ro.com (William Nolle)  
Date: Sun, 03 Sep 1995 15:38:34  
To: aprssig@tapr.org  
Message-ID: <199509032044.PAA04802@sh1.ro.com>  
Rendered body type: text/plain

Well it looks like we are discussing HF Gates again hi hi.  
Well so far it has manages to just about kill all possibility's of building aprs in North Alabama. It has gone way out of hand, If is used as intended it would be great, but all i see is HF Gaters using the Bulletin function for sending messages back and forth. I think Barry N9VJQ may think APRS cannot or should not be used for keyboarding, well if it's kept locally and don't do as some that use WIDE,WIDE,WIDE like W7LUS in GA then that is not a big problem at all. We have done this many times by just going trough our digi and nowhere else, I don't mind telling you that i'm to a point where i'm going to exercise my right's as having the only coordinated digi site in the southern states it looks like to use it for other things then strcitly APRS. My coordination papers say Packet activity this of course includes keyboarding Barry!. I have seen activity go down from seeing 30 or more users to 3 or 4 lately. We had good intentions to build APRS in this area for community service (Specially weather) but this is being ruined by Gates and users throwing up uncoordinated digi's just wherever they feel like throwing up one. So the result may be just a great keyboarding digi for North Alabama. I hate to be a party pooper but don't want to let this coordinated digi site go by the wayside, i worked to hard to get it in the first place. The thing i'm saying if we as APRS users don't organize we are going to kill it ourselves either with gates or those people that feel they don't need to coordinate anything including digi sites. I had an old timer tell me that flat out "i'm going to do what i want to do, nobody is going to tell me different. Well with that i will get off of this horse again and i'm sure i will be receiving a

lot of flack for this posting but fellows i can take it, I have been through enough in my lifetime that you don't have to feel bad at all to throw it at me good or bad hi.. I know i will get lots of it from Georgia "Hi fellows\*.

Bill KE4EER  
wnolle@ro.com

---

## 49. Re: [APRSSIG:3181] Rag Chewing on APRS

From: "Paul Knupke (CS)" <knupke@babbage.csee.usf.edu>  
Date: Sun, 3 Sep 1995 17:07:51 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950903170432.27333A@babbage>  
Rendered body type: text/plain

On Sun, 3 Sep 1995 N9VJQ@aol.com wrote:

> This didn't pose a big problem until more and more APRS stations came on  
> freq. Now we've got stations advising other stations to put GATE in their  
> UNPROTO path, so DX stations can hear them.

That is a problem. No one should be putting GATE in their path unless they have darn good reason to do so. It wasn't a problem on a special event like Field Day ... the APRS network provided a neat way for FD stations to show they are out there. For every day use it is a problem.

> Can I ask that we all (me too!) restrain from using APRS to conduct live  
> conversations?

We do a fair amount of ragchewing on VHF APRS around here and no one really complains. The key is to change your unproto path to the shortest necessary. We use it during Skywarn as well as other times. The ragchews aren't usually long or drawn out but there doesn't seem to be a problem around here with the APRS users ragchewing with the "S" function.

The really great aspect of ragchewing in APRS is the fact one can have several on going separate conversations easily.

73 de KR4YL  
Paul // Largo, FL

```
=====
Paul Knupke, Jr.           / Pinellas County ARES Asst. EC
knupke@babbage.csee.usf.edu / Pinellas County Skywarn
Largo, FL USA             / Fidonet 1:3603/570
Amateur Radio Callsign KR4YL / Packet @N4CNW.#TPA.FL.USA.NOAM
=====
```

---

## 50. Rag Chewing on APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 3 Sep 1995 16:24:58 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950903161438.15040C-100000@greatlakes>  
Rendered body type: text/plain

On Sun, 3 Sep 1995 someone wrote:

> I seem to remember from the documentation that APRS is not designed for  
> ragchewing....  
>  
> This didn't pose a big problem until more and more APRS stations came on  
> freq. Now we've got stations advising other stations to put GATE in their  
> UNPROTO path, so DX stations can hear them.  
>  
> Can I ask that we all (me too!) restrain from using APRS to conduct live  
> conversations?

APR REPLY: Good question.. You will notice that APRS no longer has that nagging prompt about using APRS for ragchewing. These days, along the eastern seaboard from Va to New York we have pages of stations on line, but the only QSOs i see are usually from the HF gate... Actually, if I don't see any chit-chat, I wonder if it is working...

So I personally don't mind reading the mail. What I think the lower activity means (along our 15 digipeaters) is that more people are using a PATH intelligently selected to keep their messages local or point to point instead of everything going everywhere....

I removed the NAG about not using APRS for rag-chewing, back when I added the DIGIPEATER list and therefore the ability to have a DIFFERENT path

for messages than the BROADCAST path used for POSITS. I think the only caution I would still have is just common sense and courtesy: Use a message path appropriate for the QSO. Even if that is across the state, that seems OK by me as long as the channel is not saturated...

Does anyone want to do a STATISTICAL NETWORK ANALYSIS of APRS throughput compared with a connected packet? Recognizing that it is poorer, it sure is convenient to carry on long protracted simple QSO's without being stuck to the keyboard and time-out timers....

So, I have kinda softened my concerns over QSO's...

---

## 51. Re: OMNI DF-ing

From: Malcolm Mallette <mmallette.kdac@ash.palni.edu>  
Date: Sun, 3 Sep 1995 17:44:02 -0500 (EST)  
To: John Garrett <jgarrett@world.std.com>  
Cc: aprssig@tapr.org, fox-list@netcom.com  
Message-ID: <Pine.SOL.3.91.950903173316.17408A-100000@ash>  
Rendered body type: text/plain

I agree that arps can be used instead of the phone to exchange info about stolen transmitters. The thief will probably not know about arps. When it comes to jamming, it just depends on whether or not the jammer, who is presumably a ham, is on arps or has a buddy on arps. However, using arps instead of the phone means just using arps and not sending packet messages that anyone with packet can read or talking about it on the air to get everyone on arps. I suspect in most cases there will be a lot of loose talk on voice frequencies as soon as arps starts in. Again, arps is fine, but it cannot resolve the location into a solution, and must be used so the arps users do not let the cat out of the bag.

If we had better arps maps of Indianapolis, it would be possible to use it at base locations for beam-heading plotting. Most of the df group is not on packet, so we will not be using it except at un-connected stations with beam headings exchanged over the air (stuck transmitter) or on the phone (jammers and stolen transmitters.)

Arps and GPS on a balloon have only once lead to the balloon being found after it burst and came down on a chute. The other launches resulted in considerable df work to find the package as the balloon was still in the air when the transmissions dropped out of sight. The one launch that did not need a df crew to find the package was the result of the location being known because of a GPS packet downlink and a plane being in the air and able to spot the package in a field!

I think that arps will be of help in df situations. Now if I can only get a good indy arps map!!

Too busy on transmitter id project ( if any of the beta testers ever actually build the A/D converter! ) to do a map myself.

Again, with stuck transmitters and jammers, be discrete.

Malcolm WA9BVS

---

## 52. Re: [APRSSIG:3185] Re: Rag Chewing on APRS

From: "Demos Doulou" <ddoulou@tpa.cent.com>  
Date: Sun, 3 Sep 1995 20:02:58 +0000  
To: aprssig@tapr.org  
Message-ID: <199509040003.UAA23214@tpa.cent.com>  
Rendered body type: text/plain

Hello all. I run the WIDE area digi here in Pinellas County Florida. As Paul, KR4YL mentioned in a earlier post, we use APRS here for ragchewing on the VHF side alot. There has not seemed to be a problem with overload by local stations here. The problem I do have is stations not using the correct digi path when engaged in a ragchew. Stations on vhf should only use there local digi and not wide,wide,.... if only ragchewing with other local stations. Stations on hf, if ragchewing with another station on hf, should drop ALL GATES in there unproto path. This has caused the most channel overloading in this area. Please remove your GATE from the unproto path when talking on HF. For your beacons and bulletins gating is great, but not for ragchewing.

Demos  
KR4US

---

### 53. DeLornes CD??

From: n8vwi@w8dc.ampr.org  
Date: Sun, 03 Sep 95 21:32:57 UTC  
To: aprssig@tapr.org  
Message-ID: <44241@w8dc.ampr.org>  
Rendered body type: text/plain

Hi,  
I'm getting ready to register the software, but wanted to know which DeLorne CD's it will work with. I called thereeir sales desk, they couldn't tell me. I hope It it works with the Street Atlas USA, and not the \$400 package.  
Thanks 73 Bill

---

### 54. Re: [APRSSIG:3189] DeLornes CD??

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Sun, 3 Sep 95 21:31:31 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.810178291.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

APRS and MacAPRS do NOT!! work with the DeLorme CDs. They won't release the information to their CDs therefore we cannot use it..

We do however, support the \$32 CDs from the USGS.

Keith Sproul

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services                                                 | 908 445-3695 Work       |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home       |

---

### 55. Re: [APRSSIG:3189] DeLornes CD??

From: Bob Bruninga <bruninga@nadm.navy.mil>  
Date: Sun, 3 Sep 1995 21:47:43 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950903214519.15418A@greatlakes>  
Rendered body type: text/plain

On Sun, 3 Sep 1995 n8vwi@w8dc.ampr.org wrote:

> I'm getting ready to register the software, but wanted to know which DeLorne  
> CD's it will work with. I called thereeir sales desk, they couldn't tell me.  
> I hope It it works with the Street Atlas USA, and not the \$400 package.

CAREFUL. APRS works with Delorem ONLY to the extent that you must let APRS be a front end COMMS system for APRS. But APRS has the ability to send out its serail port a NMEA position report that looks like it came from a GPS. If the Delorem running on another PC will accept GPS input, then it will display SINGLE posits "hooked" on APRS...

---

### 56. Re: [APRSSIG:3187] Re: OMNI DF-ing

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Sun, 3 Sep 95 22:22:50 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.810181370.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

>  
> Aprs and GPS on a balloon have only once lead to the balloon being found  
> after it burst and came down on a chute. The other launches resulted in  
> considerable df work to find the package as the balloon was still in the  
> air when the transmissions dropped out of sight. The one launch that did  
> not need a df crew to find the package was the result of the location  
> being known because of a GPS packet downlink and a plane being in the air  
> and able to spot the package in a field!  
>

The Wisconsin and Peoria IL Balloon groups have used GPS on the balloon and APRS to track it on a NUMBER of occasions. WITH GREAT SUCCESS TOO!

A few other groups that I have heard of use the GPS/APRS combination too.

When working GPS is on board, the DF is usually used as a backup and not primary. It has also resulted in friendly competition, who can find it first, the GPS/APRS trackers or the DF guys.. This really puts some pressure



on the DF guys...

The first balloon launch that I attended, the GPS/APRS was heard until the package was about 1000' above ground, we copied this from a distance of 30mi.

We went to within 3 miles of that last-known position and immediately picked up the signal again, then we followed it right in, only problem was that there was a River between us and the package and we had to go about 10mi one way and 10mi back to get to the other side of the river.. As it turned out, the package had landed within feet of the river.

Also, MacAPRS has a bunch of the features from BallTrack (WB8ELK's Balloon prediction program) built into it to PREDICT where the balloon is going to go BEFORE it is launched.. The accuracy of this is quite good IF the wind data from the FCC is current and entered properly.

Keith Sproul

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services                                                 | 908 445-3695 Work       |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home       |

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## 57. Re: [APRSSIG:3184] APRS HF GATE

From: N9VJQ@aol.com  
Date: Sun, 3 Sep 1995 22:23:38 -0400  
To: aprssig@tapr.org  
Message-ID: <950903222336\_90507706@mail04.mail.aol.com>  
Rendered body type: text/plain

In a message dated 95-09-03 17:00:24 EDT, Bill KE4EER writes:

> I had an old timer tell me that flat out  
> "i'm going to do what i want to do, nobody is going to tell me different.

> The thing i'm saying if we as APRS users don't organize we are  
> going to kill it ourselves either with gates or those people  
> that feel they don't need to coordinate anything including  
> digi sites.

Yep, Bill, I'm finding out that ham radio has got a lot of people that think that way. And I think you see the point I was making.

73's  
Barry n9vjq

---

## 58. MFJ-8621 Data Radio

From: "Jeff Brenton [SDFORUM]" <76703.1065@compuserve.com>  
Date: 03 Sep 95 23:13:11 EDT  
To: <aprssig@tapr.org>  
Message-ID: <950904031310\_76703.1065\_CHN71-2@CompuServe.COM>  
Rendered body type: text/plain

Sending this via my CompuServe account, just for convenience. On the same pass this is posted, I'm E-mailing MFJ about a problem I'm having, tuning the MFJ-8621 to operate on the "standard" APRS frequency of 145.790.

History:

In mid-May, I placed an order for three MFJ-8621 data radios, to be crystallized and tuned at the factory for 145.030 and 145.790. 10 weeks and several phone calls later, a package arrived, one day AFTER I left for a week's vacation.

The package contained TWO of the 8621s I ordered, crystallized for 145.010, and two sets of crystals - one each for 145.030 and 145.790. After I got back from vacation, I tried to set the radios up, following the MFJ tuning procedures.

The short version of the story is, the radio tunes very easily, provided you are crystallizing it for something very close to 145.010; i.e., the 145.030 crystal set works great. Unfortunately, that can't be said for trying to swing it to 145.790!

Transmitter swings fine, although the frequency tolerance of the crystals MFJ supplies is suspect - the 145.790 transmit crystal was over 10kHz off, and the 145.030 crystal was about 5kHz off. Both were within the range of the transmitter's adjustments, however.

Receiver tuning is unlike anything I've used before - after you tune the transmitter for the correct output frequency, you attach a voltmeter to the discriminator test point, then key the transmitter. You then adjust a coil until you get 2.50 vdc on that test point.

Worked fine for the 145.030 crystal set, but, neither radio will approach 2.50 vdc with the 145.790 receive crystal installed, unless the signal is removed; this with the subject tuning coil adjusted through its entire range. Closest it comes is 2.85 vdc, with the tuning slug removed. I am waiting to get ahold of a service monitor to try adjusting things the old fashioned way...

This radio does not come with any schematics, which makes it all the more difficult to decide what I'm fighting here. I have built Hamtronics kits with no problems, but these things have been incredibly frustrating. I \*will\* defeat this problem, but it's been a PITA!

---

## 59. New APRS73a upload

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 3 Sep 1995 23:45:14 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950903234219.155658@greatlakes>  
Rendered body type: text/plain

I just FTP'ed another copy of APRS73a.zip. Hope this one sticks...  
It's the same one as before, but people were reporting that it didn't all make it last time. It shows as 111?,??? K this time although on my DOS machine I think it shows as 109?,??? something...

---

## 60. MScatter one more time

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 4 Sep 1995 00:17:55 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950903235218.15565D-100000@greatlakes>  
Rendered body type: text/plain

I was kinda burned out after the 4 day Persieds APRS event. A total of 19 stations heard a total of 18 stations on 2 meters. All on paths of several hundred miles with most between 600 and 1000 miles. Here are some clean-up after thoughts....

- 1) I assume that we had fun, but that 4 days was too long. No future event on 145.79 should last more than 24 hours... Maybe 2 big 24 hour events twice a year.. Other minor shower events could be acceptable as long as operations were between MIDNIGHT and 0800 local? (the optimum MScatt period anyway) (comments?)
- 2) I don't see any way to use any other frequency than 79 and have any chance for minimum QRM and FLACK from other band users. Is it worth trying to find one? Who can spearhead this effort? What about 144.49 when the Shuttle is NOT IN ORBIT? 144.79 when shuttle IS in orbit?
- 3) Do we wait till December for the next one?
- 4) APRS73a distribution (ARGH! but not the upgrade files... nuts) contain the file MSCATTER.BK so you can see a plot of those stations heard. REMEMBER you can REPLAY a BK file without having to LOAD it by just typing the full file name MSCATTER.BK at the REPLAY prompt. APRS will see the .BK instead of .HST and automatically look in the BAKS directory instead of the HST directory. This lets you look at a BACKUP file without LOADING it...
- 5) One station reported that 73a does NOT transmit MScatt mode on the OPTIONAL schedule other than the 4 defaults.. Anyone else confirm this?
- 6) Who wants to be the RECORDER for future MScatt events. That is, collecting the reports and summarizing the data... (not me...)

---

## 61. Re: [APRSSIG:3186] Rag Chewing on APRS

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>  
Date: Mon, 4 Sep 1995 10:47:14 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: aprssig@tapr.org  
Message-ID: <Pine.3.89.9509041016.A5277-0100000@bcfreenet.seflin.lib.fl.us>  
Rendered body type: text/plain

Gee Bob, nice of you to have asked.

As it turns out, I am in the process of conducting a study of packet

characteristics on various frequencies accessible by my station.  
It doesn't directly address the question of rag-chew vs no rag-chew,  
but does provide some data about channel usage.

I've recorded the packet activity for a 24 hour period at various  
frequencies and tabulated the data by frame types. Here are some  
preliminary results:

| DATE   | PACKETS | RR   | RN | UA  | UI   | I    | C    | D   | DM | RJ  | FRMR | Freq.     |
|--------|---------|------|----|-----|------|------|------|-----|----|-----|------|-----------|
| Aug 22 | 1791    | 758  | 16 | 41  | 3    | 919  | 31   | 14  | 4  | 5   | 0    | 145.07MHz |
| Aug 24 | 2887    | 0    | 0  | 0   | 2885 | 2    | 0    | 0   | 0  | 0   | 0    | 145.79    |
| Aug 25 | 10505   | 6335 | 0  | 153 | 314  | 2126 | 1009 | 386 | 29 | 153 | 0    | 14.095    |
| Aug 29 | 6329    | 1185 | 2  | 100 | 1569 | 2150 | 1211 | 73  | 11 | 28  | 0    | 144.93    |

Frequencies 145.07 and 144.93 are local ROSE sites with pbbs activity.  
145.79 is used exclusively for APRS traffic. 14.095 is the popular  
20 meter pbbs location.

Equipment used is a PK232 TNC. VHF antenna is a Ringo at 15'; HF antenna  
is a ground mounted trapped vertical. Traffic in each case was recorded  
via the loggin channel for approximately 24 hours. The data was then  
processed using an original program written in Pascal. The process yields  
the results by callsign, with totals and percentages. I've abstracted  
only the totals for presentation here.

William Manley KB4XE  
z002594b@bcfreenet.seflin.lib.fl.us

>  
> Does anyone want to do a STATISTICAL NETWORK ANALYSIS of APRS throughput  
> compared with a connected packet? Recognizing that .....

---

## 62. Re: [APRSSIG:3196] MScatter one more time

From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Date: Mon, 4 Sep 95 11:53:49 EDT  
To: aprssig@tapr.org  
Message-ID: <9509041553.AA12989@abaco>  
Rendered body type: text/plain

would be happy to be that recorder, or assist in any way possible. as long  
as it doesnt confilct with work!. i am really interested in this mode of  
ops and will join in as much as possible. have already gathered a list of  
other stations that are interested, an am trying to get info on psk modems.

will keep in touch.

tk5/73's....david

---

## 63. cable connections (again)

From: quarry@q.continuum.net (Chip Griffin)  
Date: Mon, 4 Sep 1995 12:37:41 -0400  
To: aprssig@tapr.org  
Message-ID: <v01520d01ac70da51eeab@[199.0.52.58]>  
Rendered body type: text/plain

I hate to take up bandwidth for this because it has been said before. I  
can't, however, find where I had saved the information.

Can someone EMAIL me the configuration for wiring the GPS-40 to a DB-9? I  
have the pinouts of the GPS plug as: brown-data out, white-data in,  
black-ground. I have a DB-9 listed as: pin2-receive data, pin3-transmit  
data, pin5-ground. So does the brown go to 2 or 3. I can argue it either  
way. Do any of the other pins need to be connected? I will likely try  
some stuff in the meantime, but I would like some confirmation.

I also would like to know if anyone has successfully provided external  
power to their GPS-40. If so, how did you do it? The plug I have has four  
pins but only three wires coming out. Is the remaining wire the one I  
needed?

Chip Griffin - President of Thames River Apple Users Group  
System Operator of The Quarry (203-889-6427)

-----+-----  
quarry@q.continuum.net | N1MIE@nlokk.ct (packet)  
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)  
emmet2@aol.com |

## 64. MAPFIX Question

From: rkramer@vaxxine.com (Ronald Kramer)  
Date: Mon, 4 Sep 1995 12:54:08 -0400  
To: aprssig@tapr.org  
Message-ID: <9509041654.AA17534@alpha.vaxxine.com>  
Rendered body type: text/plain

Is it possible or can the program be made to tag a trace and move that whole trace from one location to another the same as you do individual points on a trace. Shuch as the border of a lake is a full trace and it is say 10 miles too far north and east of where it should be once the map is drawn. Just tag any point in it and move that point to the new location and the whole lake moves. Move the one point and add or subtract the movement from the rest of the points in that trace.

Thank in advance

Regards, Ron ... 73 de Ron  
Internet: rkramer@vaxxine.com (Ron Kramer)  
Packet: ve3mx#ve3snp#niag.on.can (Sysop of VE3SNP/VE3RNP - BBS/NODE)

---

## 65. HSP Timeout Problems

From: Michael Walker <mwalker@gold.interlog.com>  
Date: Mon, 4 Sep 1995 18:19:25 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <199509042219.SAA13157@gold.interlog.com>  
Rendered body type: text/plain

I have been having a problem with v7.2c, PK88 (on 30m HF Mobile), AEA HSP cable, and a new NEC Versa 50 laptop. At some random time and event (and I have tried over the last 15 hours to nail it down), the port will time out when it goes to retrieve data from the Garmin 45. The PK88 will receive commands, but it doesn't appear to send any back to the computer, and I do not receive any GPS data.

If I do a O C T to talk to the TNC, I get no response. I get 1 cmd: prompt and then it refuses to listen or respond.

>From then on, the com port is not usable until I enter a modem program like Telix or Windows Terminal, hit enter once then exit. APRS will now load and run fine until the next hang.

I haven't confirmed it, but I think the problem is with the laptop. The question is, has anyone else had inconsistant problems with the serial port?

Replies greatly appreciated.

(If anyone was wondering why I kept disappearing while 30m mobile in Northern Ontario, you now know the reason)

Many thanks in advance...

Mike VA3MW  
mwalker@interlog.com

---

## 66. F7 hi res problem?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 4 Sep 1995 20:27:48 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950904201957.17924A-100000@greatlakes>  
Rendered body type: text/plain

My laptop will crash if I select F7 HI RES mode with version 73a. I noticed that it only occurs while in SPM mode. (I think) But SPM has nothing to do with display changes... So is anyone else out there having F7 HIREs problems? If so, what exact config of APRS are you set up for... Other than that, no significant problems found with 73a. Trivial on the fix list are as follows:  
\* I gotta change the F-C comment on the 1st map for new users to M-C  
\* I want to make Altitude scale selectible in 3D mode  
\* Fix the spelling of my name on the REGISTER.DOC!  
Maybe its time for me to make another stab at the mouse...

---

## 67. Re: OMNI DF-ing

From: jgarrett@world.std.com (John Garrett)  
Date: Sun, 03 Sep 1995 21:52:03 -0400  
To: mmallette.kdac@ash.palni.edu  
Cc: aprssig@tapr.org, fox-list@netcom.com

Message-ID: <3lbImmPA4w7V065yn@World.std.com>  
Rendered body type: text/plain

[good, but previously-seen-here-stuff deleted]

> I suspect in most cases there will be a lot of loose talk on voice  
> frequencies as soon as aprs starts in. Again, aprs is fine, but it cannot  
Not necessarily. The aprs guys around here are pretty stealthy, and as  
soon as a problem occurs, maybe a phone call or two goes out, but nobody  
running aprs ever gets on a voice repeater to talk about it. They're  
busy plotting the solution.

> resolve the location into a solution, and must be used so the aprs users  
> do not let the cat out of the bag.

If you mean solution as in "resolution to the problem", true. That's  
always the \_next\_ step. I thought it was Marion County which had made  
hams "special deputies" or some such title. Since some of the repeater  
users were used for special police business [S&R, disaster relief, etc]  
then anybody jamming the repeater was interfering with equipment that  
the deputies used for their special police business, and locally its a  
crime to interfere with police business. Presto, send out the Sheriff  
and forget the feds!

>  
> If we had better aprs maps of Indianapolis, it would be possible to use it  
> at base locations for beam-heading plotting. Most of the df group is not  
> on packet, so we will not be using it except at un-connected stations with  
> beam headings exchanged over the air (stuck transmitter ) or on the phone  
> ( jammers and stolen transmitters. )

Hmm. Maps apparently aren't all that hard to make, maybe I can talk a  
local mapmaker into whipping one out for you to start on. I don't have  
a plotter or a CD-rom, so I can't say if they're easy or not! I do have  
some gps data for Ft. Wayne, however, if you know anyone up there that  
could use it.

> Too busy on transmitter id project ( if any of the beta testers ever  
> actually build the A\D converter! ) to do a map myself.  
Gee, that sounds familiar! :-)

>  
> Again, with stuck transmitters and jammers, be discrete.

ALWAYS good advice!

>  
> Malcolm WA9BVS  
>  
>

John  
WN9T

---

## 68. Re: [APRSSIG:3184] APRS HF GATE

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>  
Date: Mon, 4 Sep 1995 22:51:12 -0400  
To: aprssig@tapr.org  
Message-ID: <199509050251.WAA10705@dylan.mindspring.com>  
Rendered body type: text/plain

At 03:56 PM 9/3/95 -0500, you wrote:  
>Well it looks like we are discussing HF Gates again hi hi.

<snip>

> I think Barry N9VJQ may think APRS  
>cannot or should not be used for keyboarding, well if it's kept locally and  
>don't do as some that use WIDE,WIDE,WIDE like W7LUS in GA then that  
>is not a big problem at all. We have done this many times by just going trough  
>our digi and nowhere else,

Bill- Bob APR and LUS know each other, maybe Bob can give LUS some  
pointers on how to keyboard with other HF users on APRS without propogating  
a one sided conversation thru the whole VHF network, too. I do notice the

problem, you speak of. Not having a KAM, I don't know whether LUS can shut off the output on VHF when he's just concerned with the HF QSO. Maybe Bob can intervene.???

I don't mind telling you that i'm to a point where  
>i'm going to exercise my right's as having the only coordinated digi site in  
>the southern states it looks like to use it for other things then strcitley  
APRS.

Whoa- there. Alabama is in its own world when it comes to coordination of anything. Especially repeaters. The coordinating body for the SouthEast except for AL and FL is SERA. They do not, however, coordinate packet. They do recognize and support a packet coordinator. In GA, that is WA4MEI, Randy Jarrett. If you are going by the ARRL directory, you'll see that SERA sent no packet info to the League. SERA and the packet folks are working together now (joint attendance at the last 1 or 2 board meetings). As I understand it, very soon the SERA journal and the ARRL directory will have the packet listings as well.

If you have questions concerning COORDINATED packet in the rest of the states near you, please contact Randy before making unfounded statements. There are quite a few others than yours.

Randy can be reached at : wa4mei@radio.org

>My coordination papers say Packet activity this of course includes  
>keyboarding Barry!. I have seen activity go down from seeing 30 or more  
>users to 3 or 4 lately.

I still see the same # of users. Maybe even more.

We had good intentions to build APRS in this area for  
>community service (Specially weather)

I REALLY appreciate the hurricane updates from Kevin in FL coming out on HF. Just as I appreciate the severe thunderstorm and tornado info from Northern Alabama!

but this is being ruined by Gates and  
>users throwing up uncoordinated digi's just wherever they feel like throwing  
>up one.

Where? and uncoordinated in WHOSE book?

So the result may be just a great keyboarding digi for North Alabama.  
>I hate to be a party pooper but don't want to let this coordinated digi site go  
>by the wayside, i worked to hard to get it in the first place. The thing i'm  
>saying if we as APRS users don't organize we are going to kill it ourselves  
>either with gates or those people that feel they don't need to coordinate  
>anything including digi sites. I had an old timer tell me that flat out  
>"i'm going to do what i want to do, nobody is going to tell me different. Well  
>with that i will get off of this horse again and i'm sure i will be receiving a  
>lot of flack for this posting but fellows i can take it, I have been trough  
>enough in my lifetime that you don't have to feel bad at all to throw it at me  
>good or bad hi.. I know i will get lot's of it from Georgia

This is an attack on Ga, then?

"Hi fellows\*.

Hi

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info

ATV and GPS Balloon Flight coming upagain soon from Atlanta, GA



>Equipment used is a PK232 TNC. VHF antenna is a Ringo at 15'; HF antenna  
>is a ground mounted trapped vertical. Traffic in each case was recorded  
>via the loggin channel for approximately 24 hours. The data was then  
>processed using an original program written in Pascal. The process yields  
>the results by callsign, with totals and percentages. I've abstracted  
>only the totals for presentation here.  
>

---

## 72. Re: [APRSSIG:3202] F7 hi res porblem?

From: W2HOB@aol.com  
Date: Tue, 5 Sep 1995 00:00:59 -0400  
To: aprssig@tapr.org  
Message-ID: <950905000057\_91290997@mail02.mail.aol.com>  
Rendered body type: text/plain

No problem with Hi-Res here Bob... The HOB-14 is the Ultimeter-II station on a 286 with EGA color. My other station is just HOB and not on often except for testing and that's a 486-DX2/66 with SVGA and it works ok too. This is both with 7.3a. THanks.

73 de Boyd AR

---

## 73. Millibars et al

From: jeff.brenton@espi.com  
Date: Mon, 04 Sep 95 23:21:32 -0500  
To: aprssig@tapr.org  
Message-ID: <9509042321.0WTCJ0B@espi.com>  
Rendered body type: text/plain

OK, folks, I decided to do some research on the aviation reports of sea-level pressure, as it relates to what we've been discussing as possible standards for APRS. Here's the text from the Airman's Information Manual on the subject:

Pressure Recorded in "Millibars."

The mercury barometer reading at the individual weather stations is converted to the equivalent sea level pressure and then translated from terms of inches of mercury to a measure of pressure called millibars. One inch of mercury is equivalent to approximately 34 millibars; hence, the normal atmospheric pressure at sea level (29.92), expressed in millibars, is 1,013.2 or roughly 1,000 millibars. The usual pressure readings range from 950.0 to 1,040.0. For economy of space, the entry is shortened on some reports by omitting the initial 9 or 10 and the decimal point. On the hourly weather report, a number beginning with 5 or higher presupposes an initial "9," whereas a number beginning with a 4 or lower presupposes an initial "10." For example: 653 = 965.3; 346 = 1034.6; 999 = 999.9; 001 = 1000.1; etc. If the fourth element in the aviation weather report is sea level pressure coded 132, this is decoded 1013.2 millibars.

Individually these pressure readings are of no particular value to the pilot; but when pressures at different stations are compared or when pressures at the same station show changes in successive readings, it is possible to determine many symptoms indicating the trend of weather conditions. In general, a marked fall indicates the approach of bad weather and a marked rise indicates a clearing of the weather.

[and, later:]

SEA LEVEL PRESSURE: Sea level pressure reported in millibars follows the visibility or weather and obstruction to vision in the Surface Aviation Weather Report. It is transmitted in three digits to the nearest tenth millibar, with the decimal point omitted. Sea level pressure normally is greater than 960.0 millibars and less than 1050.0 millibars. The first 9 or 10 is omitted. To decode, prefix a 9 or 10, whichever brings it closer to 1000.0 millibars. The following are a few sea level pressures that are decoded:

| AS REPORTED | DECODED          |
|-------------|------------------|
| 980         | 998.0 millibars  |
| 191         | 1019.1 millibars |
| 752         | 975.2 millibars  |
| 456         | 1045.6 millibars |

So, using /B132 is 1013.2 mb (standard pressure), equivalent to 29.92



If millibars is to be the standard, I'll modify my Heathscript to convert the inches currently being used to millibars, and start broadcasting that. Are we going to go with 3 digits, as is found in aviation reports, so we can use existing aviation "SA" reports to supplement measurements made by APRS stations, or 4, so that we can cover a wider range than normally used by aviation?

## 74. BBBeeps

APRS BEEPS-OFF was intended to remove all BEEPS that were not initiated by the user. (So he could sleep by his PC and not be awakened... hi hi) It does not suppress BEEPS in response to user inputs, which alert the user to his actions. In your case, the beeps are telling you that your outgoing message buffer is FULL and that APRS is ERASEing the first message in the buffer (WHETHER IT HAS BEEN ACKED OR NOT) to make room for your continued input. If you have several outstanding messages to others, you may NOT want them automatically erased... Therefore the beeps...

## Page 1081

>

I have modified and combined a BUNCH of stuff for the balloon tracking, and although I use his basic Idea, I do NOT use any of the code (its in BASIC).

I would, however, be interested in getting a copy of your modified stuff.. BTW, I am doing this with WB8ELKs knowledge and permission.. But as I said before, I am NOT using his code directly, or as far as that goes, even indirectly... I also am getting some parachute data from the military, however, the guy that promised it to me has yet to deliver..

The WIND data is from the FAA, not the FCC.. And a pilot just called up some number and got it... It actually is on the Internet, but in an almost unuseable form... There are some graphs showing this stuff, but I can't find the actual raw data..

Keith

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services                                                 | 908 445-3695 Work       |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home       |

---

## 76. Re: [APRSSIG:3207] Re: Rag Chewing on APRS

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Tue, 5 Sep 95 8:19:21 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.810303561.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

> Unless you have seen it, you may be interested in a program in the TAPR  
> archives. It is called MONAX or something like that. It does these types  
> of analyses. When I tried it it seemed pretty thorough. Haven't tried it  
> on 145.79 Tho.

> At 10:01 AM 9/4/95 -0500, you wrote:  
> >Equipment used is a PK232 TNC. VHF antenna is a Ringo at 15'; HF antenna  
> >is a ground mounted trapped vertical. Traffic in each case was recorded  
> >via the loggin channel for approximately 24 hours. The data was then  
> >processed using an original program written in Pascal. The process yields  
> >the results by callsign, with totals and percentages. I've abstracted  
> >only the totals for presentation here.

There is another program up on TAPR called PacketTracker that does a lot of 'network' analysis for ANY type of packet data, it shows percent utilization, packets/hour, and other stats..

Its also shows a logical map of which station (and type of station) is talking to who, showing lines between stations indicating where the packets are going. It shows dotted lines when the re-trys get above 10%, and a lot of other neat info..

This program was presented in a paper at the Tampa DCC two years ago. It was written by my brother, Mark Sproul, KB2ICI, and of course, it runs on the Macintosh.. If you are interested in seeing what is going on, it is WELL worth the effort to get the program and go visit somebody that has a Mac and a Packet station...

Keith Sproul

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services                                                 | 908 445-3695 Work       |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home       |

---

## 77. Re: [APRSSIG:3200] MAPFIX Question

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 5 Sep 1995 09:41:31 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950905093818.23049C-100000@greatlakes>  
Rendered body type: text/plain

On Mon, 4 Sep 1995, Ronald Kramer wrote:  
> Is it possible or can the program be made to tag a FEATURE and move that

> whole FEATURE from one location to another the same as you do individual  
> points?

NO. SOMETIMES WHEN THE WHOLE MAP IS OFFSET, I COMPUTE THE OFFSET NEEDED  
IN BOTH THE X AND Y DIRECTIONS, AND THEN WRITE A PROGRAM TO ADD THOSE  
OFFSETS TO EVERY POINT IN THE FILE. YOU CAN SEE THE RAW POINT VALUES AT  
THE BOTTOM FEW LINES OF THE SCREEN IN MAPFIX.

YOU COULD OBSERVE THE OLD AND NEW VALUES FOR A POINT, AND THEN USE A TEXT  
EDITOR TO ADD THESE OFFSETS TO ALL POINTS IN THAT FEATURE...

---

## 78. APRS Software

From: Dan Tassell <kc5pcb@ICSI.Net>  
Date: Tue, 5 Sep 1995 08:54:21 -0500 (CDT)  
To: Bob Brininga <aprssig@tapr.org>  
Message-ID: <Pine.SOL.3.91.950905084739.3631A-100000@degas>  
Rendered body type: text/plain

Hi Bob!

Just wanted to drop you a line to say how much I like your APRS software.  
I have one question about the registration cost. Does the \$24.00 cover  
the cost of the registration and the latest version on a disk or do I  
have to kick in an extra \$9.00 for that disk. Please let me know so I can  
decide on which I would like to do. Thanks for your help and 73's.

Dan Tassell

---

## 79. Re: [APRSSIG:3211] Re: OMNI DF-ing

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Tue, 5 Sep 1995 09:03:53 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199509051403.JAA20130@solar.cs.tamu.edu>  
Rendered body type: text/plain

Keith Sproul sez:

>

> The WIND data is from the FAA, not the FCC.. And a pilot just called up some  
> number and got it... It actually is on the Internet, but in an almost  
> unuseable form... There are some graphs showing this stuff, but I can't find  
> the actual raw data..

There is always the option of grabbing a DUAT briefing and decoding the winds  
aloft from that... Talk to your pilot about that for an idea.

73, gerry

--

Gerry Creager N5JXS                               \* SAREX Co-Investigator  
gerry@cs.tamu.edu                               \* A little radio that lets kids talk  
                                                  \* to astronauts, and smile

\*\*\*\*\*

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## 80. APRS

From: jkronz@pts.mot.com (Jason Kronz)  
Date: Tue, 5 Sep 1995 10:16:44 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <9509051416.AA04594@sun538.mot.com>  
Rendered body type: text/plain

Bob,

Did you write APRS? If so where did you find out about  
info on the NEMA standard that most gps's use to communicate??

I've wanted to add a gps to my df setup for some time now but this  
has always been a limiting factor for me.

thanks,  
-jason

---

## 81. Re: [APRSSIG:3201] HSP Timeout Problems

From: dwetzel@acs.uswest.com  
Date: Tue, 5 Sep 1995 08:57:21 -0500  
To: aprssig@tapr.org  
Message-ID: <04c503a0@acmspgw1.mnet.uswest.com>  
Rendered body type: text/plain

I have been having a problem with v7.2c, PK88 (on 30m HF Mobile), AEA HSP  
cable, and a new NEC Versa 50 laptop. At some random time and event (and  
I have tried over the last 15 hours to nail it down), the port will time

out when it goes to retrieve data from the Garmin 45. The PK88 will receive commands, but it doesn't appear to send any back to the computer, and I do not receive any GPS data.

If I do a O C T to talk to the TNC, I get no response. I get 1 cmd: prompt and then it refuses to listen or respond.

>From then on, the com port is not usable until I enter a modem program like Telix or Windows Terminal, hit enter once then exit. APRS will now load and run fine until the next hang.

I haven't confirmed it, but I think the problem is with the laptop. The question is, has anyone else had inconsistant problems with the serial port?

Replies greatly appreciated.

(If anyone was wondering why I kept disappearing while 30m mobile in Northern Ontario, you now know the reason)

Many thanks in advance...

Mike VA3MW  
mwalker@interlog.com

Although I don't have GPS up, I have the same kind of problem with vhf, a PK232, with a 486 clone desktop machine. I usually run APRS full screen under windows and wondered if that might be causing the problem, but I haven't really done a lot of research as to other possible contributing factors.

73,  
Doug  
KC7CO

---

## 82. Configurations

From: dwetzel@acs.uswest.com  
Date: Tue, 5 Sep 1995 10:52:03 -0500  
To: aprssig@tapr.org  
Message-ID: <04c6b760@acmspgw1.mnet.uswest.com>  
Rendered body type: text/plain

Hello all -

I'm going to be doing APRS demos and presentations at the local clubs and AREC organizations this fall. I'm soliciting info from the sig regarding successful GPS/tnc integrations, and will compile them into a document available locally and, of course, back to the sig. If you wouldn't mind, I'd like to know the following, if known:

TNC Make and Model:

TNC Firmware Rev:

GPS Receiver Make and Model:

GPS Receiver Firmware Rev:

Interface Converter/Switch Make and Model:

Cable Pinout (sample below)

| TNC |         | GPS |
|-----|---------|-----|
| 2   | ----->  | 3   |
| 3   | <-----  | 2   |
| 7   | <-----> | 7   |

TNC Cable Connector Type:

GPS Receiver Cable Connector Type:

Comments:

Thanks for your help!

Doug Wetzel  
KC7CO  
dwetzel@acs.uswest.com

### 83. Re: [APRSSIG:3196] MScatter one more time

From: mahoner@wpdis01.wpafb.af.mil (Maj Robert G. Mahoney)  
Date: Tue, 5 Sep 95 14:19:30 -0400  
To: aprssig@tapr.org  
Message-ID: <9509051819.AA07597@wpdis01.wpafb.af.mil>  
Rendered body type: text/plain

Greetings to the SIG,

I have recently moved to Dayton OH from the cradle of APRS, Annapolis MD, and I'm 90% settled in to my spacious government quarters, hi hi. I know it may seem a bit early and I don't have many contacts yet; however, I am a volunteer to do what I can to prepare for any APRS events the group may want to consider for next springs Dayton Hamvention. I will be happy to work forward logistics or assist if necessary with an existing POC. Like most of you my first responsibility is to work and family and I travel occasionally but I am available to assist with such a worthwhile project. Please do not contact me for hotel/motel accommodations and the extra beds in my house are spoken for by hams from Maryland, Michigan, and Idaho. I realize these limitations rule out 95% of what some of you had planned to ask for, but I'm here if you need me.

My number is listed, but I'd prefer we correspond via e-mail.

de WB8CXN

---

### 84. HELP again...

From: KD4EMI@aol.com  
Date: Tue, 5 Sep 1995 22:50:57 -0400  
To: aprssig@tapr.org  
Message-ID: <950905224955\_92054274@mail06.mail.aol.com>  
Rendered body type: text/plain

I am not too hip on the AEA 232.  
Went to a buddy and told him all about APRS. Tried to run it on VHF on his AEA and zip...nothing...

It kept saying " >NO disconnected "  
and wouldnt monitor stuff..  
HAD mon set to 1 thru 6

Also, MCON kept switching from 1 to 0 ??

What do I do ?

Again, Im pretty handy with MFJ and KPC but never had an AEA.

One other note...Seeing alot of comments on the HF ragchewing that comes through the VHF nets. Would really have to agree with most of the comments directed to ...WATCH your DIGI PATH !!! When I qso, I set the minimum digi path...HF operators should do the same ? Right ?

73 to all...hope the hurricane dont hit us !  
Mike KD4EMI@AOL.COM

---

### 85. APRS Documentation

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Wed, 6 Sep 95 9:02:09 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.810392529.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

All of the PC APRS documentation files are now up on my WWW site. This will be updated every time Bob puts up a new version. If you have access to WWW, this is a very easy way to access the doc files.

I will be adding documentation for the Macintosh version and also a lot of pointers to other related information to this WWW site.

The URL is <http://www-ns.rutgers.edu/~ksproul/APRSDOC/APRSDOC.html>

Keith Sproul

Keith Sproul  
Student Housing Network Coordinator

Ham Radio: WU2Z  
ksproul@noc.rutgers.edu

## 86. DR - WARNING!

From: paul@paccomm.com  
Date: Wed, 06 Sep 95 09:40:52 UTC  
To: aprssig@tapr.org  
Message-ID: <5213@paccomm.com>  
Rendered body type: text/plain

Found an interesting bug in APRS that needs an urgent fix.  
When I used an earlier version a few weeks ago to track Erin,  
I very successfully predicted the position and time where it  
was (probably) going to be - I was within 25 miles after a prediction  
that was made 24 hours before! (a testament to the stability of  
the track of the storm too .....)

What I did was take the SOG and COG, enter the object into APRS  
and then put the real time clock forward on the PC. Then restart  
APRS and look at where it said the TS would be at the "new"  
time.

I just tried this with v7.2 with Luis and found that the total  
track over the ground is wildly wrong! With 9 mph set as the  
SOG, after 10 days it still has only covered about 300miles!

If you watch it in real time all seems OK, it's when you come  
back and reload the file much later that you find wild errors.

i.e. the longer the time span the worse the slowing down of the  
storm is.....

This needs two fixes: get the DR working right again as it  
must be true for ALL objects.

An ability to run time forwards & backwards in a "what if"  
scenario.

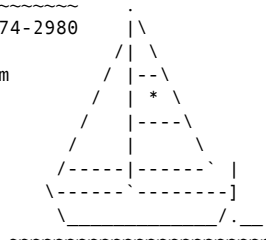
As I said, you're at the mercy of the storm in it's COG, but  
this years storms seem to have hit a track and stuck to it  
when coming over Florida.

Another interesting observation. A friend of mine has kept  
storm tracks on a piece of paper for years. When I  
saw this I remarked to her that the curves followed some  
pretty re-producible tracks (with some obvious exceptions, of  
course). This was more a feature of the projection used, on a  
"normal" map/chart the curves were not obvious.

Worth pursuing? Maybe. With some "bending" algorithms (like  
was was done for the 3D mode) maybe APRS maps could work in  
different projections and give us some more potential for  
working with our friends at the NHC .... :-)

Gunna be interested in the new WX features when 73a is OK on  
the tapr server....

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980
Fax:+1 (813) 872-8696
Not an official authoritative spokesman for PacComm
Don't surf the net, SAIL it!
Captain of S/V "Spindrift", Dunedin, FL.
Catalina 36: Tall rig (58'), Winged Keel (4' 2"),
Full batten main, Boston Whaler dinghy.
PacComm Packet Radio Systems
4413 N. Hesperides St., Tampa, FL 33614-7618
~~~~~



## 87. Lost Mail

From: W2H0B@aol.com  
Date: Wed, 6 Sep 1995 10:15:25 -0400  
To: aprssig@tapr.org  
Message-ID: <950906101514\_12244162@mail02.mail.aol.com>  
Rendered body type: text/plain

I've been getting all my messages returned to me... reason unknown. The from  
line was  
POSTMASTER@redriver.ksc.nasa.gov and I sent it a message asking why and IT

was returned!

The same day, I received a message from TAPR asking if I wanted to stay current on the SIG.  
So, If this message makes it to the SIG, please let me know if any of you are still waiting for replies from me that never made it. Thanks and sorry for whatever delay is occurring.

73 de Boyd  
W2H0B@aol.com

---

## 88. Re: [APRSSIG:3223] Lost Mail

From: n4uls@ix.netcom.com (Jack Anderson )  
Date: Wed, 6 Sep 1995 08:03:58 -0700  
To: aprssig@tapr.org  
Message-ID: <199509061503.IAA07183@ix4.ix.netcom.com>  
Rendered body type: text/plain

You wrote:

>

>

>I've been getting all my messages returned to me... reason unknown. The from  
>line was  
>POSTMASTER@redriver.ksc.nasa.gov and I sent it a message asking why and IT  
>was returned!

Your messages are making it to the SIG just fine. I'm getting the POSTMASTER messages too. One of the SIG users used to be at that system, and apparently is no longer there. The destination system is bouncing all mail for that user, including messages from the listserver. Our host or administrator needs to delete the bogus address from the SIG mailing list.

The verification messages from TAPR are routine and not related to the POSTMASTER problem.

73,

Jack

---

## 89. APRS regs

From: dmobley@encore.com (Dennis Mobley)  
Date: Wed, 6 Sep 1995 12:49:11 EDT  
To: aprssig@tapr.org  
Cc: dmobley@encore.com  
Message-ID: <8298.9509061649@maxis.encore.com>  
Rendered body type: text/plain

Bob, I sent my check to register the PC version of APRS a while back. I was wondering if you got it and returned my validation number.

I have not received my validation number as of this time.  
Thanks you & 73  
Dennis Mobley KE40JB  
Sunrise, FL

---

## 90. Re: [APRSSIG:3224] Re: Lost Mail

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>  
Date: Wed, 6 Sep 1995 13:26:08 -0400  
To: aprssig@tapr.org  
Message-ID: <199509061726.NAA26704@dylan.mindspring.com>  
Rendered body type: text/plain

jack wrote:

>Your messages are making it to the SIG just fine. I'm getting the POSTMASTER  
>messages too. One of the SIG users used to be at that system, and  
apparently is  
>no longer there. The destination system is bouncing all mail for that user,  
>including messages from the listserver. Our host or administrator needs to  
>delete the bogus address from the SIG mailing list.  
>

It is amazing that some folks with bad servers/providers get dropped from the sig all the time, but this stupid redriver nonsense has been going on for weeks and the listserv still hasn't dropped that name. Maybe because redriver is sending its bounced messages back to the aprssig rather than to the listserv itself?

Will someone PLEASE ask the admin of the TAPR listserv to purge this guy's address?

Asking the HOST will not work, I already tried asking Mr Sproul, but he informed me that he was merely the Host of the group and had nothing to do with the list. Someone MUST know the way to reach the person in charge of the list.

---

## 91. Re: [APRSSIG:3226] Re: Lost Mail

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Wed, 6 Sep 95 13:34:48 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.810408888.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

I will be taking over some of the management of the list soon.. Info on how to do this is on its way to me...

So, maybe I will be able to get rid of some of the problems..

Keith

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services                                                 | 908 445-3695 Work       |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home       |

---

## 92. Registration

From: GBohner@aol.com  
Date: Wed, 6 Sep 1995 13:53:18 -0400  
To: aprssig@tapr.org  
Message-ID: <950906135316\_12389065@mail06.mail.aol.com>  
Rendered body type: text/plain

Attention: Bob Brininga

I have mailed you the \$33 registration, including \$9 for GPS registration. Please email what I need to to enable HSP mode and GPS.

I am leaving in two weeks for my boat in Trinidad and I am taking all this stuff with me to see if I can get it working for the trip home to Florida from Trinidad.

Thanks!

Guy Bohner  
W6LJL  
email: GBohner@aol.com

---

## 93. Messages to Bob, WB4APR

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Wed, 6 Sep 95 14:31:36 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.810412296.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

Bob Bruinga's e-mail address is [bruninga@greatlakes.nadn.navy.mil](mailto:bruninga@greatlakes.nadn.navy.mil)

If you have messages or questions about your registration number or other semi-private messages, PLEASE send them directly to him at the above address.

Same goes if you have this type of questions comments for me regarding the Macintosh version of APRS.

But please do NOT send them to the entire list. We are having several people drop off of this list because it simply gets too many messages in a day.

Lets try not to clutter the sig with messages that really should be sent to an individual.

Keith Sproul

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z         |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services                                                 | 908 445-3695 Work       |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home       |

---

## 94. Re: [APRSSIG:3222] DR - WARNING!



From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 6 Sep 1995 14:42:37 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950906143901.12589B-100000@greatlakes>  
Rendered body type: text/plain

On Wed, 6 Sep 1995 paul@paccomm.com wrote:

>  
> Found an interesting bug in APRS that needs an urgent fix.  
> When I used an earlier version a few weeks ago to track Erin,  
> I very successfully predicted the position and time where it  
> was (probably) going to be...  
>  
> I just tried this with v7.2 with Luis and found that the total  
> track over the ground is wildly wrong! With 9 mph set as the  
> SOG, after 10 days it still has only covered about 300miles!

APR REPLY: APRS only DR's for up to 24 hours. Beyond that, it truncates the time delta to 24hours. Thats why it worked for a one day DR, but not for a several day DR. I thought about putting FUTURE-TIME DR capability, but figured that that should be left to the hurricane plotting programs which have built in the probable paths and usual forces on the track...

---

## 95. Re: [APRSSIG:3223] Lost Mail

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 6 Sep 1995 14:23:24 -0500 (CDT)  
To: aprssig@tapr.org  
Cc: W2HOB@aol.com  
Message-ID: <199509061923.OAA16234@solar.cs.tamu.edu>  
Rendered body type: text/plain

W2HOB@aol.com sez:

>  
>  
> I've been getting all my messages returned to me... reason unknown. The from  
> line was  
> POSTMASTER@redriver.ksc.nasa.gov and I sent it a message asking why and IT  
> was returned!

This is a function of a bad address or lost user at Kennedy Space Center. It's not getting lost! Not to worry, eventually we'll track down the offending parties and get that one fixed.

> The same day, I received a message from TAPR asking if I wanted to stay  
> current on the SIG.

That's a periodic check to EVERYONE to make sure someone who doesn't know how to unsubscribe (more folks than you'd think) can get off gracefully, and to ferret out bad E-mail addresses... Like the one at KSC. It's a ListServ service to you to periodically check and see what you'd like to do.

> So, If this message makes it to the SIG, please let me know if any of you are  
> still waiting for  
> replies from me that never made it. Thanks and sorry for whatever delay is  
> occurring.

Your mail was not (apparently) going into a hole. Or, if it was, it was a failure at AOL... something that has occurred with some regularity in the past

73, Gerry

--

Gerry Creager N5JXS                   \* SAREX Co-Investigator  
gerry@cs.tamu.edu                   \* A little radio that lets kids talk  
                                     \* to astronauts, and smile

\*\*\*\*\*

---

## 96. Thanks For Info

From: W2HOB@aol.com  
Date: Wed, 6 Sep 1995 18:30:02 -0400  
To: aprssig@tapr.org  
Message-ID: <950906182812\_12599460@mail06.mail.aol.com>  
Rendered body type: text/plain

Instead of individual replies... and there were many... let me thank all of you with a SIG-oriented message. Now I see what was happening, and still is, but now I can rest easy know the mail is still etting through.

Thank you all again. 73 de Boyd AR

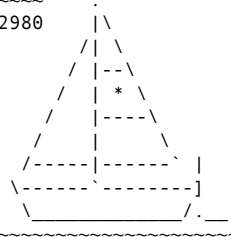
## 97. ftp sites fer Wx .....

From: paul@paccomm.com  
Date: Thu, 07 Sep 95 12:03:54 UTC  
To: aprssig@tapr.org  
Message-ID: <5290@paccomm.com>  
Rendered body type: text/plain

Anybody got a list of ftp sites for wx related stuff?

In particular, hurricane tracking and prediction (?).  
Also, Web sites fer future reference.....

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980
Fax:+1 (813) 872-8696
Not an official authoritative spokesman for PacComm
Don't surf the net, SAIL it!
Captain of S/V "Spindrift", Dunedin, FL.
Catalina 36: Tall rig (58'), Winged Keel (4' 2"),
Full batten main, Boston Whaler dinghy.
PacComm Packet Radio Systems
4413 N. Hesperides St., Tampa, FL 33614-7618
~~~~~



## 98. Where to download new version?

From: GBohner@aol.com  
Date: Thu, 7 Sep 1995 12:50:12 -0400  
To: aprssig@tapr.org  
Message-ID: <950907125012\_93485493@mail02.mail.aol.com>  
Rendered body type: text/plain

>From where do I download the new version of APRS?  
I have been unable to get into the APRS or Software Library WWW pages of TAPR for two days. Is it unavailable or am I having some other problems? I am assuming the new version is available there. Is it available somewhere else?  
Thanks  
GBohner @aol.com

## 99. Lesson learned, GPS, KPC-3 and HSP mode

From: wjh@ideas.com (William J. Howard)  
Date: Thu, 7 Sep 95 12:55:36 EDT  
To: aprssig@tapr.org  
Message-ID: <9509071655.AA13110@ideas.com>  
Rendered body type: text/plain

The Garmin GPS-50 and the KPC-3 worked swell in the car, but I missed the laptop display. Put the laptop in the car along with a Hardware Single Port (HSP) cable, switched the KPC-3 from GPS mode to terminal mode, and that worked swell also. But I noticed a few extra packets going out. The KPC-3 was still sending some of the packets from the GPS mode along with the data from the HSP mode. The lesson learned is to set all the KPC-3 BLT commands (1-4) to EVERY 00:00:00 when using the HSP mode. There problem solved.

Now the thought occurs, wouldn't it be nice to have multiple POS/RATE and UNPROTO commands available in APRS.

Here is the scenario. A VHF APRS mobile, to provide a good track, beacons at least every minute or two. If a few VHF mobiles beacon that often and include GATE in their UNPROTO path, the HF links would be overwhelmed very quickly. if on the other hand the VHF mobiles had a POS/RATE of, say 60 seconds for the UNPROTO path of RELAY,WIDE,WIDE and a POS/RATE of say 300-600 seconds for an UNPROTO path of RELAY,GATE,WIDE it would allow more effective use of the system.

The additional POS/RATE, UNPROTO paths could also be used very effectively for covering a wide area on VHF when you happen to be in the middle of the pack. Say for example one UNPROTO path could be set for a string of North bound WIDES (by specific callsign) and the next UNPROTO path could be set for a string of South bound WIDES (by specific callsign) or East or West depending upon your location. This would also help prevent the problem of using the path WIDE,WIDE,WIDE and having the packets fold back into the first WIDE on the third bounce.

73 - Bill WB3V

-----  
Bill Howard wjh@ideas.com web - <http://baretta.ideas.com/>  
Science Applications International Corporation, Ideas Group  
7120 Columbia Gateway Dr., Columbia, MD 21046  
Voice:(410)312-2060 Fax:(410)312-2250  
-----

## 100. Re: [APRSSIG:3233] ftp sites fer Wx .....

From: mark@tetherless.com (Mark Oppenheim)  
Date: Thu, 7 Sep 1995 10:54:38 -0700  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <199509071754.KAA15871@gorgor.pa.tetherless.com>  
Rendered body type: text/plain

At 11:20 AM 9/7/95 -0500, paul@paccomm.com wrote:  
>  
>Anybody got a list of ftp sites for wx related stuff?  
>  
>In particular, hurricane tracking and prediction (?).  
>Also, Web sites fer future reference.....  
>

Try this link, a lot of hi-res WX graphics, very complete, and very frustrating on slow modem connections.

<http://thunder.atms.purdue.edu/>

---

|                                 |                               |
|---------------------------------|-------------------------------|
| Mark Oppenheim                  | Internet: MARK@TETHERLESS.COM |
| Tetherless Access Limited       | Voice: 415-843-6880 x18       |
| 2468 Embarcadero Way            | Fax: 415-843-6890             |
| Palo Alto, California 94303 USA |                               |

Visit our WWW site! <http://www.tetherless.net/>

---

## 101. Re: [APRSSIG:3233] ftp sites fer Wx .....

From: mahoner@wpdis01.wpafb.af.mil (Maj Robert G. Mahoney)  
Date: Thu, 7 Sep 95 14:38:03 -0400  
To: aprssig@tapr.org  
Message-ID: <9509071838.AA18829@wpdis01.wpafb.af.mil>  
Rendered body type: text/plain

In your message of 7 Sep 1995 at 1255 EDT, you write:  
>  
> Anybody got a list of ftp sites for wx related stuff?  
>  
> In particular, hurricane tracking and prediction (?).  
> Also, Web sites fer future reference.....  
>  
> ~~~~~  
> Paul Evans, W4/G4BK1 paul@paccomm.com +1 (813) 874-2980 | \

Try <http://thunder.met.fsu.edu/explores/explores.html>

I'm not all that familiar with it, but I just saw a great space shot of Luis and a projected track.

de Bob

## 102. Version 73a

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 7 Sep 1995 15:32:08 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950907152732.2431C-100000@greatlakes>  
Rendered body type: text/plain

On Thu, 7 Sep 1995, Dan Tassell wrote

> ... Is APRS 7.3a the latest ver and if it  
> is, I have heard that people are having problems with it crashing. Are  
> there any corrections in the works.

APR REPLY: This is news to me. I have heard of no problems with 73a and was hoping to work on some other stuff for a while. The only thing that is "wrong" is the new-user MAP display says F-C instead of M-C for the MAPS-CHANGE-maplist command... IF ANYONE HAS FOUND A REPRODUCABLE BUG, lemme know...

## 103. APRS on WWW

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 7 Sep 1995 18:21:55 -0400 (EDT)  
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.950907181742.7465A-100000@greatlakes>  
Rendered body type: text/plain

Well, not really, and I dont understand all of the web stuff, but if I could have a copy of APRS save out a SCREEN.GIF file snapshot of the screen say, once an hour or so, is there someone who then can make the electrons automatically suck that into their web site? Then web browsers could check your home page and see a CURRENT map.

If someone can tell me what the .GIF format is, then maybe I can make APRS copy out a map in that format... Well, I assume that I can probably find the details on the .gif format here, but if I am overlooking something, please lemme know.... Or would a .PCX format be better? I was told by someone else that WEB sites like GIF files...

---

## 104. Hello

From: jlauber@ix.netcom.com (John Lauber)  
Date: Thu, 7 Sep 1995 17:56:30 -0700  
To: aprssig@tapr.org.Hey.Bob...just.want.to.say.hello.via.internet...you're.doing.great  
Message-ID: <199509080056.RAA23016@ix6.ix.netcom.com>  
Rendered body type: text/plain

stuff...keep it up! 73 de John W6PNC

---

## 105. GPS/Laptop tracking s/w

From: mwalker@interlog.com (Mike Walker)  
Date: Fri, 08 Sep 95 07:50:34 EDT  
To: aprssig@tapr.org  
Message-ID: <199509081150.HAA27654@gold.interlog.com>  
Rendered body type: text/plain

On Monday, someone posted the phone number of a BBS (in Florida I think), as a beacon on 30M. It had something to do with gathering NMEA data and using it for Mapfix (at least so it was inferred).

Did someone copy the phone number of the BBS?

cheers...mike

Mike Walker  
127 High St. W.  
Mississauga, ON  
L5H 1K4

mwalker@interlog.com  
rf: va3mw@va3bbs

---

## 106. Re: Hurricane Info Source- your request

From: am649@yfn.ysu.edu (William H. Bosley)  
Date: Fri, 8 Sep 1995 10:59:35 -0400  
To: aprssig@tapr.org, paul@paccomm.com, bosley@bev.net  
Message-ID: <199509081459.KAA06827@yfn2.ysu.edu>  
Rendered body type: text/plain

>From: paul@paccomm.com

>Anybody got a list of ftp sites for wx related stuff?  
>In particular, hurricane tracking and prediction (?).

Paul!

Not FTP or WWW site but this is best and fastest source for what you want. This is automatic direct distribution of all tropical storm bulletins to your email box.

send message to  
listserv@vmd.cso.uiuc.edu

Can leave subj blank as it is ignored

Text is  
"SUB WX-TROPL PAUL EVANS"

Limit output to Atlantic area with second line  
"SET WX-TROPL TOPICS: ATLANTIC"

73, de Bos, K3NN

---

## 107. RE: Ralph's (N4NEQ) Message on .BK file uploads

From: k6enghcs@sasdns.sas.usace.army.mil (Cardwell Smith)  
Date: Fri, 8 Sep 1995 13:14:26 -0400  
To: aprssig@tapr.org

Message-ID: <199509081714.NAA03123@sasdns.sas.usace.army.mil>  
Rendered body type: text/plain

Ralph-

I think your idea about uploading "local" .BK files for our different areas is great! In that spirit, I have loaded Savannah.bk in the UPLOAD/BACKUP directory.

Thanks,  
Cardwell Smith, N4FOR

---

## 108. DCC Dallas

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Fri, 8 Sep 1995 23:53:55 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130500ac76cca9ba6f@[199.1.154.19]>  
Rendered body type: text/plain

Keith just gave us a great 3 Hr. workshop on APRRS.  
We had both Mac & PC versions running. There was a HF gate via the van from the parking lot and several mobile trackers. I hope you'all saw us.

We took a break for dinner and went at mapping applications until 11pm.

The conference room was full !!. This is just a quick report.

72 ye'ha

Bob - Dallas, TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

## 109. Map Accurcey - How Important Now ?

From: John Baum <jbaum@freenet.columbus.oh.us>  
Date: Sat, 9 Sep 1995 08:54:47 -0400 (EDT)  
To: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>  
Cc: aprs sig <aprssig@tapr.org>  
Message-ID: <Pine.3.07.9509090847.A2675-c100000@acme>  
Rendered body type: text/plain

I remeber when I first fired up the APRS program 2 years ago with version 2.05. The maps were crude and covered large areas with little or no detail. Then we had the orginal mapfix to work off of just to check to see how they looked, no editing or lableing capabilities, and were limited to 999 points and 99 line segments (crashed many a map by exceeding those limits.) With those maps, at a 4 mile range, if a vehicle tracked close to the road, we were extremely happy. (A lot of those maps are still in use, and will probably never be updated.)

I've spent a few hours over the last week to determine how accuarte the different mapping schemes are. .02 mins here, .04 mins there, oh my.. .05 mins. Then it dawned on me, I was at the .125 mile range, and those little gray or red lines themselves should be at least .01 min wide, if not more. And how accurate are the GPS unit's we are using without DGPS, .02 to .03 mins. (A path of a tornado can be up to .5 mins wide.)

For a long time I thought that fewer map points were best (quick redraws, cleaner lines, etc.) then I got tied up into the CD-ROM and found myself trying to squeeze a 2 mile range map in under 3,000 points. I created my own monster. The last map that I did had 2795 points, and took my 386dx-40 4 second to redraw, (I hate to see what it would do to the poor old 8088 laptop w/lcd screen that I use for mobile ops) it it replaced a 990 point map that was there in about 1 second.

So what's my point. - How accurate do these maps need to be ? Does anyone care if they are 1/16th of a mile off at a 4 mile range? Doe we really need to zoom in to the .0625 mile range (I've gone down as far as .03125 mile range.) I want to throw it out for open disscussion - Normally us map makers rarely hear back from the users, (when we do it's "gee, my gps unit shows that the road I live on should be moved N and little when I zoom down to the .xxx range). Are you folks willing to give up speed for accuracy, do you really care about a road being 50 ft off, (if your using the program to autonavigate your car, I want named on you life insurance policy). Remember folks - the map that we use (USGS CD-ROM's) are at a 1 cm on the paper equals 1 kilometer in the dirt.

O.K., I vented, I feel better, now lets see, which #@\$&^(\*!! map was I working on.....

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249

"Will do maps for dang near anything"  
Cruise Missile Address: 39 56.35 N 082 58.89 W  
The 157th most knowledgeable person about A.P.R.S. and slipping fast !

---

## 110. Garmin GPS-45 DataIN

From: W2H0B@aol.com  
Date: Sat, 9 Sep 1995 20:18:30 -0400  
To: aprssig@tapr.org  
Message-ID: <950909201827\_95420459@emout04.mail.aol.com>  
Rendered body type: text/plain

My Garmin GPS-45 outputs 3vdc which is sufficient for my various computer serial port's RS-232. However, since my computer ports all output 12vdc, I'm wondering if I should put in some limiting resistors or use a zener diode or some such so I can have the computer talk TO the GPS. I want to try downloading some of the stored waypoints using the comm program I got from the tapr.org ftp site.

This could've been mentioned in the APRS docs... I don't remember seeing it though... are there any suggestions or caveats?

Thanks for the help.  
73 de Boyd W2H0B@aol.com

---

## 111. APRS Map Datums (Dati?)

From: "Brent Bolen" <ke6jgn@garlic.com>  
Date: Sat, 9 Sep 1995 22:33:31 +0000  
To: aprssig@tapr.org  
Message-ID: <9509100529.AA27136@garlic.com>  
Rendered body type: text/plain

I was wondering what the datum for the maps and the positions displayed on the maps are?

>WGS-84  
>NAD-27  
>Hjorsey-55  
>SAD-69  
> It doesn't matter

Thanks,  
KE6JGN  
Brent Bolen  
If its not a Border Collie,  
its just a dog.

---

## 112. Re: [APRSSIG:3247] APRS Map Datums (Dati?)

From: John Baum <jbaum@freenet.columbus.oh.us>  
Date: Sun, 10 Sep 1995 12:06:54 -0400 (EDT)  
To: Brent Bolen <ke6jgn@garlic.com>  
Cc: aprssig@tapr.org  
Message-ID: <Pine.3.07.9509101250.A8170-a100000@acme>  
Rendered body type: text/plain

On Sun, 10 Sep 1995, Brent Bolen wrote:

> I was wondering what the datum for the maps and the positions  
> displayed on the maps are?  
> >WGS-84  
> >NAD-27  
> >Hjorsey-55  
> >SAD-69  
> > It doesn't matter

It's Datums , and It doesn't matter.

Most of the maps you see are based on USGS 1:100,000 mapset, which are NAD-27 (North American Datum - 1927) and to quote the USGS  
"To place on the predicted North American Datum 1983, move the projection lines 2 meters south and 17 meters west."  
Where is Atlas when you need him?

> If its not a Border Collie,  
> its just a dog.

Don't tell that to my Basset Hound, she just might roll over and goober on you.

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249  
Cruise Missile Address: 39 56.35 N 082 58.89 W

---

### 113. How to set Unproto

From: GBohner@aol.com  
Date: Sun, 10 Sep 1995 12:46:55 -0400  
To: aprssig@tapr.org  
Message-ID: <950910124650\_95775806@mail06.mail.aol.com>  
Rendered body type: text/plain

I am going to be cruising the Caribbean and want to use APRS to do position reporting.  
Due to the distance, I will probably just use HF on 10.151 mhz.  
What is the correct way to set unproto so that other HF stations will digipeat my signal. I do not think it is practical to select one station since I will be moving around alot. Also, some ocean crossings take 12 hours or more and the skip would be changing.  
Some local APRS users suggested setting it to: gate,wide/wide,wide but there seems to be considerable confusion on this topic.  
Thanks in advance for any help.  
If you see a signal in a few weeks coming in from Trinidad, off the coast of Venezuela, that's me.  
Guy Bohner, W6LJL, GBohner@aol.com

---

### 114. Re: [APRSSIG:3249] How to set Unproto

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 10 Sep 1995 18:08:29 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950910180254.1085B-100000@greatlakes>  
Rendered body type: text/plain

On Sun, 10 Sep 1995 GBohner@aol.com wrote:

> I am going to be cruising the Caribbean and want to use APRS to do position  
> reporting. Due to the distance, I will probably just use HF on 10.151 mhz.  
> What is the correct way to set unproto so that other HF stations will  
> digipeat my signal.

REPLY: In general, you don't want other stations digipeating on HF.

> Some local APRS users suggested setting it to: gate,wide/wide,wide

APR REPLY: I assume this is for a KAM or other dual port TNC? If so, then that is a good setting. The path of gate,wide on HF is the nominal default. It will allow all gateways to relay your position onto VHF.

---

### 115. Re: [APRSSIG:3246] Garmin GPS-45 DataIN

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>  
Date: Sun, 10 Sep 1995 22:33:54 -0400  
To: aprssig@tapr.org  
Message-ID: <199509110233.WAA02630@dylan.mindspring.com>  
Rendered body type: text/plain

At 07:40 PM 9/9/95 -0500, Boyd wrote:

>  
>My Garmin GPS-45 outputs 3vdc which is sufficient for my various computer  
>serial port's RS-232. However, since my computer ports all output 12vdc, I'm  
>wondering if I should put in some limiting resistors or use a zener diode or  
>some such so I can have the computer talk TO the GPS. I want to try  
>downloading some of the stored waypoints using the comm program I got from  
>the tapr.org ftp site.  
>

Garmin's tech svc dept advised me that "their" cable is straight through.

I was the originator of the first "Non-Garmin" serial cable. I originally used Bob's little pull-up resistor scheme. After finally finding out from Garmin how their cable was wired (I wasn't about to spend \$140.00 for their cable and program), I simplified it and posted the cable diagram here and on my FTP site.

If you are using a PC Clone, you should not have to worry about anything when you hook up straight thru.

Ralph

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA  
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info  
FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info  
Another ATV and GPS Balloon Flight coming up pretty soon from Atlanta, GA  
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

---

## 116. Re: [APRSSIG:3251] Re: Garmin GPS-45 DataIN

From: W2H0B@aol.com  
Date: Sun, 10 Sep 1995 23:10:18 -0400  
To: aprssig@tapr.org  
Message-ID: <950910231014\_96190658@mail06.mail.aol.com>  
Rendered body type: text/plain

For Ralph about the Garmin Serial Port...

Thanks for the reply, but I just want to confirm your message saying that if I used a PC clone, I shouldn't have to worry about damaging the GPS-45 if I send the PC's 12vdc output to the GPS-45's input? If that's correct, I'll get right to the task of doing some downloading.

My wife STILL doesn't know I bought the little gadget and even if she finds out, it won't be too detrimental to my health 3-4 months later, but... if I ruin this one, I doubt that I'll get a second chance to pull it off again!!!

Thanks again es 73 de Boyd AR

---

## 117. MIR heads-up

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Sun, 10 Sep 1995 23:42:54 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130500ac796c5c8a89@[199.1.11.104]>  
Rendered body type: text/plain

German Cosmonaut Thomas Reiter, DF4TR, arrived at the Russian space station MIR. He will stay there for 135 days and operate DP0MIR

The frequencies to be used are 145.800 MHz for downlink, and 145.200 MHz for uplink, as adopted at the IARU session of the AMSAT-UK Colloquium this year.

There should not be any QRM at 145.800 MHz, because this frequency is in the 2-meter satellite sub-band. So listen for DP0MIR at 145.800 MHz, however watch 145.550 MHz too. He will operate not only over Europe, but worldwide.  
-----

"There should not be any QRM at 145.800 MHz"

Hum, only us at 145.790 MIR has +/- 3 KHz doppler,  
so watch your deviation.

We may want to crank the power down for the next few months ?????

Comments ??

73

Bob - Dallas, TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

## 118. GPS dealers in Canada

From: Bob Sayers <bsayers@implex.co.uk>  
Date: Mon, 11 Sep 95 09:14:54 +0  
To: aprssig@tapr.org  
Message-ID: <Chameleon.4.01.2.950911091905.bsayers@westmids.epline.implex.co.uk>  
Rendered body type: text/plain

I'm hoping to be able to make a trip to Montreal, Canada at the end of this week. Can anyone recommend dealers offering handheld GPSs at useful prices in the greater Montreal area, or any Canadian dealers currently advertising them (probably a GPS-45) at good prices by mail order?  
Any suggestions by eMail please to bsayers@epline.implex.co.uk

Thanks!



-----  
Bob Sayers, West Midlands Emergency Planning Unit,  
West Midlands Fire Service, Lancaster Circus, Birmingham  
eMail: bsayers@epline.implex.co.uk  
Telecom Gold/Copost: 10092:LLA3058  
AX.25: G8IYK  
ampr: g8iyk  
'phone: 0121-380-7611 fax: 0121-359-5108  
Date: 09/11/95 Time: 09:14:54  
-----

## 119. Toshiba T3100 using the 2 serials?

From: RonN9QGS@aol.com  
Date: Mon, 11 Sep 1995 07:43:43 -0400  
To: APRSSIG@tapr.org  
Message-ID: <950911074341\_96369499@emout04.mail.aol.com>  
Rendered body type: text/plain

This is a question somewhat raised by a friend K9SB

He purchased a Toshiba 3100, and he states it has 2 serial ports, but you can only use one at a time cause there is a switch on the side? He is wondering if he can use this with a GPS and a TNC plugged in. He said he had to dig through the mail and check this out but maybe someone has this unit and can answer his question. He would like to wire the GPS into the computer to do the sending of his position. Otherwise he would need a second TNC and Radio, and ts nice to avoid spending that extra \$\$\$.

Ron  
N9QGS  
42 Degrees 1 Minute North, 88 Degrees 9 Minutes West

## 120. Re: [APRSSIG:3252] Re: Garmin GPS-45 DataIN

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>  
Date: Mon, 11 Sep 1995 08:42:33 -0400  
To: aprssig@tapr.org  
Message-ID: <199509111242.IAA15415@dylan.mindspring.com>  
Rendered body type: text/plain

At 10:22 PM 9/10/95 -0500, you wrote:  
>For Ralph about the Garmin Serial Port...  
>  
>Thanks for the reply, but I just want to confirm your message saying that if  
>I used a PC clone, I shouldn't have to worry about damaging the GPS-45 if I  
>send the PC's 12vdc output to the GPS-45's input? If tha's correct, I'll get  
>right to the task of doing some downloading.  
>  
>My wife STILL doesn't know I bought the little gadget and even if she finds  
>out, it won't be too detrimental to my health3-4 months later, but... if I  
>ruin this one, I doubt that I'll get a second chance to pull it off again!!!  
>  
>Thanks again es 73 de Boyd AR  
>  
>

Posting in the SIG because a lot of folks have GPS-45's

This came straight from Garmin.  
I am speaking of a regular old serial port on a PC or laptop.  
I use it every day and so do lots of others.

You know, that if you power the 45 externally, the unit runs fine on 5-40 volts. If you REALLY are talking about a GPS-40, then you must check its limitations. The cable for the 40 has a regulator in it. As I understand it though, you are doing DATA ONLY.

Use due care, and it should be no harder than hooking up a TNC!

HOWEVER

If you blow something up, I am not responsible.

And of course, if you really feel uncomfortable- buy their cable. It is now about 40 bucks, I hear. Better than the 140.00 it was this time last year!

---

## 121. GPS Unit-Recommendations

From: "Harrington Ed" <Harrington.Ed@mail.ndhm.gtegsc.com>  
Date: 11 Sep 1995 09:50:53 U  
To: "APRS Mailing List" <aprssig@tapr.org>  
Message-ID: <n1401309611.8397@mail.ndhm.gtegsc.com>  
Rendered body type: text/plain

I am interested in purchasing a GPS unit to be used for hiking as well as APRS packet operation at home. Please send me your recommendations.  
Thanks and 73s,  
Ed--AA1IN.

---

## 122. Re: [APRSSIG:3255] Toshiba T3100 using the 2 serials?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 11 Sep 1995 09:59:09 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950911095734.6894B-100000@greatlakes>  
Rendered body type: text/plain

On Mon, 11 Sep 1995 RonN9QGS@aol.com wrote:

>  
> He purchased a Toshiba 3100, and he states it has 2 serial ports, but you can  
> only use one at a time cause there is a switch on the side? He is wondering  
> if he can use this with a GPS and a TNC plugged in. He said he had to dig

RUN APRS IN SPM MODE. THEN WHENEVER HE SWITCHES TO THE GPS, HIS POSIT IS  
UPDATED, WHEN HE SWITCHES TO TNC, HE IS ON THE AIR.

But dont bother. Just build or buy the HSP switch and operate like  
everyone else with one serial port.

---

## 123. Re: [APRSSIG:3253] MIR heads-up

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Mon, 11 Sep 1995 09:34:59 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199509111435.JAA02536@solar.cs.tamu.edu>  
Rendered body type: text/plain

Robert Winingham sez:

>  
> German Cosmonaut Thomas Reiter, DF4TR, arrived at the Russian space station  
> MIR. He will stay there for 135 days and operate DP0MIR  
>  
> There should not be any QRM at 145.800 MHz, because this frequency is in the  
> 2-meter satellite sub-band. So listen for DP0MIR at 145.800 MHz, however  
> watch 145.550 MHz too. He will operate not only over Europe, but worldwide.  
> -----  
>  
> "There should not be any QRM at 145.800 MHz"  
>  
> Hum , only us at 145.790 MIR has +- 3 KHZ doppler,  
> so watch your deviation.

I think we need to be VERY mindful of this. 1. Dviation should be cranked  
back down to what's actually good practice for digital work, considering  
switching rate AND AFSK tone frequencies. 2. Power levels are not realsiticly  
gonna change much. 3) If you're using a lot of power, you should be looking  
at an OMNI antenna with a low angle of radiation, so that you're mostly of  
concern near the horizon (all Omni antennas are not created equal!).

I guess I'd expected this for some time. While we pretty well need a  
"homeland" we need to be conscious of the other legitimate users, especially  
those who are constrained by international treaty obligation.

73, gerry

--

Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

---

## 124. [APRSSIG:3257] GPS UNIT-RECOMM

From: phil.finkle@sid.net  
Date: Mon, 11 Sep 95 14:28:59 -0400  
To: aprssig@tapr.org  
Message-ID: <9509111428.0KCGV01@sid.net>

Rendered body type: text/plain

om

pse pass on the recommendations that u get. i'm also looking ap buying a gps around \$300 price range. looking at garmin es magellan. one ham has the gps40 garminand he's real enthused abt it. but i'd like to hr what other folks think abt some of the other models before i spring for it.

tnx es 73, phil k6eid

Phil.Finkle@sid.net

---

## 125. Sluggish problem

From: wnolle@ro.com (William Nolle)  
Date: Mon, 11 Sep 1995 13:31:54  
To: sprevo@sh1.ro.com, aprssig@tapr.org  
Message-ID: <199509111836.NAA11333@sh1.ro.com>  
Rendered body type: text/plain

Thanks for you reply to my message. I have done a limited amount of checking so far and found that the problem must be at your site. My connects are consistantly 24K (I use the same modem you use). I have a Pentium 90mhz with 8meg of ram. Netscape browser. 32 Bit hard drive.

I would think that the above would leave out the idea that it maybe on my end or telephone problems. I realy believe your system is overloaded and not just during your listed peak hours of 1:00pm to 1:00am. This morning at 8:31am after having a hard time getting connected to a web site i downloaded a couple of files, here are the results of that download.

1685K file High baud rate (2.2k/sec) Low baud rate (1.8k/sec)  
Many, many coplete stops (Some in access of 2 minutes) of complete inactivity on my modem.

-----  
8:50am

3162K file High baud rate (1.6k/sec) Low baud rate (0.7k/sec)  
Again many pauses with no activity at all.

The 0.7 baud rate is unacceptable, i'm sure you will agree?.

I do not call your Tech support anymore since the last time i had problems when i installed Win95 and needed your access number because the one i had entered would give me only 2 beeps and no connect. I asked the person that answered the phone if that was the correct logon number and he said YES causing me lot's of problems trying to figure out what the problems was. I again called back and asked him to make sure it was the correct number and he of course then gave me the correct number. Now i don't want to knock you Tech support crew, i'm sure they are great guys, but they do not seem to dedicated to helping to solve a problem. Another example was when i had problems connecting when i first signed up for you service, i called and asked what Init string i should use to connect to your service since i have the same modem used at your system i thought they would be able to help me. Well i was told to contact US-Robotics, i thought that was rather tacky. Anyway Sir i believe that you ratio of users to modems or ports, (I'm not up on this) is to high, i have done a lot of reading about this and the Max ratio a provider should have is 8 to 1. Like i say you know more about this then any of us do i'm sure. All i know is that when i see a trougput as sloow as 0.4k/sec and know there's something wrong.

William Nolle  
wnolle@ro.com  
experst

---

## 126. Re:APRSSIG 3261

From: wnolle@ro.com (William Nolle)  
Date: Mon, 11 Sep 1995 17:23:24  
To: aprssig@tapr.org  
Message-ID: <199509112227.RAA05306@sh1.ro.com>  
Rendered body type: text/plain

Sorry to all for a message i send that eneded up on the sig, but i still don't know how that happened except that somehow the problem lies with TAPR.

My message was directed to the right address because that person did get and responded to the message, but i also received that now Famous message,

Mail error: POSTMASTER@REDRIVER.KSC.NASA.GOV with a copy of the message, untill someone who knows how fixes this anything is libal to happen. I checked copys of my message and it was only directed to the person it was suppose to directed to, but was send right after reading a sig message!?!?.

Bill KE4EER  
wnolle@ro.com

---

## 127. Re: Trak History Problem?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 11 Sep 1995 19:36:32 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950911193140.21871D-100000@greatlakes>  
Rendered body type: text/plain

On Mon, 11 Sep 1995 DDOBBINS@aol.com wrote:  
> Bob, when you get a chance, pls check to confirm that, when mobile, the HST  
> file is saved automatically every 14K or so. I did a long drive the other  
> day, but can't find the file anywhere.

APR REPLY: GOTCHA! It got me on a rare long (150 mile round trip to the local (rural) WIDE) too!!!

What has happened is that somewhere a while back, I set the default for NEW USERS to LOG OFF. This is to prevent a new user casually playing and testing APRS from filling up his hard drive with track histories probably withou his knowledge.... The result is that when I do a NEW release that requires everyone to RESTART and RE-CONFIGURE APRS from scratch, that they overlook the need to turn LOG ON. LOG is now saved in the CONFIG file, so once you turn it on, it will stay on.

I hope this explains your lost file. SOrrry. It got me tooo...

---

## 128. APRtrak

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 11 Sep 1995 19:56:22 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950911194633.21871F-100000@greatlakes>  
Rendered body type: text/plain

You guys know by now that I can't keep quiet about neat ideas... but here is what Ive been working on... ITS NOT FINISHED SO DONT LOOK FOR IT!

APRtrak will be given to tha AMSAT software library for tracking any future satellites that may beacon their POSITS. It will also display the VERY MINIMUM telemetry page if any PICOats eventually fly... Basically it is APRS with most JUNK removed, but ORBITAL TRACKING added! It will not only display the location of all APRS or GPS packets heard, but it will also PREDICT and display the locations of up to 9 satellites.

As you know, the last SAREX mission allowed APRS digipeating, and the upcomming SPRE payload (Dec 95) will also support an APRS digipeater, report its GPS position, and also report its TELEMETRY in a format compatible with APRtrak...

Hopefully by donating APRtrak to AMSAT, I will remove most of my self interest in promoting the use of APRS packets for ground station DXing...

I still think seeing all successful ground stations on the tracking map will be very rewarding to the schools and students...

APRtrak will be out in plenty of time for the Dec mission of SPRE.

---

## 129. 145.800 and packets on .79

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 11 Sep 1995 20:12:58 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: amsat-bb@amsat.org  
Message-ID: <Pine.SUN.3.91.950911195628.21871G-100000@greatlakes>  
Rendered body type: text/plain

Did the decision to choose 145.800 for MIR intentionally straddle a band edge so that thir energy was half in the satellite band, and half out of it?

I am not complaining, but from an AMSAT enthusiasts persepective, if I try to monitor 145.800 for MIR, I have to listen to half-packets on 145.79.

Would not 145.810 have been the correct frequency to choose for a 20 KHz

wide FM signal from MIR to stay within the satellite subband?

Can someone forward this message to the powers-that-be? I'm not complaining, just making an observation that maybe the original thinkers overlooked... de WB4APR (yeah, I know its all my fault anyway, hi hi)

---

### 130. Re: [APRSSIG:3249] How to set Unproto

From: Michael Walker <mwalker@gold.interlog.com>  
Date: Mon, 11 Sep 1995 21:34:38 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.3.89.9509112104.B7980-0100000@gold.interlog.com>  
Rendered body type: text/plain

On Sun, 10 Sep 1995 GBohner@aol.com wrote:

> I am going to be cruising the Caribbean and want to use APRS to do position  
> reporting.  
> Due to the distance, I will probably just use HF on 10.151 mhz.  
> What is the correct way to set unproto so that other HF stations will  
> digipeat my  
> signal. I do not think it is practical to select one station since I will be  
> moving around  
> alot. Also, some ocean crossings take 12 hours or more and the skip would be  
> changing.  
> Some local APRS users suggested setting it to: gate,wide/wide,wide  
> but there seems to be considerable confusion on this topic.  
> Thanks in advance for any help.  
> If you see a signal in a few weeks coming in from Trinidad, off the coast of  
> Venezuela, that's me.  
> Guy Bohner, W6LJL, GBohner@aol.com  
>

Hello Guy,

I have been operating via HF mobile from the car on 30M and I have found that W7LUS,gate,wide got me the best coverage back to Toronto.

The W7LUS Digi has amazing coverage throughout Eastern NA.

Cheers...mike  
va3mw

mwalker@interlog.com

---

### 131. APRS in WIN background

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 11 Sep 1995 23:00:17 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.950911221539.22715A-1000000@greatlakes>  
Rendered body type: text/plain

I have heard from everyone that APRS does not run in windows in the background... And I have pretty much accepted that as fact...

BUT I was reminded tonight by a call from WB6HAG (Jim) that he has had APRS running in the background under regular old windows 3.1 all along. He is the fellow that suggested I write the STREETS-ON-A-DISK interface so that both APRS (doing the TNC and dispatcher work) could run at the same time as STREETS (which gives street address level detail). APRS periodically writes a POS.GPS file that streets uses to put ALL of the APRS posits on their MAPS. They even support many of the APRS symbols, and other symbol definitions can be generated.

He insists he is not a windows guru, and he has never had any problems running APRS in the background..

Now since Jim had the original idea for APRS to output a file so that STREETS could use it, and he wrote a professional quality manual describing the dual use arrangement (better than APRS docs) I have let him pretty much be the owner of said idea. To WIT, he asks for a \$25 contribution for a copy of the manual.

In over two years, he has sold 1 copy. (And I had pretty much forgotten about him until he called tonight with a minor bug with runing both STREETS and APRS under the faster WIN95.

THE POINT IS. HE SAYS APRS RUNS FINE IN THE BACKGROUND UNDER WINDOWS 3.1 and WIN95, always has, and he has never had any problems in 2 years... AND we are talking about REGULAR OLD APRS. The "STREETS interface in APRS" is built into every copy of APRS, and all it does when activated is to periodically WRITE a position file in the format desired by STREETS.

(Not one APRS-STREETS-interface V# sold yet...) See COMMERCL.txt.

So what are we all missing? I dont do windows, yet, so I cant help...  
And he is the only one that says IT DOES WORK. hi hi

If anyone wants to buy his manual and prove us right or wrong, ill happily issue him the APRS-STREETS-INTERFACE V#.... By the way, Jim deserves the contribution, since he updates his manual frequently but still has only sold 1 copy... He also submitted an article (significantly chopped to pieces) that just appeared under the column "UPGRADE... DONT STOP NOW" (Title NOT related to APRS) in Radio FUN magazine... August, page 21.

Other background about STREETS: It costs about \$200 and each county costs \$95 It is a commercial product sold by Klynas Engineering. See my COMMERCL.txt file...

BUT AGAIN, THE PURPOSE OF THIS MESSAGE IS NOT TO SELL STREETS OR THE APRS-to-STREETS V#s, but to remind us all that WB6HAG says that ALL VERSIONS OF APRS run fine for him in the BACKGROUND on Windows 3.1, 3.2 and WIN95... Jim Carter WB6HAG said he just got on internet this week and will subscribe to APRSSIG in the next day or so... In the mean time, he can be reached at 2029 W. Hall St, Santa Ana, CA 92704.

Yes, I have a copy of his manual, but I dont do windoz, and its all greek to me....

---

## 132. APRS IN Windows

From: jeff.brenton@espi.com  
Date: Tue, 12 Sep 95 02:00:57 -0500  
To: aprssig@tapr.org  
Message-ID: <9509120200.02TYL0T@espi.com>  
Rendered body type: text/plain

Bob, APRS works fine in the background under Windows and OS/2, if you are willing to accept certain restrictions.

If you will accept 16 or 64 color modes, APRS can run in the background. If no task makes use of the high-resolution VGA (256 color), APRS will run when in the background.

However, most multimedia products insist upon 256 or even 32,767 color modes be enabled. Under OS/2, since the Presentation Manager (aka the "desktop") is always running, and is set to the high resolution, APRS stops when in background, unless you limit it to CGA graphics (looks ugly!).

In Windows 256 color mode, if you run two DOS tasks (APRS being one of them), APRS will run when the second DOS task is running full screen in the foreground, but it will stop if you try to run it in a window, with Program Manager or some other GUI program running.

This has been my experience - the last item (APRS running in background with another DOS task in the foreground) actually surprised me; I hadn't tried just switching between the DOS tasks during the first test.

Eventually, I'll have a 286 machine sitting here to run APRS, so I don't have to worry about backgrounding it in OS/2...

---

## 133. Re: [APRSSIG:3265] 145.800 and packets on .79

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Tue, 12 Sep 1995 07:36:55 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199509121236.HAA20942@solar.cs.tamu.edu>  
Rendered body type: text/plain

Bob Bruninga sez:

>

>

> Did the decision to choose 145.800 for MIR intentionally straddle  
> a band edge so that thir energy was half in the satellite band, and half  
> out of it?

I believe the decision was arrived at to diminish the effects of an FM signal on the resident satellites and those planned that might use the 2 meter band. There's nothing in the rules (or treaties) that says they have to be well within the band... just that by being inside the band they'd be somewhat protected by treaty.

> I am not complaining, but from an AMSAT enthusiasts perspective, if I try  
> to monitor 145.800 for MIR, I have to listen to half-packets on 145.79.

I've already spoken on that.

> Would not 145.810 have been the correct frequency to choose for a 20 KHz  
> wide FM signal from MIR to stay within the satellite subband?

I might have been better, but there's hardware using .810 +/- a little.

> Can someone forward this message to the powers-that-be? I'm not  
> complaining, just making an observation that maybe the original thinkers  
> overlooked... de WB4APR (yeah, I know its all my fault anyway, hi hi)

I suspect that the SAFEX powers that be have reached their decision, and it's  
just done. They were not inclined, in my previous experience with them, to  
make a decision more than once.

73, gerry

--

Gerry Creager N5JXS  
gerry@cs.tamu.edu

\* SAREX Co-Investigator  
\* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

---

## 134. EUROMIR FREQUENCIES

From: wd4hoy@gremlin.greenville.lib.sc.us (John Mckay)  
Date: 12 Sep 1995 00:10:22 EDT  
To: AMSAT-BB@amsat.org  
Message-ID: <81087902933039@gremlin.greenville.lib.sc.us>  
Rendered body type: text/plain

There seems to be some concern over the downlink of 145.800 during  
EUROMIR's Mission and rightfully so since 145.800 would place  
half the signal out of the normal bandpass for this type of operation  
not to mention the packet interference from 145.790. The following  
was downloaded last week off of Compuserve and may shed some light.

SAFEX I Frequencies (EUROMIR'95 Mission)

=====

Uplink and downlink frequencies of the Amateur Radio  
Station SAFEX I aboard the Russian Space Station MIR  
during the EUROMIR'95 Mission with the German ESA-  
Cosmonaut Thomas Reiter, DF4TR  
(SAFEX: Space AmateurFunk EXperiment)

2m-Band

-----

|               |          |             |
|---------------|----------|-------------|
| Voice:        | Downlink | 145,850 MHz |
|               | Uplink   | 145,250 MHz |
| Packet Radio: | Downlink | 145,550 MHz |
|               | Uplink   | 144,625 MHz |
|               |          | 145,550 MHz |
| add. Uplinks: |          | 145,200 MHz |
|               |          | 145,225 MHz |
|               |          | 144,675 MHz |
|               |          | 144,725 MHz |

70cm-Band

-----

|               |          |                    |
|---------------|----------|--------------------|
| Voice:        | Downlink | 437,925 MHz        |
|               | Uplink   | 435,725 MHz        |
| Packet Radio: | Downlink | 437,775 MHz        |
|               | Uplink   | 435,775 MHz        |
| add. Uplinks: |          | 435,800 MHz        |
|               |          | to 436,000 MHz     |
|               |          | with 25kHz spacing |

Orbit Operations:

Thomas Reiter, DF4TR

Onboard Station Call DP0MIR

Ground Operations:

Amateur Radio Station R3K at ZUP control center,  
Kaliningrad, Moscow, Russia

Sergej Samburov, RV3DR

P.O. Box 73  
Kaliningrad-10 City  
Moscow Area, 141070, Russia

Amateur Radio Station DF0VR at GSOC control center,  
Oberpfaffenhofen, Munich, Germany

Thomas Kieselbach, DL2MDE  
Joerg Hahn, DL3LUM  
DLR Amateurfunkstation Oberpfaffenhofen  
P.O. Box 1116  
82230 Wessling, Germany

Reference: CQ-DL Nr. 8/95  
(monthly magazine of German Amateur Radio Club DARC e.V.)

```
=====
John McKay      Compuserve  70714,1661@compuserve.com
WD4HOY          Internet    wd4hoy@gremlin.greenville.lib.sc.us
Taylors, SC     Amsat       wd4hoy@amsat.org
=====
```

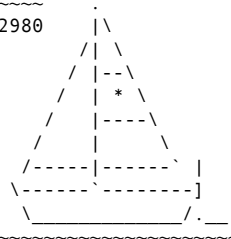
---

## 135. Re: [APRSSIG:3267] APRS in WIN background

From: paul@paccomm.com  
Date: Tue, 12 Sep 95 08:41:09 UTC  
To: aprssig@tapr.org  
Message-ID: <5480@paccomm.com>  
Rendered body type: text/plain

We have some guys here this week writing some other code.  
They use VisualBASIC in a Windows environment and really know what  
they're doing.  
Couple of points. I've seen code fragments. This is one neat language!  
Get a Visual BASIC compiler Bob!  
It runs FAST - almost as fast as C++, but a port from QBASIC would  
be tricky but very do-able.  
Finally, they've been playing with Windows95 right through everything  
and say so far that for developing that it STINKS. Many, many  
machine crashes, etc.  
Maybe the hurdle to Windows (old Windows) is not too bad...give it  
a thought.....

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980
Fax:+1 (813) 872-8696
Not an official authoritative spokesman for PacComm
Don't surf the net, SAIL it!
Captain of S/V "Spindrift", Dunedin, FL.
Catalina 36: Tall rig (58'), Winged Keel (4' 2"),
Full batten main, Boston Whaler dinghy.
PacComm Packet Radio Systems
4413 N. Hesperides St., Tampa, FL 33614-7618



136. Configurations

From: dwetzel@acs.uswest.com
Date: Tue, 12 Sep 1995 08:01:51 -0500
To: aprssig@tapr.org
Message-ID: <0557d9c0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Thanks to the two of you who (Thanks Bill and Bill!) responded to my request for
GPS/TNC configuration info. I'd still like to hear from others who have
successfully integrated GPS with a TNC, either stand alone or with an APRS
computer.

TNC Make and Model:
TNC Firmware Rev:

GPS Receiver Make and Model:
GPS Receiver Firmware Rev:

Interface Converter/Switch Make and Model:
Cable Pinout (sample below)

TNC	GPS
2 ----->	3
7 <-----	7

TNC Cable Connector Type:
GPS Receiver Cable Connector Type:

Comments:

Again, thanks!

73,
Doug
KC7CO

137. Re: [APRSSIG:3272] Configurations

From: philkeys@olympus.net (Phil Keys)
Date: Tue, 12 Sep 1995 08:01:54 -0800
To: aprssig@tapr.org
Message-ID: <v01510102ac7b59313057@[198.133.237.58]>
Rendered body type: text/plain

>Thanks to the two of you who (Thanks Bill and Bill!) responded to my
>request for
>GPS/TNC configuration info. I'd still like to hear from others who have
>successfully integrated GPS with a TNC, either stand alone or with an APRS
>computer.

>
>
>TNC Make and Model:

Kantronics KPC-9612

>TNC Firmware Rev:

6.0 (GPS supported)
>

>GPS Receiver Make and Model:

Garmin GPS-45

>GPS Receiver Firmware Rev:
>
2.41

>Interface Converter/Switch Make and Model:

None

>Cable Pinout (sample below)

>
>Laptop TNC GPS
DB-9 DB-25
> 3 -----> 2 ----->
> 2 <----- 7 <----->
 25 <-----> <-----> coaxial power jack +12VDC
 <-----> <-----> power & data ground
>

>TNC Cable Connector Type:
>GPS Receiver Cable Connector Type:

Garmin data/power cable wired to DB-25 for TNC, DB-9 for computer and to a coaxial power jack.

>
>Comments:

With parallel DB connector GPS can talk to both computer & TNC. Computer can also upload GPS using Gardown7 software. Computer cannot talk to TNC but could if I added a switch to reverse data in & out (pins 2 & 3) to computer.

TNC and GPS are both powered together. KPC-9612 internal jumpers set to connect DB-25 pin 25 to internal power. 12 VDC can be connected either via TNC coaxial power jack or jack attached to Garmin power/data cable. GPS can also be powered without any other connection via jack attached to cable, I use a cigarette lighter plug in the car.

I also use the Radio Shack scanner antenna coaxial cable (with suction cups) to place the GPS-45 antenna on the car roof.

If you want more detail on the connector pins, I can open the connector shells and record them.

Phil Keys
KJ7ET

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

138. Re: [APRSSIG:3273] Re: Configurations

From: dwetzel@acs.uswest.com
Date: Tue, 12 Sep 1995 09:55:42 -0500
To: aprssig@tapr.org
Message-ID: <055984b0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

TNC and GPS are both powered together. KPC-9612 internal jumpers set to connect DB-25 pin 25 to internal power. 12 VDC can be connected either via TNC coaxial power jack or jack attached to Garmin power/data cable. GPS can also be powered without any other connection via jack attached to cable, I use a cigarette lighter plug in the car.

If you want more detail on the connector pins, I can open the connector shells and record them.

Phil Keys
KJ7ET

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

Thanks for the input Phil - this is the first 9612 I've seen; that tnc is becoming very popular around here and I'm sure this config will be of great interest to the local folks as well as the rest of the sig.

Doug
KC7CO

139. Re: [APRSSIG:3271] Re: APRS in WIN background

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 12 Sep 1995 11:00:58 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509121601.LAA24618@solar.cs.tamu.edu>
Rendered body type: text/plain

I'll second the VisualBASIC discussion. I'm developing a lot of software in it and it's not too bad.

I will *NOT* be developing any Windoze 96 code for at least one mre release. >From where I sit, it's still not mature and it's still crashing... Iv ebeen listening to a couple of the "knowledgable" Win97 guys on the linked repeater system I run with talk about how easy it was to install. And reinstall. And do again. Nope. Not yet. I have too much going on to lose time and/or functionality.

As to porting the code: I suspect it'd take about 20 hours to port the APRS stuff based on some experiments I've done with DEFRAG and MAPFIX. They're not ready for prime time as windoze apps, and a long way down the priority list for me, but I've started. I'm looking for larger models so we can get past the silly DOS-induced limits for map sizes.

I also suspect there are faster ways to redraw maps than what we're doing.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

140. Re: 145.800 and packets on .79

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Tue, 12 Sep 1995 11:18:44 -0700
To: amsat-bb@amsat.org
Cc: aprssig@tapr.org
Message-ID: <v01510100ac7b7cbfe433@[128.149.100.84]>

Rendered body type: text/plain

>Text item:

>

> Please not 145.810, for AO-13's beacon is on 145.812

How many hours per day is this going to be a problem, anyway?

-Greg

141. Hints on 145.800 & .79

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Sep 1995 16:24:33 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.950912150515.4786C-100000@greatlakes>
Rendered body type: text/plain

On Tue, 12 Sep 1995, someone responded to my suggestion:

> >Would not 145.810 have been the correct frequency to choose for a 20 KHz
> >wide FM signal from MIR to stay within the satellite subband?
> >
> No. The telemetry beacon on AO-13 is 145.812.

COMMENT:

But AO-13 is visible for 8 hours a day continuous. A MIR downlink on 145.810 only has interference potential with AO-13 for about 7 minutes only 6 times a day (8%) at one ground station. Plus there are other mitigating considerations:

1) MIR IS NOT A FULL PERIOD 100% SIGNAL. A duty cycle of .00005% has been observed at this station. Even under QSO conditions, a duty cycle of 20% or less is probably the maximum. Throw in sleep times and work times, and a duty cycle for a COSMONAUT DXer could rarely peak above about 5%.

2) MIR will only interfere in its FOOTPRINT, which is probably 5% of the footprint of AO-13. Yes each ground station will see the interference, but NOT at the same time worldwide. No AO-13 critical data should be lost. Also AO-13 BEACON telemetry is NOT 100% either...

So it appears to me that accepting an overall 5% x 8% or less than 0.5% potential for loss of AO-13 telemetry at any ONE ground station is a minimum price to pay for spectrum efficiency.

RECOMMENDATION:

In the meantime, stations that are listening for MIR on 145.800 might consider setting their radios to 145.805 initially to minimize downside packet interference, while still being able to hear MIR APPROACHING perfectly clear due to the +3 KHz of up doppler while MIR is incoming.

142. Re: [APRSSIG:3271] Re: APRS in WIN background

From: Barbara Fehner <fehner@cts.com>
Date: Tue, 12 Sep 95 13:32 PDT
To: aprssig@tapr.org
Message-ID: <m0ssc0U-000V2ZC@mailhub.cts.com>
Rendered body type: text/plain

At 08:15 AM 9/12/95 -0500, you wrote:

>

>We have some guys here this week writing some other code.
>They use VisualBASIC in a Windows environment and really know what
>they're doing.
>Couple of points. I've seen code fragments. This is one neat language!
>Get a Visual BASIC compiler Bob!
>It runs FAST - almost as fast as C++, but a port from QBASIC would
>be tricky but very do-able.

Yes, Yes, Yes, By all means go to Visual Basic Bob! We windows users need a full-featured windows APRS version. Windows help screens, pull-down menus, status areas off of the map, and, most importantly, a full resolution map capability up through 800X600-256 colors Super VGA. Also full mouse control of all functions. You can use Visual C++ in selected modules if you need to speed up certain functions. Ham radio has been too slow to go to graphical interfaces but now some satellite tracking programs are being written for windows and are a great improvement. DOS is very limited and clunky and is only useful for outdated computers.

The ability to run in the background is very important even for those who can afford a separate Ham computer. Many people run different applications on several bands at the same time or use helper applications but can not do so with APRS.

Barbara Fehner KK6IB
E-Mail: fehner@cts.com

143. Re: [APRSSIG:3276] Re: 145.800 and packets on .79

From: Bob Hartman <n8mwz@alpha.wcoil.com>
Date: Tue, 12 Sep 1995 17:08:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSD.3.91.950912165826.23556C-100000@alpha.wcoil.com>
Rendered body type: text/plain

On Tue, 12 Sep 1995, Gregory R. LaBorde wrote:

> >Text item:
> >
> > Please not 145.810, for A0-13's beacon is on 145.812
>
> How many hours per day is this going to be a problem, anyway?
>
> -Greg
>

MIR, like other LEO satellites will usually make no more than 6 usable passes over any one location per day for a duration (horizon to horizon) of about 10-12 minutes each. OSCAR 13, on the other hand (beacon on 145.812) is usable up to 14 hours at a time depending on how the orbit relates to your location. It would be a shame to deny someone a chance to work MIR, but the odds are that unless someone starts an APRS program within an hour of MIR passing over, (and we kept keyboard chatting to a minimum) that the most that the "MIR hunters" are going to hear would be one or two brief ID or POSIT packets, unless they were near a high profile wide digi site.

I will be willing to send via private email a schedule of the times that MIR should be over your location if you tell me (privately) a bigger city near you.

Bob Hartman N8MWZ
n8mwz@amsat.org
Tri-State APRS Working Group # 0H89

144. Bug report - mailbox messages

From: dvelez@norfolk.infi.net (Daniel Velez)
Date: Tue, 12 Sep 1995 18:30:14 -0400
To: aprssig@tapr.org
Message-ID: <199509122230.SAA07054@larry.infi.net>
Rendered body type: text/plain

Bob, I've noticed the latest version causes commands and keyboard data from a user connected to my mailbox to show up on the screen as keyboard messages! This is a new one...

73 de Dan
.....
Dan Velez : A00000GA! A00000GA!
EMAIL: dvelez@infi.net :
AMATEUR RADIO: N4WZR@WD4MIZ.VA.USA.NOAM : DIVE! DIVE! DIVE!
.....

145. MY REC ON GPS

From: DDOBBINS@aol.com
Date: Tue, 12 Sep 1995 19:29:16 -0400
To: aprssig@tapr.org
Message-ID: <950912192909_17513868@emout05.mail.aol.com>
Rendered body type: text/plain

My recommendation for a GPS:

The Garmin 45: Nice features, good price (\$300). Can attach ext. mag mount antenna and easy to use (non-std) data cable. Use to have the Garmin 50 when it became affordable, and the 45 is leaps and bounds more capable. Beware - this is a marine GPS, not an aviation unit. Max speed is 99mph for the marine

units. Works just fine w/APRS.

Aloha, Dave

146. Re: [APRSSIG:3281] MY REC ON GPS

From: mark@tetherless.com (Mark Oppenheim)
Date: Tue, 12 Sep 1995 16:51:16 -0700
To: aprssig@tapr.org
Message-ID: <199509122351.QAA14376@gorgor.pa.tetherless.com>
Rendered body type: text/plain

At 06:42 PM 9/12/95 -0500, DDOBBINS@aol.com wrote:

>My recommendation for a GPS:

>

>The Garmin 45: Nice features, good price (\$300). Can attach ext. mag mount
>antenna and easy to use (non-std) data cable. Use to have the Garmin 50 when
>it became affordable, and the 45 is leaps and bounds more capable. Beware -
>this is a marine GPS, not an aviation unit. Max speed is 99mph for the marine
>units. Works just fine w/APRS.

No, it will go up to ~110 MPH...

Mark

Mark Oppenheim
Tetherless Access Limited
2468 Embarcadero Way
Palo Alto, California 94303 USA

Internet: MARK@TETHERLESS.COM
Voice: 415-843-6880 x18
Fax: 415-843-6890

Visit our WWW site! <http://www.tetherless.net/>

147. Re: mailbox messages

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Sep 1995 23:52:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950912235034.10383B-100000@greatlakes>
Rendered body type: text/plain

Check your MONITOR MODES. Something has changed in your TNC that is
allowing it to MONITOR traffic on your PBB5. I dont think it is APRS...

On Tue, 12 Sep 1995, Daniel Velez wrote:

> Bob, I've noticed the latest version causes commands and keyboard data from
> a user connected to my mailbox to show up on the screen as keyboard
> messages! This is a new one...

148. Mapfix15

From: wnolle@ro.com (William Nolle)
Date: Wed, 13 Sep 1995 06:43:05
To: aprssig@tapr.org
Message-ID: <199509131147.GAA03110@sh1.ro.com>
Rendered body type: text/plain

I have a mapmaking question. Can i use the COPY comand to combine files
like in the USGS2MAP with the more detailed GRF CD files?. And if so what
format do i use (The filename).

Bill KE4EER
wnolle@ro.com

149. Re: 145.800 and packets on .79

From: James R Miller <g3ruh@jrmiller.demon.co.uk>
Date: Wed, 13 Sep 1995 07:39:49 GMT
To: amsat-bb@amsat.org
Cc: aprssig@tapr.org
Message-ID: <19950913.073949.56@jrmiller.demon.co.uk>
Rendered body type: text/plain

On Tue, 12 Sep 1995 11:18:44 -0700 "Gregory R. LaBorde" wrote:

> > Please not 145.810, for A0-13's beacon is on 145.812
>

Having some connection with this, I can advise that the *effective* A0-13

beacon frequency is at present 145.8085 MHz on my radio set to USB.

How's that? Well, with the current spacecraft attitude, northern hemisphere stations can only seriously obtain telemetry just after perigee. At this time AO-13 is receding at some 7 km/s, so the doppler shift is quite high.

However it's not going to give a command problem since we can, and as often as not do, switch to the higher powered beacon on 145.985 MHz for telemetry collection and command.

If there is any grumble at all about this, it will come from outside the satellite fraternity; the usual vocal minority who are sore about losing 145.800 MHz (and 145.825 MHz) as repeater output frequencies!

> How many hours per day is this going to be a problem, anyway?

In reality, world-wide, there are intruders in the 2M satellite segment who cause more interference than the proposed operation ever will.

73 - James AO-13 Command Station.

--
=====

James R Miller	E-mail: g3ruh@amsat.org
Cambridge England	Stardate: 1995 Sep 13 [Wed] 0749 utc

=====

150. [APRSSIG:3281] MY REC ON GPS

From: phil.finkle@sid.net
Date: Wed, 13 Sep 95 09:45:53 -0400
To: aprssig@tapr.org
Message-ID: <9509130945.0DPUM00@sid.net>
Rendered body type: text/plain

mni tnx for input, Dave. I have had overwhelming endorsements for the GPS45. I plan to use the unit only on the surface so 99mph fits fine.

sure appreciate ur taking the time to respond.

73, phil k6eid

151. Mudhole

From: phil.finkle@sid.net
Date: Wed, 13 Sep 95 10:08:28 -0400
To: aprssig@tapr.org
Message-ID: <9509131008.0E8VM00@sid.net>
Rendered body type: text/plain

I saw an ad a few weeks ago from an outfit named Mudhole. I think it was in New Jersey. Anyone have a phone number?

Tnx, Phil K6EID

Phil.Finkle@sid.net

152. Re: [APRSSIG:3283] Re: mailbox messages

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Wed, 13 Sep 1995 08:52:32 -0700
To: aprssig@tapr.org
Message-ID: <v01510103ac7ca933923a@[128.149.100.84]>
Rendered body type: text/plain

>On Tue, 12 Sep 1995, Daniel Velez wrote:
>> Bob, I've noticed the latest version causes commands and keyboard data from
>> a user connected to my mailbox to show up on the screen as keyboard
>> messages! This is a new one...

Is it an AEA TNC? AEAs seem to have a mode that allows the PBBS and KEYBOARD streams to intermingle. This has caused problems for several new packet users around here lately.

-Greg

--
Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov

Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
Pasadena, CA 91109 |

153. Re: Hints on 145.800 & .79

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Wed, 13 Sep 1995 09:16:36 -0700 (PDT)
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.OSF.3.91.950913091604.13263B-100000@biggulp.callamer.com>
Rendered body type: text/plain

Dear Bob....Good suggestion that----145.805 thanks de Cliff W6HDO

154. GPS ant proj in QST

From: dbbrumm@mtu.edu (Doug Brumm)
Date: Wed, 13 Sep 1995 16:30:54 -0400
To: aprssig@tapr.org
Message-ID: <199509132030.QAA09171@pobox.ee.mtu.edu>
Rendered body type: text/plain

The October 95 issue of QST contains an article on pages 44-45 by W1GE (Harold R. Ward) regarding building a patch antenna for mobile use. Who will be the first to build another one?

Doug Brumm N800N
dbbrumm@mtu.edu

155. Re: [APRSSIG:3275] Re: APRS in WIN background

From: "Tony Flusche" <tony_flusche@compuware.com>
Date: Wed, 13 Sep 95 13:22:11 EDT
To: aprssig@tapr.org
Message-ID: <199509132034.AA08672@stargate.compuware.com>
Rendered body type: text/plain

I agree it would be nice to run APRS in the background under windoze.
But if the price is that it will no longer run on my Grid 8088 single floppy laptop, no thanks. I don't have the money to upgrade it to something that will run windoze. Especially since I have no other use for a laptop.
Tony AB6BR--Let's go transmitter hunting with APRS.

Reply Separator

156. SAFEX frequencies

From: ilc@cph.ih.dk (Ib L. Christoffersen)
Date: Tue, 12 Sep 1995 09:04:46 +0200
To: amsat-bb@amsat.org
Message-ID: <199509131407.QAA19465@danpost.uni-c.dk>
Rendered body type: text/plain

Hi all,

The selection of the pair 145.200 MHz for uplink and 145.800 MHz for downlink is based upon an old repeater plan for Region 1.
The pair have been used for repeaters - but not any more. Therefor the frequencies should be available (at least in Europe).
This has been discussed a number of times both at the AMSAT-UK Colloquium at the University of Surrey - and in the Region 1 VHF comity. In the end it has been recommended by the Region 1 VHF comity.

The problem with 145.550 MHz at least in Europe have been of such proportions that communications with MIR very often have been impossible.

Hope that the frequency pair can be used without too much inconvenience also in other parts of the World.

73 de OZ1MY of AMSAT-OZ
oz1my@amsat.org

157. Dropped out again?

From: DDOBBINS@aol.com
Date: Wed, 13 Sep 1995 20:24:18 -0400
To: aprssig@tapr.org

Message-ID: <950913202417_98828821@emout06.mail.aol.com>
Rendered body type: text/plain

Havn't seen any SIG traffic for 3 days. Looks like I've been deleted (again)
from the user list. What's going on?

Dave/WH6YC. Aloha

158. FTP'ing USGS Help !

From: n2czf.gate.net@relay.interserv.com
Date: Wed, 13 Sep 1995 17:57:37 -0700
To: aprssig@tapr.org
Message-ID: <199509140057.AA29845@relay.interserv.com>
Rendered body type: text/plain

I would like to hear from anyone who has downloaded data from the USGS FTP site.
I have a new PPP account and now have full internet access which I did not have
before. This internet thing is new to me so I am a bit lost once I get to the
site. I am looking to get the fine detail data of the South FL area so I can
add to my current FLSOUTH.MAP

73's de Rich N2CZF
n2czf@gate.net

159. APRS on 144.180 USB

From: jds7801@mec7804a.dukepower.com
Date: Wed, 13 Sep 1995 21:31:56 -0400
To: aprssig@tapr.org
Message-ID: <9509140131.AA16909@mec7804a.dukepower.com>
Rendered body type: text/plain

Has anyone heard anything about APRS on 2 Meter Sideband?

John D. Snoddy
WA4SSP
jds7801@mec7804a.dukepower.com

160. Re: [APRSSIG:3278] Re: APRS in WIN background

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 13 Sep 1995 23:10:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.950913230846.8297B-100000@laraby.tiac.net>
Rendered body type: text/plain

On Tue, 12 Sep 1995, Barbara Fehner wrote:

>

> Yes, Yes, Yes, By all means go to Visual Basic Bob! We windows users need
> a full-featured windows APRS version. Windows help screens, pull-down
> menus, status areas off of the map, and, most importantly, a full resolution
> map capability up through 800X600-256 colors Super VGA. Also full mouse
> control of all functions. You can use Visual C++ in selected modules if you
> need to speed up certain functions. Ham radio has been too slow to go to
> graphical interfaces but now some satellite tracking programs are being written
> for windows and are a great improvement. DOS is very limited and clunky and
> is only useful for outdated computers.

>

> The ability to run in the background is very important even for those who can
> afford a separate Ham computer. Many people run different applications on
> several bands at the same time or use helper applications but can not do so
> with APRS.

WHOA! What about us poor folk with 8088 laptops for mobile use! (Bob has
one himself)

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

161. RE: [APRSSIG:3296] Re: APRS in WIN background

From: munseyj@america.com
Date: Thu, 14 Sep 95 07:12:12 EDT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.950914071456.munseyj@america.com>
Rendered body type: text/plain

Progress can not stand still for older technology! Let Bob write the best program he can. If
some can not use it then they can stay with the older versions...but others can, and should, move
ahead.

John Munsey KB3GK

E-mail: munseyj@america.com
09/14/95 07:12:12

162. Re: [APRSSIG:3297] Re: APRS in WIN background

From: wjh@ideas.com (William J. Howard)
Date: Thu, 14 Sep 95 08:11:35 EDT
To: aprssig@tapr.org
Message-ID: <9509141211.AA15760@ideas.com>
Rendered body type: text/plain

Have to agree with John, I run a 386 notebook in the mobile, and working a mouse can't be any more difficult than typing on the keyboard, with my head stuck under the dash, on the Washington DC beltway at 55 Mph. By the way I have to fix that -- but that is the essence of progress. The most often heard comment in scientific discovery is not Eureka! but "Hmmm, that's interesting.

>Progress can not stand still for older technology! Let Bob write the best program he can. If
>some can not use it then they can stay with the older versions...but others can, and should, move
>ahead.

>-----
>John Munsey KB3GK
>-----

>E-mail: munseyj@america.com
>09/14/95 07:12:12
>
>
>-----

Bill Howard wjh@ideas.com web - <http://bareta.ideas.com/>
Science Applications International Corporation, Ideas Group
7120 Columbia Gateway Dr., Columbia, MD 21046
Voice:(410)312-2060 Fax:(410)312-2250

163. Windows/VB Version Of APRS

From: jcw@kd4dts.radio.org (John C. Wren)
Date: Thu, 14 Sep 1995 12:47:40 GMT
To: aprssig@tapr.org
Message-ID: <m0stDd6-0003HYC@wa4mei.radio.org>
Rendered body type: text/plain

Sometime ago I started a version of WinAPRS in Visual Basic. It supports lots of cool things, like multiple radios, multiple TNCs, GPS, Compass, Doppler, Zoomable maps, user definable icons, lotsa stuff. Ralph Fowler, N4NEQ, has been (tightfully) hounding me to start beta testing it.

I haven't been interested in working on it lately, but if there is enough interest, I would consider releasing the code into public domain. The only problem is that it uses 2 VBXs from Microhelp, and I can't distribute the development version of them. If some enterprising individual were interested in writing a functional equivalent, that would be great.

It currently works well enough to track objects, but it doesn't expire them after there has been no activity. There is no support for WX operations, as I have no interest in them.

It also supports another protocol besides APRS, which had been intended for a commercial release. I suppose this should be axed out.

It also was intended to support a modem connection, and a TCP/IP connection, via WinSock.

The internal structure is based on message passing queues, which almost all seem to work. I was streamlining it last time I worked on it.

If y'all have any interest in something like this, let me know. I can also post some more details about what it is/was supposed to do.

Hi all,

The selection of the pair 145.200 MHz for uplink and 145.800 MHz for downlink is based upon an old repeater plan for Region 1.

The pair have been used for repeaters - but not any more. Therefore the frequencies

should be available (at least in Europe).

This has been discussed a number of times both at the AMSAT-UK Colloquium at the University of Surrey - and in the Region 1 VHF comity. In the end it has been recommended by the Region 1 VHF comity.

The problem with 145.550 MHz at least in Europe have been of such proportions that communications with MIR very often have been impossible.

Hope that the frequency pair can be used without too much inconvenience also in other parts of the World.

73 de OZ1MY of AMSAT-OZ
oz1my@amsat.org

Maybe if we all can coexist on this plan, Mir will soon carry GPS and we can start tracking it.

Doug
KC7CO

167. Re: [APRSSIG:3299] Windows/VB Version Of APRS

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Thu, 14 Sep 1995 10:50:11 -0400
To: aprssig@tapr.org
Message-ID: <199509141450.KAA13176@dylan.mindspring.com>
Rendered body type: text/plain

John C. Wren--

I'd like to see you keep working on this, but if other interests have sidelined it- please pick the best qualified person and turn it over to them.

If any one wonders what this thing looks like, ask Paul or Gwyn at PacComm- both had an in-person demo last Month in Tampa.

I agree that using the old laptops (I have 1 8088 laptop and 4 286 laptops) is economical, but Bob has stressed the limits of Qbasic. It is a remarkable program, and we should support him in enhancing it for more modern platforms!

Keith (McAPRS) Sproul has a nice program, too. We PC users have an equally good platform available and should utilize it.

I'd like to see the basic formats of things remain the same, so users (like myself, sometimes) with 15 year old technology can at least do the rudimentary things. But I'd buy a new laptop if I could run APRS in a window (with better than VGA resolution drivers loaded) along with other programs I like.

GO BOB (or John, or whoever) GO!!

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: [ftp.mindspring.com/users/rwf](ftp://ftp.mindspring.com/users/rwf) for ATV, GPS, APRS info

APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

t 08:01 AM 9/14/95 -0500, you wrote:

>Sometime ago I started a version of WinAPRS in Visual Basic. It
>supports lots of cool things, like multiple radios, multiple TNCs,
>GPS, Compass, Doppler, Zoomable maps, user definable icons, lotsa
>stuff. Ralph Fowler, N4NEQ, has been (tightfully) hounding me to
>start beta testing it.
>

>I haven't been interested in working on it lately, but if there is
>enough interest, I would consider releasing the code into public
>domain. The only problem is that it uses 2 VBXs from Microhelp, and I

>can't distribute the development version of them. If some
>enterprising individual were interested in writing a functional
>equivalent, that would be great.
>
>It currently works well enough to track objects, but it doesn't expire
>them after there has been no activity. There is no support for WX
>operations, as I have no interest in them.
>
>It also supports another protocol besides APRS, which had been
>intended for a commercial release. I suppose this should be axed out.
>
>It also was intended to support a modem connection, and a TCP/IP
>connection, via WinSock.
>
>The internal structure is based on message passing queues, which
>almost all seem to work. I was streamlining it last time I worked on
>it.
>
>If y'all have any interest in something like this, let me know. I can
>also post some more details about what it is/was supposed to do.
>
>
- John Wren, KD4DTS
>
>
>
>

168. Re: [APRSSIG:3296] Re: APRS in WIN background

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 14 Sep 1995 12:05:58 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509141705.MAA13355@solar.cs.tamu.edu>
Rendered body type: text/plain

Richard Amirault sez:

>
> WHOA! What about us poor folk with 8088 laptops for mobile use! (Bob has
> one himself)

As much as I dislike Windoze, in its many forms and faces, VB offers the ability to clean up the code somewhat. Actually, the right answer would be to recast the code in C and go on. There are plenty of good C's for DOS (OK I'll admit it... that's a contradiction...) but the transformation from DOS to Windoze is one a lot of folks are making and the level of pain induced in going to VB is less than that of going to C.

And, while we're at it, I've one of the Grid laptops, too. And I'll have to keep running an old compile if he does step up. But that's not a hit, since it already does most of what I want/need already.

73, gerry

--

Gerry Creager N5JXS	* SAREX Co-Investigator
gerry@cs.tamu.edu	* A little radio that lets kids talk
	* to astronauts, and smile

169. Re: [APRSSIG:3299] Windows/VB Version Of APRS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 14 Sep 1995 12:28:07 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509141728.MAA13824@solar.cs.tamu.edu>
Rendered body type: text/plain

John C. Wren sez:

>
> Sometime ago I started a version of WinAPRS in Visual Basic. It
> supports lots of cool things, like multiple radios, multiple TNCs,
> GPS, Compass, Doppler, Zoomable maps, user definable icons, lotsa
> stuff. Ralph Fowler, N4NEQ, has been (tightfully) hounding me to
> start beta testing it.

If you'd like some beta-testing and help with code, let me know. I'm doing a fair chunk of VB programming in the GPS arena right now.

73, gerry

--

Gerry Creager N5JXS	* SAREX Co-Investigator
gerry@cs.tamu.edu	* A little radio that lets kids talk
	* to astronauts, and smile

170. unsubscribe

From: "MILLER, STEVEN" <millersr@songs.sce.com>
Date: Thu, 14 Sep 95 10:55:13 PST
To: aprssig@tapr.org
Message-ID: <9508148111.AA811101460@ccgate.songs.sce.com>
Rendered body type: text/plain
[Empty message body]

171. Re: [APRSSIG:3305] Re: Windows/VB Version Of APRS

From: Gary Ratterree <garyr@metronet.com>
Date: Thu, 14 Sep 1995 14:11:40 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509141911.AA19796@metronet.com>
Rendered body type: text/plain

> John C. Wren sez:
> >
> > Sometime ago I started a version of WinAPRS in Visual Basic. It
> > supports lots of cool things, like multiple radios, multiple TNCs,
> > GPS, Compass, Doppler, Zoomable maps, user definable icons, lotsa
> > stuff. Ralph Fowler, N4NEQ, has been (tightfully) hounding me to
> > start beta testing it.
>
> If you'd like some beta-testing and help with code, let me know. I'm doing a
> fair chunk of VB programming in the GPS arena right now.
>
> 73, gerry
> --

I would also be glad to help with this effort. I have done a fair amount of programming in Visual Basic and in Visual C++. One minor question, has anyone checked with Bob about the licensing for this version? He does reserve the right to decode and display APRS packets from any computer program. I'm not sure what his position is on creating new versions of APRS for Windows. I understand that transmitting them does not require a license? So you can send them from "dumb" devices that are stationary?

73,

Gary Ratterree, KI5BP
garyr@metronet.com

172. Re: [APRSSIG:3304] Re: APRS in WIN background

From: Gary Ratterree <garyr@metronet.com>
Date: Thu, 14 Sep 1995 14:17:47 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509141917.AA21167@metronet.com>
Rendered body type: text/plain

> As much as I dislike Windoze, in its many forms and faces, VB offers the
> ability to clean up the code somewhat. Actually, the right answer would be to
> recast the code in C and go on. There are plenty of good C's for DOS (OK I'll
> admit it... that's a contradiction...) but the transformation from DOS to
> Windoze is one a lot of folks are making and the level of pain induced in
> going to VB is less than that of going to C.
>

Visual C++ would have several advantages over VB for this type of project. I would like to see a multiple document interface version, so you could have several maps open at different zoom levels at the same time. I attempted to write a map editor for Windows a while back in C++. The main problem that I had was manipulating the DOS maps at high resolutions (1024x768 or better). They lost their shape in some instances. Maybe if the Macintosh version uses more detailed maps, they would be better for the Windows version. In any event, Windows can handle much larger maps with more colors than the DOS version. This could lead to better maps, or we could try to hold them the same for compatibility.

73,

Gary Ratterree, KI5BP
garyr@metronet.com

173. Possible Rewrite of APRS

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Thu, 14 Sep 1995 14:20:06 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <950914142006.21a07a77@exame2.dseg.ti.com>
Rendered body type: text/plain

Comments re possible rewrite of APRS

1. I'd like to see an upgrade of APRS to run in a more modern environment. However, before we settle on WINDOWS (or WINDOZE or whatever), some observations:
2. One of these days - probably sooner than we expect, we will all be running machines with decent operating systems. Of course, the set of decent operating systems for the PC world is pretty limited. It emphatically does not include DOS, WINDOWS, WINDOWS FOR WORKGROUPS, or WINDOWS 95. It does include Windows NT, and probably (not sure of this) OS/2. If a complete rewrite of APRS is to be done, it should be done understanding the requirements of a decent operating system.
3. Decent operating systems, of course, protect themselves and their users from malicious and/or misbehaving applications. This means that the operating system alone must handle all interrupt processing, all physical I/O operations, and must check that all user requests must be for things that are legitimate. Just imagine - a computer system with NO viruses - and no possibility of viruses!
4. So - any rewrite of APRS should understand that all I/O and interrupt operations will be handled by operating system calls, not directly!
5. The only DOS application I am still running is APRS. I'd love to run it under Windows NT, but Windows NT refuses to let it do the I/O operations itself - consequently APRS will not run at all, foreground or background, under Windows NT.
6. Would like also to put in a plug for PASCAL as the language of choice for a rewrite. C works, of course, but is very difficult to read and understand, even for those who wrote the code originally, after a few weeks or months.
7. In closing: APRS is a WONDERFUL system. I am much impressed by it and by all the work that Bob (and Keith) have put in to get it to its present capability. New and innovative things like APRS are what keeps Amateur Radio fun. Keep up the good work. I'll be glad to pitch in and help where I can - maybe some special coding in PASCAL?

73 Claude Head
K5DTN
chead@exame2.dseg.ti.com

174. Re: APRS in WIN background

From: Barbara Fehner <fehner@cts.com>
Date: Thu, 14 Sep 95 13:26 PDT
To: aprssig@tapr.org
Message-ID: <m0stKrv-000UyHC@mailhub.cts.com>
Rendered body type: text/plain

Some people apparently thought that I was advocating that DOS APRS be dropped in favor of a Windows version. This is not what I was suggesting. Many programs have both a DOS and Windows version and Visual Basic can be used to write for both operating systems. The DOS version is severely limited by the DOS memory limitation but this can be mitigated by the use of disk based overlays for some of the independent functions such as the DX cluster mode. I have used this technique for CP/M and C-64 programs and it works very well. The Windows based version can open up additional functionality due to the extra memory available and provide greater ease of operation through the GUI interface. The availability of high resolution maps that can be zoomed is alone worth the price of admission, ie. reprogramming in Visual Basic. The DOS only platform is dead but like CP/M and the C-64 it will take a little time for it to realize that fact.

Barbara Fehner KK6IB
E-Mail: fehner@cts.com

175. Possible Rewrite of APRS

From: "John G. McMahon" <jgm@phoenix.phoenix.net>
Date: Thu, 14 Sep 1995 15:43:29 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950914154022.6405D-100000@phoenix.phoenix.net>
Rendered body type: text/plain

I would be happy to help in the rewrite effort as time permits.
I do a lot of C, C+, Visual C++ and Visual Basic and teach these at local community colleges.

176. Re: [APRSSIG:3290] GPS ant proj in QST

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 14 Sep 1995 17:32:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950914173001.2632B-100000@greatlakes>
Rendered body type: text/plain

On Wed, 13 Sep 1995, Doug Brumm wrote:

> The October 95 issue of QST contains an article on pages 44-45 by W1GE
> (Harold R. Ward) regarding building a patch antenna for mobile use. Who will
> be the first to build another one?

BETTER YET: Who will add a \$1.65 MMIC chip with 10 dB of gain soldered to the PC board material. It would be powered via the coax as are all GPS antennas. A real SIMPLE project...

177. Re: Windows/VB Version Of APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 14 Sep 1995 18:35:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950914181810.2632J-100000@greatlakes>
Rendered body type: text/plain

Unfortunately if Wren releases his code to the public domain, then my continuing support of APRS is dead. Its a simple fact of life. We all have 24 hours in a day that we must equitably share among work, sleep, hobby and family.

My wife has tolerated my APRS efforts only because the contributions that dribble in are deposited directly in my kids college fund. When that stops, so does my play with APRS. Without the excuse of their college fund, I could no longer justify robbing my kids of their father... hi hi

I have encouraged Wren to retain ownership of his code and sell it at fair market value as a licensee of APRS. Income would encourage his continued efforts. Its a fact of life.

Free toys soon fall to neglect. Take a look in the bottom of your kids toy chest.... Or your old disks....

178. Re: [APRSSIG:3307] Re: Windows/VB Version Of APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 14 Sep 1995 18:51:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950914183850.2632L-100000@greatlakes>
Rendered body type: text/plain

On Thu, 14 Sep 1995, CONCERNING WinAPRS, Gary Ratterree wrote:

> has anyone checked with Bob about the licensing for this version? He does
> reserve the right to decode and display APRS packets from any computer
> program. I'm not sure what his position is on creating new versions of
> APRS for Windows.

APR REPLY: Obviously my slow foot dragging on working on a Windoz version of APRS was because I knew that Wren was working on the program and the last time we had spoken, I thought we had an informal understanding of how to release it under a licensing agreement. I decided to concentrate on the DOS version and see what he produced. His recent message caught me a little off-guard...

I am sitting here with the 9 disk set of Visual Basic all ready to go, just wanted to finish APRtrak first....

I DO WANT A WINDOZ VERSION... hi hi

179. Re: [APRSSIG:3312] Re: GPS ant proj in QST

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Thu, 14 Sep 1995 19:05:04 -0400
To: aprssig@tapr.org
Message-ID: <199509142305.TAA06563@dylan.mindspring.com>
Rendered body type: text/plain

At 04:43 PM 9/14/95 -0500, you wrote:
>
>On Wed, 13 Sep 1995, Doug Brumm wrote:
>
>> The October 95 issue of QST contains an article on pages 44-45 by W1GE
>> (Harold R. Ward) regarding building a patch antenna for mobile use. Who will
>> be the first to build another one?
>
>BETTER YET: Who will add a \$1.65 MMIC chip with 10 dB of gain soldered
>to the PC board material. It would be powered via the coax as are all
>GPS antennas. A real SIMPLE project...
>
>

That's why I breezed past the article. Didn't see any real benefit. we can
already remote our passive antennas. Now if the patch has a preamp.....

MA/Com has a nice 20+ dB gps preamp chip for 8 bucks.

180. RE: [APRSSIG:3299] Windows/VB Version Of APRS

From: "Sadowski, P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Thu, 14 Sep 95 16:20:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <30589BA2@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Unfortunately, my E-Mail system doesn't resolve the original sender
of a message I just get the aprssig address (TAPR). Anyway, I
would appreciate more info about the source code and the VBX function
needed. John (KD4DTS), please send me more info direct (E-Mail).

Thanks in advance

Allan AH6LS <----- a Hawaii callsign
sadowskp@usafcrqs.nellis.af.mil

From: aprssig
To: aprssig
Subject: [APRSSIG:3299] Windows/VB Version Of APRS
Date: Thursday, September 14, 1995 8:01AM

I haven't been interested in working on it lately, but if there is
enough interest, I would consider releasing the code into public
domain. The only problem is that it uses 2 VBXs from Microhelp, and I
can't distribute the development version of them. If some
enterprising individual were interested in writing a functional
equivalent, that would be great.

If y'all have any interest in something like this, let me know. I can
also post some more details about what it is/was supposed to do.

- John Wren, KD4DTS

181. Re: [APRSSIG:3309] Possible Rewrite of APRS

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Thu, 14 Sep 1995 22:09:24 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509150309.WAA24428@solar.cs.tamu.edu>
Rendered body type: text/plain

Claude 995-5040 pager 4541 sez:
>
> Comments re possible rewrite of APRS
>
> 2. One of these days - probably sooner than we expect, we will all be
> running machines with decent operating systems. Of course, the set of
> decent operating systems for the PC world is pretty limited. It
> emphatically does not include DOS, WINDOWS, WINDOWS FOR WORKGROUPS,
> or WINDOWS 95. It does include Windows NT, and probably (not sure of

> this) OS/2. If a complete rewrite of APRS is to be done, it should be
 > done understanding the requirements of a decent operating system.

1. OS/2 is a real operating system. It's also what Windoze 99 purports to be, minus most of the bugs. It's not *nix, but it does handle most everything I've run across appropriately.

beyond that, I wish to second the commentary re: DOS, etc. NT is acceptable, but we'll have to get past NT 3.1 before I'm really convinced.

> 4. So - any rewrite of APRS should understand that all I/O and interrupt
 > operations will be handled by operating system calls, not directly!

The OS/2 programming environment will handle this, and will allow interoperable compiles for other "applications" as well ie., windont interoperability).

> 5. The only DOS application I am still running is APRS. I'd love to run it
 > under Windows NT, but Windows NT refuses to let it do the I/O operations
 > itself - consequently APRS will not run at all, foreground or background,
 > under Windows NT.

Runs fine at my office on NT 3.1. My main problems with NT center around the number of GPFs I've been getting with some of the s/w I have to use, although I suspect Trimble Navigation of poor programming hygiene.

> 6. Would like also to put in a plug for PASCAL as the language of choice
 > for a rewrite. C works, of course, but is very difficult to read and
 > understand, even for those who wrote the code originally, after a few
 > weeks or months.

Not in my worst dreams! C can be readable if you adhere to some straightforward documentation requirements and descriptors. The same sort of thing I enforce on myself for the VB code I'm now writing. It's not difficult, and it's not unreadable, although there is a learning curve.

Let's not resurrect a language that was designed for teaching and misused for production, simply because Borland put a compiler in the hands of the masses.

73, gerry

```
--
Gerry Creager N5JXS          * SAREX Co-Investigator
gerry@cs.tamu.edu           * A little radio that lets kids talk
                             * to astronauts, and smile
*****
```

182. Re: [APRSSIG:3310] Re: APRS in WIN background

From: Gerald J Creager <gerry@cs.tamu.edu>
 Date: Thu, 14 Sep 1995 22:13:54 -0500 (CDT)
 To: aprssig@tapr.org
 Message-ID: <199509150313.WAA24521@solar.cs.tamu.edu>
 Rendered body type: text/plain

Unfortunately, it appears that Micro\$oft has decided to can VB 1.0 for DOS because EVERYONE knows EVERYONE is going to Windoze... And VB 3.0 for Windoze is not capable, in my limited perusals, of producing an executable for DOS... If I'm missing something, please let me know! I've a couple of apps that could do much better without the Windoze interface for stand-alone boxes.

73, gerry

```
--
Gerry Creager N5JXS          * SAREX Co-Investigator
gerry@cs.tamu.edu           * A little radio that lets kids talk
                             * to astronauts, and smile
*****
```

183. Re: [APRSSIG:3309] Possible Rewrite of APRS

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
 Date: Thu, 14 Sep 1995 21:46:32 -0500 (CDT)
 To: aprssig@tapr.org
 Message-ID: <199509150246.VAA27307@crasher2.ttgciitn.com>
 Rendered body type: text/plain

Claude 995-5040 pager 4541 splattered this onto /dev/hda4:
 > this) OS/2. If a complete rewrite of APRS is to be done, it should be
 > done understanding the requirements of a decent operating system.

How about a Unix-based OS?

186. Last Meteor Query

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Sep 1995 00:53:16 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950915002732.4450B-100000@greatlakes>
Rendered body type: text/plain

In reading Stan's column announcing our meteor scatter test, and suggesting the results will be in the next QST, I realized that my REPORT is missing one vital bit of data. My report as previously posted here shows everyone that heard or were heard. (19 and 18 I believe). To gain a complete understanding of the "success" rate, I need the following additional info:

DID you have at least 100 Watts transmitter power * AND *
USED at least a 10 dB gain BEAM antenna * AND *
MADE a CONCERTED effort... * AND *
WERE in a relatively QUIET area with MINIMUM QRM * AND *
STILL did NOT copy any DX meteor packets??

If so, lemme know, but only if you meet all of the above criteria, since they are being used as sort of a benchmark for establishing a minimum meteor scatter station.

The biggest lesson learned for the next event, is that everyone that is NOT a BIG GUN, should listen only, so that more stations CAN hear the packets when they DO get reflected...

BY THE WAY. I am NOT SHOUTING, when I capatilize, hi hi, I am just highlighting key words for those of you who may just scan messages briefly before hitting the DELETE key...

187. Re: [APRSSIG:3318] Re: APRS in WIN background

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Sep 1995 01:09:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950915010535.4450E-100000@greatlakes>
Rendered body type: text/plain

On Thu, 14 Sep 1995, Gerald J Creager wrote:

> Unfortunately, it appears that Micro\$oft has decided to can VB 1.0 for DOS
> because EVERYONE knows EVERYONE is going to Windoze... And VB 3.0 for Windoze
> is not capable, in my limited perusals, of producing an executable for DOS...
> If I'm missing something, please let me know! I've a couple of apps that

WOHAA! You mean that when I use VB, that I can no longer make DOS executable code?!... But I guess that makes sense.... So I'll have to maintain two versions....

188. APRS to Windoze

From: jeff.brenton@espi.com
Date: Fri, 15 Sep 95 01:27:33 -0500
To: aprssig@tapr.org
Message-ID: <9509150127.021SR0C@espi.com>
Rendered body type: text/plain

Just to throw a couple more copper coins into the kettle...

There is at least one software supplier advertising map-drawing components for Borland's latest, Delphi. The advertisements look good, but you know how ads are!

Delphi allows you to do things like define an object, let's call it "AprsObj", which has many properties, such as "label", "latitude", "longitude", "direction", "velocity", "symbol", an array called "heard", and "ExpireTime", amongst others.

You can create new AprsObj instances as new objects are received, and tell existing ones to update their parameters. The objects would have code (methods in Delphi-speak) to plot themselves on the map, along with any velocity vectors. You could select one with the mouse, and it would display extra information about itself, such as temperature, humidity, rainfall, etc., if it's a weather station.

The possibilities are endless. Wish I had the time to do it!

189. Re: [APRSSIG:3324] APRS to Windoze

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 15 Sep 1995 07:21:45 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509151221.HAA00133@solar.cs.tamu.edu>
Rendered body type: text/plain

jeff.brenton@espi.com sez:

>

>

> Just to throw a couple more copper coins into the kettle...

>

> There is at least one software supplier advertising map-drawing
> components for Borland's latest, Delphi. The advertisements look good,
> but you know how ads are!

Any chance you could tell us who it is?

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

190. Possible Rewrite of APRS, (and the maps?)

From: seront@seism1.ess.sunysb.edu (Bernard Seront)
Date: Fri, 15 Sep 1995 10:05:14 -0500
To: aprssig@tapr.org
Message-ID: <9509151404.AA10492@seism1.ess.sunysb.edu>
Rendered body type: text/plain

More important than choosing which language to use, which platform, which system, which coffee maker (an espresso machine for me, please)... It seems to me that some sort of STANDARD for maps as to be define. We already have different maps (not compatible) for mac and dos. We should come out with an unique way of coding maps which make them usable on any platform at any resolution. MacOS, Windows, XWin, are supposed to be device independant for graphics, so should be the maps.

Bernard, KB2TGH.

191. Re: [APRSSIG:3320] Re: APRS on 144.180 USB

From: dwetzel@acs.uswest.com
Date: Fri, 15 Sep 1995 09:41:24 -0500
To: aprssig@tapr.org
Message-ID: <05989450@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Nope, but it sounds interesting, never ran packet on 2M SSB... have the equipment but just starting on a tower at the new QTH for the VHF SSB stuff. I can't join in right at this moment but give me 2 or so months and I hope to have a pair of stacked 13B2's and 100W at 70 ft. from SE Florida (West Palm Beach area).
73's Rich N2CZF@gate.net

This sounds like a great opportunity for the next meteor scatter test. Anybody from the last session agree?

Doug
kc7co

192. Re: [APRSSIG:3326] Possible Rewrite of APRS, (and the maps?)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 15 Sep 1995 12:56:38 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509151756.MAA06347@solar.cs.tamu.edu>
Rendered body type: text/plain

One of the things Keith and I agreed to further discuss (via E-mail) at the DCC was map format compatibility.

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

193. The Software Issue

From: Michael Walker <mwalker@gold.interlog.com>
Date: Fri, 15 Sep 1995 14:03:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199509151803.OAA10294@gold.interlog.com>
Rendered body type: text/plain

I have been watching the rewrite issue and have even contributed to it, but I see a problem here.

The largest one is that Bob and Keith are going to get so annoyed with us, that the project will end.

Both of these gentlemen have contributed a very large amount of time and money to develop a product that a very large number of people have received a large amount of enjoyment from.

Having been on the other end, I ask that you tread lightly about asking for a rewrite of either system. The pressure that both Bob and Keith receive is unbelievable, so I ask that all members please be careful and enjoy help Bob put his kids through school.

Thanks for listening!

73...mike

mwalker@interlog.com
va3mw

194. Re: [APRSSIG:3329] The Software Issue

From: dwetzel@acs.uswest.com
Date: Fri, 15 Sep 1995 12:34:50 -0500
To: aprssig@tapr.org
Message-ID: <059blea0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

I have been watching the rewrite issue and have even contributed to it, but I see a problem here.

The largest one is that Bob and Keith are going to get so annoyed with us, that the project will end.

Both of these gentlemen have contributed a very large amount of time and money to develop a product that a very large number of people have received a large amount of enjoyment from.

Having been on the other end, I ask that you tread lightly about asking for a rewrite of either system. The pressure that both Bob and Keith receive is unbelievable, so I ask that all members please be careful and enjoy help Bob put his kids through school.

Thanks for listening!

73...mike

mwalker@interlog.com
va3mw

Very well said!

BTW - Thanks to both Bob and Keith for all the hard work...

Doug
KC7CO

195. Re: [APRSSIG:3311] Possible Rewrite of APRS

From: WB8SKP@aol.com
Date: Fri, 15 Sep 1995 16:08:08 -0400
To: aprssig@tapr.org
Message-ID: <950915160807_20287012@mail06.mail.aol.com>
Rendered body type: text/plain

Nice to see all the talk about making APRS run on other OS. Now one more to add, Linux (UNIX) OS. I too only use DOS for access to APRS.

Denis G. Barton WB8SKP

196. Re: [APRSSIG:3329] The Software Issue

From: wvolle@ro.com (William Nolle)
Date: Fri, 15 Sep 1995 15:18:06
To: aprssig@tapr.org
Message-ID: <199509152023.PAA14145@sh1.ro.com>
Rendered body type: text/plain

>I have been watching the rewrite issue and have even contributed to it, but I see a problem here.
>
>The largest one is that Bob and Keith are going to get so annoyed with us, that the project will end.
>
>Both of these gentlemen have contributed a very large amount of time and money to develop a
>product that a very large number of people have received a large amount of enjoyment from.
>
Your right, but i think most would be willing to pay a bigger price for such software. I know i for one wouldn't think twice about having a version that i could run under Windows or whatever that would have the capability to have more detailed maps and features that would allow the use of a mouse. It's a simple fact of life either you are willing to pay those fellows to all this work and make it worth while the effort, or don't bother trying to get it done. The thing you have to ask yourself (Would i do this). I can't so i look to others to do the programming and i'm willing to pay them for doing it (Gladly). In other words guys the support has to be more then just talk. Just my 2 cents worth!.

Bill KE4EER

wvolle@ro.com, I hope this will go to the right place this time!!!!..
>Having been on the other end, I ask that you tread lightly about asking for a rewrite of either
>system. The pressure that both Bob and Keith receive is unbelievable, so I ask that all members
>please be careful and enjoy help Bob put his kids through school.
>
>Thanks for listening!
>
>73...mike
>
>mwalker@interlog.com
>va3mw
>

197. MFJ data radio

From: Bob Bruninga <bruninga@nadm.navy.mil>
Date: Fri, 15 Sep 1995 16:33:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950915162538.20996A-100000@greatlakes>
Rendered body type: text/plain

Well, I decided its time to get some radios and called MFJ. Mr PAN agreed that they would sell radios TUNED AND TESTED on 145.79 for only \$14.95 additional. I think the list price for the MFJ-8621 5 watt two meter radio is \$119.95.

He said they are getting production up to speed but that the reason they are not advertising the radio, is that they aren't up to full production yet, and they anticipate a great demand...

I then ordered 5 through my local dealer, and got a commitment of next week!

It will be interesting to see if they are on schedule....

Oh, yes, they were well aware of the individual on this SIG that could not get the radio to tune to 145.79, and said it was because that first batch of xtals for 145.79 did not meet their spec. Is fixed now.... Hope it wasn't too painful for him... Ill let you know how I make out, and maybe I will finally be permanently on the air mobile on 79!

198. Tone Freq. Question

From: GBohner@aol.com
Date: Fri, 15 Sep 1995 16:31:32 -0400
To: aprssig@tapr.org
Message-ID: <950915163131_100446718@emout04.mail.aol.com>
Rendered body type: text/plain

What are the Mark & Space Frequencies for APRS? My digital filter settings for pactor don't work for APRS.

199. Re: [APRSSIG:3288] Re: mailbox messages

From: dvelez@norfolk.infi.net (Daniel Velez)
Date: Fri, 15 Sep 1995 17:39:44 -0400
To: aprssig@tapr.org

Message-ID: <199509152140.RAA22434@larry.infi.net>

Rendered body type: text/plain

Hmmm...it's a KPC-3. I'll do as Bob says and check the monitor modes...

Dan

>>On Tue, 12 Sep 1995, Daniel Velez wrote:

>>> Bob, I've noticed the latest version causes commands and keyboard data from

>>> a user connected to my mailbox to show up on the screen as keyboard

>>> messages! This is a new one...

>

>Is it an AEA TNC? AEA's seem to have a mode that allows the PBBS and
>KEYBOARD streams to intermingle. This has caused problems for several new
>packet users around here lately.

>

>-Greg

>

.....

Dan Velez : A00000GA! A00000GA!

EMAIL: dvelez@infi.net :

AMATEUR RADIO: N4WZR@WD4MIZ.VA.USA.NOAM : DIVE! DIVE! DIVE!

.....

200. Re: [APRSSIDIG:3331] Re: Possible Rewrite of APRS

From: crawford@haven.uniserve.com

Date: Fri, 15 Sep 95 15:14:02 -0700

To: aprssidig@tapr.org

Message-ID: <9509152215.AA0184@pm2-18.TVS.NET>

Rendered body type: text/plain

>Nice to see all the talk about making APRS run on othe OS. Now one more to
>add, Linux (UNIX) OS. I too only use DOS for access to APRS.

On a side note, APRS runs nicely on OS/2 already.

Steve Crawford

crawford@uniserve.com

Amateur Radio Packet: VE7IIF@VE7KIT.#VANC.BC.CAN.NA

Ph/Fax: (604) 826-6295

201. Re: [APRSSIDIG:3334] Tone Freq. Question

From: W2H0B@aol.com

Date: Fri, 15 Sep 1995 23:09:50 -0400

To: aprssidig@tapr.org

Message-ID: <950915230949_20636320@mail02.mail.aol.com>

Rendered body type: text/plain

Mark & Space frequencies aren't so much an APRS thing as they are a Bell
Standard 202 scheme... 1200 and 2200 Hz... they're in every TNC2 as the
"modem part" of the TNC, the other part of course being the PAD... Packet
Assembler Disassembler.

Have fun... 73 de Boyd AR

202. Windoz and APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>

Date: Fri, 15 Sep 1995 23:30:58 -0400 (EDT)

To: aprssidig@tapr.org

Message-ID: <Pine.SUN.3.91.950915231752.22356B-100000@greatlakes>

Rendered body type: text/plain

The Windows version of APRS has been born. Tonight I met with Keith
Sproul the author of MacAPRS and we have made a tentative licensing
agreement so that he can re-compile his C code into a fully supportable
WINDOWS version of APRS. Not only does this take advantage of all the
code that he has developed, but it also assures interoperability, since
we have been working together since I presented the first APRS paper at
the ARRL computer conference several years ago...

Give him some breathing room and the result will be worth it. He is right
now driving back to new Jersey, so I thought I would give you a heads
up. Expect a formal announcement from him in the next few days...

This relieves the pressure on me, so I can continue to support and refine
the DOS versions for those of us too old and tired to upgrade... hi hi

203. [APRSSIDIG:3333] MFJ DATA R

From: jeff.brenton@espi.com
Date: Sat, 16 Sep 95 00:19:07 -0500
To: aprssig@tapr.org
Message-ID: <9509160019.00G4A07@espi.com>
Rendered body type: text/plain

It is interesting that MFJ said their first batch of crystals wasn't "tuned to their spec"... they told me that, when they checked various crystal sets, all the 145.790 sets were fine, but he found _one_ set, for a different frequency, that didn't meet spec...

As for the level of pain, I'm still not on the air on 145.790, because I haven't had time to run the tests to see just where the current crystal set tunes. Transmit is OK, but you need both to be a courteous station! B-)

204. APRS TO WINDOZE

From: jeff.brenton@espi.com
Date: Sat, 16 Sep 95 00:19:10 -0500
To: aprssig@tapr.org
Message-ID: <9509160019.00G5Q07@espi.com>
Rendered body type: text/plain

Gerry Creager asks if I can tell who the map component for Delphi publisher is; unfortunately, I don't keep my programming catalogs here at the house, so I will have to post the company name and other particulars on Monday.

205. The Software Issue

From: SLSC65A@prodigy.com (MR RODNEY G FOWLER)
Date: Fri, 15 Sep 1995 17:47:55 EDT
To: aprssig@tapr.org
Message-ID: <013.01361221.SLSC65A@prodigy.com>
Rendered body type: text/plain

I have been reading with interest over the issue of re-writing the APRS program so it would run in WINDOWS, either 3.1 or "95" and especially "in the background", why would you want it running in the background, you can't see what is happening?

Bob has made it known that he knows nothing about writing software for Windows operation, he is fantastic when it comes to DOS..APRS was not his first venture that was used world-wide.

Why not just go out and visit a few of your friends and see if you can pick up an old 286 and upgrade it to VGA and run Bob's DOS version on that, the monitor can always be turned on and you will be on the front lines of all the action.

Who else do you know that will come out with a new version every week with some new feature added, shucks, I run the MSYS BBS program here and I am lucky if I see a new version every 6 months.. Soon as something hits Bob's brain, it is in APRS and is distributed so everyone else can play..

If you think you would write a better APRS program in something that will run in Windows, then please dream up another type of program, something new and fresh and make it so that everyone runs to your door for a copy of it like Bill Gates did with Windows95! Let Bob and Keith have APRS!

Well, I have said my piece...73 all, de Rod

206. Re: [APRSSIG:3338] Windoz and APRS

From: kb7qqq@nwlinc.com (Sam Roe)
Date: Sat, 16 Sep 1995 06:44:38 GMT
To: aprssig@tapr.org
Message-ID: <199509160638.XAA10854@washington>
Rendered body type: text/plain

On Fri, 15 Sep 1995 22:40:22 -0500, you wrote:

>The Windows version of APRS has been born. Tonight I met with Keith
>Sproul the author of MacAPRS and we have made a tentative licensing
>agreement so that he can re-compile his C code into a fully supportable
>WINDOWS version of APRS. Not only does this take advantage of all the
>code that he has developed, but it also assures interoperability, since
>we have been working together since I presented the first APRS paper at
>the ARRL computer conference several years ago...

Hey Bob,

Been sick for awhile and haven't done much with APRS here in Washington State. Hopefully I can do better in the near future. As to making APRS work under windows, I am not a great Windows fan but for what we are trying to do in Search & Rescue it is just about the only game in town. Would very much like to see a windows version and helping on beta testing if needed. Was wondering if you discussed whether people wanting to upgrade would have to pay full price or an Upgrade price reduction??? Not that I am cheap but I am on a very limited budget.

Thanks for all the great work.

73

207. Re: [APRSSIG:3319] Re: Possible Rewrite of APRS

From: "Jim Lynch" <k4gvo@america.net>
Date: Sat, 16 Sep 1995 05:51:38 +0000
To: aprssig@tapr.org
Message-ID: <199509160958.JAA19651@america.net>
Rendered body type: text/plain

> Date: Thu, 14 Sep 1995 22:35:51 -0500
> Reply-to: aprssig@tapr.org
> From: Ryan Tucker <rtucker@crasher2.ttgcitn.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:3319] Re: Possible Rewrite of APRS

> Claude 995-5040 pager 4541 splattered this onto /dev/hda4:
> > this) OS/2. If a complete rewrite of APRS is to be done, it should be
> > done understanding the requirements of a decent operating system.
>
> How about a Unix-based OS?
>
> > 3. Decent operating systems, of course, protect themselves and their users
> > from malicious and/or misbehaving applications. This means that the
> > operating system alone must handle all interrupt processing, all
> > physical I/O operations, and must check that all user requests must be
> > for things that are legitimate. Just imagine - a computer system with
> > NO viruses - and no possibility of viruses!
>
> Ever seen a virus for, say, Linux? (the freely-available rendition of Unix
> for PC's) Also, it's a true multi-user OS. Right now, there's 8 people
> using my PC ;-)
>
> > 4. So - any rewrite of APRS should understand that all I/O and interrupt
> > operations will be handled by operating system calls, not directly!
>
> Amen. Let the OS handle the dirty work.
>
> > 5. The only DOS application I am still running is APRS. I'd love to run it
> > under Windows NT, but Windows NT refuses to let it do the I/O operations
> > itself - consequently APRS will not run at all, foreground or background,
> > under Windows NT.
>
> APRS won't run under dosemu (the linux dos emulator), which is bad, since I
> have no access to a DOS machine and haven't run APRS since about version 4.0...
>
> > 6. Would like also to put in a plug for PASCAL as the language of choice
> > for a rewrite. C works, of course, but is very difficult to read and
> > understand, even for those who wrote the code originally, after a few
> > weeks or months.
>
> pascal?! Pascal is too unused.
>
> > 7. In closing: APRS is a WONDERFUL system. I am much impressed by it and by
> > all the work that Bob (and Keith) have put in to get it to its present
> > capability. New and innovative things like APRS are what keeps Amateur
> > Radio fun. Keep up the good work. I'll be glad to pitch in and help where
> > I can - maybe some special coding in PASCAL?
>
> Porting to Linux? ;-)
YES! But that's too much to even hope for..... 8^((

Jim Lynch
'86 GL1200I

Fayetteville, GA
k4gvo@america.net

K4GVO
44.36.34.20

208. Re: [APRSSIG:3341] The Software Issue

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 16 Sep 1995 08:56:31 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509161356.IAA20332@solar.cs.tamu.edu>
Rendered body type: text/plain

MR RODNEY G FOWLER sez:

>
> I have been reading with interest over the issue of re-writing the APRS
> program so it would run in WINDOWS, either 3.1 or "95" and especially "in
> the background", why would you want it running in the background, you can't
> see what is happening?

So that it doesn't lose updates when it's in the background, and you have all the data. For one particular application (research) I have it'd be nice to not require the whole machine just to get data via telemetry on which side of the bush the cows are eating, but that's what I've had to plan for. If my grad student could do other "useful" work, it'd help keep him interested over the week at a time he'll be stuck in the middle of nowhere.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

209. (no subject)

From: DDOBBINS@aol.com
Date: Sat, 16 Sep 1995 12:12:53 -0400
Message-ID: <199509161612.MAA29773@emout06.mail.aol.com>
Rendered body type: text/plain

Dave/WH6YC. A fellow amateur interested in APRS has access to either the Magellan 2000 or Magellan Trailblazer for a reasonable price, but in my initial discussions with him it doesn't look like either are APRS compatible. The Magellan 2000 has no data output, and the info he's getting on the Trailblazer doesn't appear to be routine NMEA (GGA, RMC, VTG, etc).

Is anybody using the Trailblazer w/APRS that can clarify this? I'm recommending he switch over to a Garmin, like the 40 or 45, or 90 for aircraft use (he flies too).

Comments? Thanks and Aloha.

210. COMPAQ & Credit Card Fraud

From: DDOBBINS@aol.com
Date: Sat, 16 Sep 1995 12:12:55 -0400
To: aprssig@tapr.org
Message-ID: <950916121254_101024745@mail02.mail.aol.com>
Rendered body type: text/plain

Aloha de Dave/WH6YC.

Interesting event occurred last week. With a new credit card (not used before) I placed a telephone order with Compaq Direct Plus in HOUSTON. Products arrived OK, but several days later my CREDIT CARD company called to inquire if I had just purchased \$15.00 gas from an Exxon in HOUSTON. Of course not, I'm basking in the sun in Hawaii !! They said an unknown person, with a credit card, charged the gas. Since it wasn't me, the credit card co. canx the card and is sending me a new one. They also said I will not be liable for the first \$50, or any other charges that may appear or attempted.

While this has nada to do with APRS, you are my closest friends and I wanted to get the word out - watch for credit card fraud. It's alive and well (at least in HOUSTON).

OK, gotta go bask in the sun some more. Trip to San Diego on Monday and I want to be nice and tanned. Aloha, Dave, HI APRS Coordinator.

211. Re: [APRSSIG:3346] COMPAQ & Credit Card Fraud

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 16 Sep 1995 12:03:24 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509161703.MAA22065@solar.cs.tamu.edu>
Rendered body type: text/plain

Did you report this to a supervisor at Compaq? they really NEED to know this, too.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

212. Re: [APRSSIG:3338] Windoz and APRS

From: Larry Griffin <largriff@onramp.net>
Date: Sat, 16 Sep 1995 12:46:40 -0500
To: aprssig@tapr.org
Message-ID: <199509161746.MAA16921@mailhost.onramp.net>
Rendered body type: text/plain

On Fri, 15 Sep 1995, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
>The Windows version of APRS has been born. [...]
>Sproul the author of MacAPRS and we have made a tentative licensing
>agreement so that he can re-compile his C code into a fully supportable
>WINDOWS version of APRS. [...]

Hallelujah! Best wishes on the efforts for porting over to Windows!

Larry
3337.21N/10149.44W

213. Re: [APRSSIG:3345]

From: calldrin@sierra.net (Chuck Alldrin)
Date: Sat, 16 Sep 1995 10:53:39 -0700
To: aprssig@tapr.org
Message-ID: <199509161756.AA06094@diamond.sierra.net>
Rendered body type: text/plain

I use a Meridian with great sucess. I think the Trailblazer has a few more goodies.. but the data out is the same..I'd recommend him to BUY the unit!!

Chuck Alldrin KN6JS
Chico, CA,
73 and have a :-) day

>Dave/WH6YC. A fellow amateur interested in APRS has access to either
>the Magellan 2000 or Magellan Trailblazer for a reasonable price, but in my
>initial discussions with him it doesn't look like either are APRS compatible.
>The Magellan 2000 has no data output, and the info he's getting on the
>Trailblazer doesn't appear to be routine NMEA (GGA, RMC, VTG, etc).
>
>Is anybody using the Trailblazer w/APRS that can clarify this? I'm
>recommending he switch over to a Garmin, like the 40 or 45, or 90 for
>aircraft use (he flies too).
>
>Comments? Thanks and Aloha.
>
>

214. ANNOUNCEMENT: Windows Version of APRS!!

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 16 Sep 95 14:01:51 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.811274511.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

MacAPRS for Windows

Automatic Packet Reporting System
for Windows

September 16, 1995
NORTH BRUNSWICK, NJ: Mark Sproul (KB2ICI) and Keith Sproul (WU2Z)
authors of MacAPRS, the Macintosh version of Bob Bruninga's (WB4APR)
popular packet radio mapping system announced today that they will be
porting their Macintosh version to Windows. This will be the
official version and has the backing of Mr. Bruninga. The current
plans are for beta release by Christmas 1995 and for the final

release to be at the Dayton Hamvention in May of 1996.

APRS is a multi-faceted system used primarily within Amateur Radio for tracking many different types of things. APRS is used for tracking Weather, for tracking moving cars, boats, weather balloons, and many other things. It can also be used as Graphics Information System for many different aspects of Amateur Radio.

The original version of APRS was developed by Bob Bruninga, WB4APR, to run under DOS and was introduced at the 1992 ARRL Computer Networking Conferences. MacAPRS was released at the Dayton Hamvention in 1994.

The Macintosh version is written entirely in C and will port easily to Windows. Keith and Bob have worked hard at keeping the two versions compatible and by using all of the C code already developed for the Macintosh version, it will ensure complete compatibility on the Windows version. In addition, the two versions will use the exact same map file format so all of the wonderful maps that the Mac users have will be immediately usable by the Windows version.

When asked about future plans, Mark said, "When we finish with the Windows version, we planning on doing an X-Windows version as well."

To keep up to date on the status of MacAPRS for Windows, watch the Web Page (<http://www-ns.rutgers.edu/~ksproul/APRS/index.html>)

The current versions MacAPRS (for Macintosh) and PC APRS are available on:

<ftp://ftp.tapr.org/tapr/SIG/aprssidg/upload>

E-Mail Addresses of the Authors

MacAPRS

Keith Sproul, WU2Z, ksproul@noc.rutgers.edu
Mark Sproul, KB2ICI sproul@ap.org

PC APRS

Bob Bruninga, WB4APR bruninga@greatlakes.nadn.navy.mil

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

215. Re: [APRSSIG:3350] ANNOUNCMET: Windows Version of APRS!!

From: rwf <rwf@mindspring.com>
Date: Sat, 16 Sep 1995 17:00:38 -0400
To: aprssidg@tapr.org
Message-ID: <199509162100.RAA14287@dylan.mindspring.com>
Rendered body type: text/plain

At 01:23 PM 9/16/95 -0500, the Sproul Twins wrote:
>
> MacAPRS for Windows
>
> Automatic Packet Reporting System
> for Windows
>

Glad to see it, thanks guys, including especially Bob!
I had hoped that the version being developed here would formulate into something...
it worked pretty well, but when an author (and I mean of the failed earlier Windows attempt --
NOT Bob Bruninga) cancels a project- I'm glad the project can be completed by someone else.
I think porting the C code over is a great idea. Wonder why it wasn't thought of before?
Could it have been a little "Mac Myopia? :)) <big big grin and wink with tounge in cheek>

Anyway, good luck.

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com

Atlanta, GA USA

Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info

FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info

APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

216. Re: [APRSSIG:3351] Re: ANNOUNCEMENT: Windows Version of APRS!!

From: jlauber@ix.netcom.com (John Lauber)
Date: Sat, 16 Sep 1995 15:30:25 -0700
To: aprssig@tapr.org
Message-ID: <199509162230.PAA17554@ix9.ix.netcom.com>
Rendered body type: text/plain

ralph...i think i forgot to send you my email address per your request
a couple of weeks ago. Also, note that my home phone area code also
changed to 770 671-1492

And I am delighted to see that Keith and Bob have gotten
together....that is a significant step forward....jkl

217. Re: [APRSSIG:3332] Re: The Software Issue

From: wleox@ix.netcom.com (Yves Feder)
Date: Sat, 16 Sep 1995 20:52:47 -0400
To: aprssig@tapr.org
Message-ID: <199509170053.RAA18863@ix4.ix.netcom.com>
Rendered body type: text/plain

>>I have been watching the rewrite issue and have even contributed to it,
but I see a problem here.
>>
>>The largest one is that Bob and Keith are going to get so annoyed with us,
that the project will end.
>>
>>Both of these gentlemen have contributed a very large amount of time and
money to develop a
>>product that a very large number of people have received a large amount of
enjoyment from.
>>

I'd like to add my support to Bill's (and others') comments. As an APRS
user eagerly awaiting all of Bob's rewrites and playing with the new
versions, since I'm not able to contribute any significant programming
efforts, I would certainly be glad to contribute towards what it may take to
generate new and really interesting versions such as for Windoze, etc.

And certainly many, many thanks to Bob and Keith for the fantastic efforts
and work they're doing on
this stuff!! This should not be taken for granted and if monetary support is
useful, we as users should
chip in, at least IMHO.

73
Al W1EOX
Yves A. (Al "Al") Feder
wleox@ix.netcom.com
Home of "Tiny Radio Theatre"(tm) AND
Eric, the Mad Megalomaniac Bull Cavy

218. APRS in background

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Sep 1995 01:25:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950917011133.24787F-100000@greatlakes>
Rendered body type: text/plain

Now that the pressure is relieved for Windoz, and while sweeping the
driveway, I was pondering a way to bandaid APRS to help it run in the
background better. Someone said that the main problem was that APRS
wanted to write to the graphics screen in 16 color mode but that the
rest of the WINDOWS applications wanted to be in higher modes. or
something like that.. Here is the thought:

If I let the F10 key be a "DOZE" toggle that told APRS to clear the screen and to stop updating posits to the map, and writing to the bottom line, then it would run there with a black screen, but still do everything. Then when you told WINDOZ to place it in the background, would it go there more amicably? If so, I could make this change trivially in the next version to see if it helped.

When you brought it to foreground again, just hit space bar to update the map with everything that had been added to the "lists" while you were away...

219. MFJ DATA RADIO

From: jeff.brenton@espi.com
Date: Sun, 17 Sep 95 03:40:04 -0500
To: aprssig@tapr.org
Message-ID: <9509170340.055HZ02@espi.com>
Rendered body type: text/plain

Additional on my MFJ 8621 experience...

Finally got some time to do some tuning the old fashioned way, by ear. The instructions provided by MFJ did not work for the receive crystal supplied, so I got out a speaker and my HT, and tuned for maximum quieting and clarity on a touch tone, broadcast on 145.790. The radio now functions, although I have not been able to check its sensitivity. It did, however, copy packets off the air after tuning.

220. Re: [APRSSIG:3354] APRS in background

From: calldrin@sierra.net (Chuck Alldrin)
Date: Sun, 17 Sep 1995 09:33:00 -0700
To: aprssig@tapr.org
Message-ID: <199509171635.AA26254@diamond.sierra.net>
Rendered body type: text/plain

Bob, I was thinking of calling you to suggest something like this. If the program could run with all video disabled, then may it would work OK! There is no need to see any thing until the screen is visible, hi, hi Thanks again for all your work. Many times you have been asked to do things for people that never say "THANKS"... I'm saying THANKS :-)

Chuck Alldrin KN6JS Chico,CA

>Now that the pressure is relieved for Windoz, and while sweeping the >dreiveway, I was pondering a way to bandaid APRS to help it run in the >background better. Someone said that the main problem was that APRS >

221. How do I tell APRS about AEA TNC?

From: philkeys@olympus.net (Phil Keys)
Date: Sun, 17 Sep 1995 11:29:55 -0800
To: aprssig@tapr.org
Message-ID: <v01510101ac8226bd1bdd@[198.133.237.49]>
Rendered body type: text/plain

I have perused all the APRS read.me files. They tell me that I should tell APRS that I am using an AEA PK-232 TNC so that it will use the right initialization file. But how do I tell APRS that I have an AEA TNC?

Confused, but perservering.

Phil Keys
KJ7ET

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

222. Re: [APRSSIG:3357] How do I tell APRS about AEA TNC?

From: DKAPLAN@netins.net (David Kaplan)
Date: Sun, 17 Sep 1995 13:50:49 -0500
To: aprssig@tapr.org
Message-ID: <199509171851.NAA30545@sys1.tapr.org>
Rendered body type: text/plain

>I have perused all the APRS read.me files. They tell me that I should tell >APRS that I am using an AEA PK-232 TNC so that it will use the right >initialization file. But how do I tell APRS that I have an AEA TNC? >

When you start APRS it asks you if you have a TAPR, KAM or AEA TNC. If you

hvae paid you fee to Bob's kids fund you can then save that config so it (APRS) does not ask you each and every time.

73, Dave
>

223. MacAPRS version 2.0

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sun, 17 Sep 95 16:29:52 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.811369792.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

MacAPRS 2.0 is now up on ftp.tapr.org

This version has been long in comings, and has a lot of new things in it. The last release of MacAPRS was on June 29th. Nobody can accuse me of too many releases, hi hi...

New features in MacAPRS 2.0

- * Enhanced Call-Book CD-ROM support
The following CDs are now supported
 - * Buckmaster Old version, US Only (ALL Buckmaster CDs)
 - * Buckmaster World pre-1995
 - * Buckmaster World, current. This is THE BEST!! and MOST data
 - * Percon
 - * Amsoft
 - * QRZ
 - * FCC Data from Internet

In a couple cases, you have to make an Index file, but the ability to do that is right in the program.
- * With all of these data bases, you can open a CALLBOOK LIST window that shows ALL of the call signs in the data base. This list is searchable by call-sign (only at this time) and you can scroll through it, then option-double-click and it will show you where that person lives (see below on option-double-click)
- * If you have one of the above data bases, you can create another Index file that enables the following:

You can click-drag a region, say for example, 20 miles radius from your home, it will search through the entire data base and give you a list of ALL the hams that live in that area. Then you can SAVE that list to a tab-delimited file that is importable into any database program such as FileMaker.!!

THIS IS WAY COOL! And it takes less than 10 seconds on a 25hmz 68040. and about a second!!! on a PPC

You can create as many different SELECTED CALL SIGN LISTS as you want and have them all open at the same time.
- * In either list, the FULL callbook list, or the SELECTED STATION LIST, it displays call-signs with expired licenses in RED and callsigns whose birthday is that day in BLUE..
- * You can SAVE from any of the station lists, i.e. ONLY the weather stations, or all stations, or all flagged stations etc. This SAVE creates a list of POSITION REPORTS that is reloadable back into the program.
- * From ALL LISTS, (Station lists, Airport List, DX List, etc etc) You can OPTION-DOUBLE-CLICK, or OPTION-RETURN and it will search through all currently open maps, find the BEST (highest magnification) map that that item (station, airport, DX country, etc) can be shown on and it switches TO that map, and shows you where it its.

In the case of the CALL BOOK list, it will then SPEAK the call and name to you (If you have the speech manager loaded)

- * If you have the Speech Manager, you can select between NORMAL letters for call signs, i.e. Double-you You Two Zee, or you select Phonetic calls, i.e. Whiskey Uniform Two ZuuLuu
 - * When you quit out of the program, it automatically saves the Packet Statistics and the Weather data (if you have a WX station). When you start the program back up, it will re-load these data files, that way you don't loose the fancy graphs when you quit and re-start.
 - * It now supports the Heathkit-5001 weather station, However, this has NOT been tested with a real unit. If you have a Peet Bros Weather Station, make sure you go to the Weather Settings and select it, where-as before, you did not have to do this.
 - * It supports Wind Gust from the Peet U-II and from the Heathkit. This info is transmitted in the weather info and displayed in the Weather Station List.
 - * In the past, Option-Double-Click on a location in a map-window takes you to the NEXT smaller map that contains that point. Shift-Option-Double-Click takes you back UP to the next BIGGER map.
- In addition to all of that:
Control-Option-Double-Click takes you to the SMALLEST map that contains the point that you double-clicked on. This is good for going from the Entire-US map to your local state map in one shot, instead of having to do it in a few steps, or having to go to the map menu and selecting the map by name.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Now before you to excited on the next item, realize that:

A: This is why it is a major jump from 1.5.5 to 2.0

B: This is working, but in its EARLY stages, and has a ways to go!

MacAPRS now supports BIT-MAP maps, i.e.

- * a scanned in nautical chart
- * a screen-dump from Delorme
- * a fancy map TIFF file from the USGS
- * Any map you want to scan in on your scanner.

In the near future, I will put up some test-maps on ftp.tapr.org that have the correct EXTRA data that makes this work.

MacAPRS needs a special RESOURCE attached to a normal PICT file to make all of this magic work.

Steve Dimse (K04HD) from Florida is working on a simple utility to add the coordinates to the files. In the near future, MacAPRS will have this capability too.

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www.ns.rutgers.edu/~ksproul/	908 821-4828 Home

224. Re: [APRSSIG:3357] How do I tell APRS about AEA TNC?

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sun, 17 Sep 1995 16:47:26 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950917164559.20574A-100000@pinegov>
Rendered body type: text/plain

On Sun, 17 Sep 1995, Phil Keys wrote:

> I have perused all the APRS read.me files. They tell me that I should tell
> APRS that I am using an AEA PK-232 TNC so that it will use the right
> initialization file. But how do I tell APRS that I have an AEA TNC?
>
> Confused, but perservering.
>
> Phil Keys
> KJ7ET
>
> philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
> Software Consultant - specializing in software safety & SQA
> Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N
>
>
>

Upon initial startup, the program asks you what kind of TNC you have...
AEA, TAPR, or KAM...answer AEA...

73 and good luck,
de Kevin Heyboer KD4UJR
your HF <-> VHF GATEway in Seminole, Florida

225. Re: [APRSSIG:3354] APRS in background

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Sun, 17 Sep 1995 14:54:04 -0700
To: aprssig@tapr.org
Message-ID: <199509172154.OAA16330@ix5.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>Now that the pressure is relieved for Windoz, and while sweeping the
>dreiveway, I was pondering a way to bandaid APRS to help it run in the
>background better. Someone said that the main problem was that APRS
>>wantedt to write to the graphics screen in 16 color mode but that the
>rest of the WINDOWS applications wanted to be in higher modes. or
>something like that.. Here is the thought:
>
>If I let the F10 key be a "DOZE" toggle that told APRS to clear the screen
>and to stop updating posits
>to the map, and writing to the bottom line, then it would run there with
>a black screen, but still do everything. Then when you told WINDOZ to
>place it in the background, would it go there more amicably? If so, I
>could make this change trivially in the next version to see if it helped.
>
>When you brought it to foreground again, just hit space bar to update the
>map with everythign that had been added to the "lists" while you were away...

I'm not a programmer, but I have a lot of experience with running landline BBS systems (shameless plug: The Frequency Forum BBS, Vienna, VA 703/207-9622). I've run systems that were written in Quickbasic, and in C. For most of the life of my BBS, I've run it in a multitasking environment using either Desqview or OS/2. This allows me to run more than one line on the same computer. Of course, it's important that the active tasks give up timeslices to the system when they don't need them.

There is a way to make a program aware of the multitasking environment, if one is in use. My current software can tell if it is being run standalone, or under OS/2, Windows or Desqview. Unless one node is actually doing something, sending data out the serial port, etc., it has no effect on the operation of the other nodes. I have to assume that this is related to the way the program responds to various system events and interrupt requests.

The effect of running a non-multitasker aware program on the system is quite noticeable. APRS is a good example. APRS behaves as if it needs always needs full access to the CPU's time. Other programs that are not aware of the multitasking environment behave in a similar manner.

OS/2, and to some extent, Windows, have the capability to detect when a DOS program is idle and reassign its time to other tasks, but it seems that APRS is never really idle.

My point: there must be a way to added multitasker awareness to APRS. I wish I could be more help, but not being a programmer I can't really give any more details. Maybe someone else here can.

Personally, I have never had any problems running APRS in the background other

Jack

gain
widespread acceptance. The old DOS version is still great for use on simple
8086
laptops for mobile use. Windoze version will be nice for WHizBang ,but will
take up
a lot more Horsepower. What happened to Bob's original idea of Keep It
Simple?
Good luck on the win endeavor anyhow, but don't lose the original reason for
APRS.
N3MKP

229. Re: [APRSSIG:3362] Port Switching

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Sep 1995 20:18:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950917201642.26459B-100000@greatlakes>
Rendered body type: text/plain

On Sun, 17 Sep 1995, Mike Walker wrote:

> When in dual port HF mode, how do I handle the port switching on my
> AEA DSP-2232? I can switch the streams manually by using O,C,T, but
> if I do Control, Bands, 2, does it give me the ability to transmit on
> either port?

In KAM mode, aprs will shift to HF using ~a and shift to VHF using |a.
Some TNC's use a single stream switch character to "TOGGLE" back and
forth. They will NOT work, because APRS would never know which mode they
were in (without a little more code, which I have never writtennnn)

230. Re: APRS in background

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Sep 1995 20:15:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950917201145.26459A-100000@greatlakes>
Rendered body type: text/plain

APRS has LOADS of free time when it is sitting there. All it is doing is
sitting in a tight loop checking the keyboard for a character and
cheeking the serial port. Since both have buffers, there is no urgency
other than once every coupla seconds to give APRS some CPU time... If
someone knows how to (in quick basic),
tell the operating system "take me, im done for a while", I could add
that in a flash....

231. Re: [APRSSIG:3366] Re: APRS in background

From: mfarver@execpc.com (Mark Farver)
Date: Sun, 17 Sep 1995 20:45:26 -0500
To: aprssig@tapr.org
Message-ID: <199509180145.UAA04588@sys1.tapr.org>
Rendered body type: text/plain

>APRS has LOADS of free time when it is sitting there. All it is doing is
>sitting in a tight loop checking the keyboard for a character and
>cheeking the serial port. Since both have buffers, there is no urgency
>other than once every coupla seconds to give APRS some CPU time... If
>someone knows how to (in quick basic),
>tell the operating system "take me, im done for a while", I could add
>that in a flash....

This sounds like what you need Bob, I don't know how to call interrupts in
QBasic but it shouldn't be too hard. This is cut right from the Interrupt
List compiled by Ralf Brown. Someone with more programming experience
should look this over though.

Mark
KB9JMJZ

INT 2F - MS Windows, DPMI, various - RELEASE CURRENT VIRTUAL MACHINE TIME-SLICE
AX = 1680h
Return: AL = status
00h if the call is supported
80h (unchanged) if the call is not supported
Notes: programs can use this function in idle loops to enhance performance
under multitaskers; this call is supported by MS Windows 3.0, DOS 5+,
DPMI 1.0+, and in OS/2 2.0+ for multitasking DOS applications
does not block the program; it just gives up the remainder of the time
slice
should not be used by Windows-specific programs

when called very often without intermediate screen output under WIN 3+,
the VM will go into an idle-state and will not receive the next slice
before 8 seconds. This time can be changed in SYSTEM.INI through
"IdleVMWakeUpTime=<seconds>". Setting to zero results in a long wait.
SeeAlso: INT 15/AX=1000h,INT 15/AX=5305h,INT 21/AH=89h,INT 7A/BX=000Ah

232. Re: [APRSSIG:3366] Re: APRS in background

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Sun, 17 Sep 1995 21:10:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509180210.VAA08184@solar.cs.tamu.edu>
Rendered body type: text/plain

In Visual basic, that's straight forward.

```
do
    dummy=doevents()
while not {test}

can't speak to QB, but I don't think it's as cooperative.
```

73, gerry

```
--
Gerry Creager  N5JXS          * SAREX Co-Investigator
gergy@cs.tamu.edu          *   A little radio that lets kids talk
                           *   to astronauts, and smile
*****
```

233. help

From: mfarver@execpc.com (Mark Farver)
Date: Sun, 17 Sep 1995 21:16:29 -0500
To: aprssig@tapr.org
Message-ID: <199509180216.VAA05188@sys1.tapr.org>
Rendered body type: text/plain

[Empty message body]

234. Re: [APRSSIG:3350] ANNOUNCEMENT: Windows Version of APRS!!

From: moyers@ibm.net
Date: Sun, 17 Sep 95 22:41:51
To: aprssig@tapr.org
Message-ID: <9509180550.AA0064@localhost>
Rendered body type: text/plain

> The Macintosh version is written entirely in C and will port easily
> to Windows. Keith and Bob have worked hard at keeping the two
> versions compatible and by using all of the C code already developed
> for the Macintosh version, it will ensure complete compatibility on
> the Windows version. In addition, the two versions will use the
> exact same map file format so all of the wonderful maps that the Mac
> users have will be immediately usable by the Windows version.

Sounds good so far. Will the map making utilities be ported over and
available for the beta test and/or general release dates?

> When asked about future plans, Mark said, "When we finish with the
> Windows version, we planning on doing an X-Windows version as well."

According to IBM, OS\2 code is about 75 to 90 % compatible with WIN code,
this was done in an tempt to help OS\2 to OPEN ARCHETECTURE. If this proves
true would it be to much to request an OS\2 version?

73,
John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

235. Re: [APRSSIG:3366] Re: APRS in background

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Sun, 17 Sep 1995 19:27:05 -0700
To: aprssig@tapr.org
Message-ID: <199509180227.TAA19865@ix7.ix.netcom.com>
Rendered body type: text/plain

You wrote:

```
>
>APRS has LOADS of free time when it is sitting there. All it is doing is
```

>sitting in a tight loop checking the keyboard for a character and
>checking the serial port. Since both have buffers, there is no urgency
>other than once every couple seconds to give APRS some CPU time... If
>someone knows how to (in quick basic),
>tell the operating system "take me, im done for a while", I could add
>that in a flash....

I'm sure the "tight loop" is the issue. There has to be a way to get APRS to remain idle except for a quick check for keyboard or serial activity.

I could get you the source for RBBS, the Quickbasic BBS I used to run. I think they had multitasker-awareness down pretty good. Let me know if you think that would help.

Jack

236. Who is N1VTC

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Sep 1995 23:11:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950917230821.27172B-100000@greatlakes>
Rendered body type: text/plain

My appologies to the net. , but, someone wrote me about N1VTC having a bad V#, I must have read it with the D key.. hi hi HIs # should be 57734, I had read his call as a VTG vice VTC...

S0rry for the bandwidth...

237. Re: [APRSSIG:3354] APRS in background

From: rwf <rwf@mindspring.com>
Date: Mon, 18 Sep 1995 00:42:25 -0400
To: aprssig@tapr.org
Message-ID: <199509180442.AAA12187@dylan.mindspring.com>
Rendered body type: text/plain

Bob

"Doze" toggle sounds good, if it works. Never tried to run it in a window so not sure if that is all that needs to be done.

I'd like to run APRS at work while doing other, less important things (like my REAL job).

Question about the F6 "QRT" toggle. Does it change your heading and speed info to QRT on the very next transmission or is there some type of delay?

And what is the best way to freeze the pos report? I don't want to have the car in the driveway beaconing my home position for midnight visitors. My icon as sent by the Shack APRS is 3 miles away from the real loaction. How can I keep the GPS going, keep APRS going in the car, but FREEZE the position a couple of miles before getting home.

Yes, call me paranoid, but I have had the visitors and don't want them again...

Ralph

238. Re: [APRSSIG:3372] Who is N1VTC

From: WA1YKN@aol.com
Date: Mon, 18 Sep 1995 02:08:22 -0400
To: aprssig@tapr.org
Message-ID: <950918020822_102142417@mail02.mail.aol.com>
Rendered body type: text/plain

Hi Bob,

That was I, WA1YKN... I know the "D" key only too well Hi Hi...

TNX fer the quick response.... 73, Mitch, WA1YKN...

239. Re: [APRSSIG:3365] Re: Port Switching

From: "Jim Lynch" <k4gvo@america.net>
Date: Mon, 18 Sep 1995 05:32:36 +0000
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <199509180939.JAA02901@america.net>
Rendered body type: text/plain

> Date: Sun, 17 Sep 1995 19:24:26 -0500
 > Reply-to: aprssig@tapr.org
 > From: Bob Bruninga <bruninga@nadn.navy.mil>
 > To: aprssig@tapr.org
 > Subject: [APRSSIG:3365] Re: Port Switching

>
 > On Sun, 17 Sep 1995, Mike Walker wrote:
 >
 > > When in dual port HF mode, how do I handle the port switching on my
 > > AEA DSP-2232? I can switch the streams manually by using O,C,T, but
 > > if I do Control, Bands, 2, does it give me the ability to transmit on
 > > either port?
 >
 > In KAM mode, aprs will shift to HF using ~a and shift to VHF using ja.
 > Some TNC's use a single stream switch character to "TOGGLE" back and
 > forth. They will NOT work, because APRS would never know which mode they
 > were in (without a little more code, which I have never writtennnn)
 >
 >
 The PK-900 and I suspect the 2232 also use a |0 to select port 1
 (logical channel 0) and |A to select port 2 (also logical channel 0).
 It sure would be nice if Bob could support these find TNC's also.
 Note that either port can be hf or vhf on these boxes.

Jim.
 Jim Lynch Fayetteville, GA K4GVO
 '86 GL1200I k4gvo@america.net 44.36.34.20

240. Re: [APRSSIG:3366] Re: APRS in background

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
 Date: Mon, 18 Sep 1995 07:05:38 -0500 (CDT)
 To: aprssig@tapr.org
 Message-ID: <199509181205.HAA25862@crasher2.ttgciitn.com>
 Rendered body type: text/plain

Hmmm... there's a programming resource out there on how to release time to
 Windows, but it was written when Windows 3.0 was new, and I haven't seen
 anything since.

What I did with DesqView is put APRS at a rather low priority compared to the
 rest of the stuff. It still worked, and didn't drag my poor little 386sx20
 into the ground as much.

Bob Bruninga splattered this onto /dev/hda4:
 >
 > APRS has LOADS of free time when it is sitting there. All it is doing is
 > sitting in a tight loop checking the keyboard for a character and
 > cheking the serial port. Since both have buffers, there is no urgency
 > other than once every coupla seconds to give APRS some CPU time... If
 > someone knows how to (in quick basic),
 > tell the operating system "take me, im done for a while", I could add
 > that in a flash....
 >

--
 ---Ryan Tucker ttgciitn.com owner
 --rtucker@ttgciitn.com nether.net irc administrator
 -http://www.netins.net/showcase/rtucker netins.net user development group
 NetINS 28.8kb/sec 1-800 dialup -- 15 cents a minute -- 1-800-546-6587

241. Re: [APRSSIG:3373] Re: APRS in background

From: Bob Bruninga <bruninga@nadn.navy.mil>
 Date: Mon, 18 Sep 1995 10:17:29 -0400 (EDT)
 To: aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.950918101610.2903A-100000@greatlakes>
 Rendered body type: text/plain

I think QRT does it at that instant.

For the tracker in the car, turn off the radio...

On Sun, 17 Sep 1995, rwf wrote:

> Bob
 >
 > "Doze" toggle sounds good, if it works. Never tried to run it in a window so

> not sure if that is all that needs to be done.
> I'd like to run APRS at work while doing other, less important things (like
> my REAL job).
>
> Question about the F6 "QRT" toggle. Does it change your heading and speed
> info to QRT on the very next transmission or is there some type of delay?
>
> And what is the best way to freeze the pos report? I don't want to have the
> car in the driveway beaconing my home position for midnight visitors.
> My icon as sent by the Shack APRS is 3 miles away from the real loaction.
> How can I keep the GPS going, keep APRS going in the car, but FREEZE
> the position a couple of miles before getting home.
>
> Yes, call me paranoid, but I have had the visitors and don't want them again...
>
>
> Ralph
>
>
>
>
>
>

242. Re: [APRSSIG:3350] ANNOUNCEMENT: Windows Version of APRS!!

From: JAgrelo@aol.com
Date: Mon, 18 Sep 1995 10:59:13 -0400
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <950918105905_22367472@emout05.mail.aol.com>
Rendered body type: text/plain

I'm sure you had to grit your teeth on this one Keith, remembering what your T-shirt said at Dayton 94. It will be a pleasure to offer WinAPRS for our DF stuff (sssshhhhh), truly pulg-n-play all the way.

I will let you know when it's a good time for us to meet. Thank you for all your work on APRS.

73 Joe N200C

Agrelo Engineering

243. Re: [APRSSIG:3338] Windoz and APRS

From: JAgrelo@aol.com
Date: Mon, 18 Sep 1995 11:03:06 -0400
To: aprssig@tapr.org
Message-ID: <950918110306_22370044@emout06.mail.aol.com>
Rendered body type: text/plain

The DF ads will look great with WinAPRS offered in it, let's talk about that when Win is ready.

Thank you for giving birth to WinAPRS. I for one really appreciate it.

73 Joe N200C

244. Re: [APRSSIG:3350] ANNOUNCEMENT: Windows Version of APRS!!

From: jan@archimedes.vislabs.navy.mil (Jan A. Barglowski)
Date: Mon, 18 Sep 1995 08:28:39 -0700
To: aprssig@tapr.org
Cc: ksproul@hardees.Rutgers.EDU, sproul@ap.org
Message-ID: <v01520d00ac82d85dddc5@[129.131.31.10]>
Rendered body type: text/plain

Keith wrote:

>
> MacAPRS for Windows
>
> Automatic Packet Reporting System
> for Windows
>

>-----
>September 16, 1995

and etc.

But he also wrote, much earlier...

(Dated 4/18/95)

>As most of you know, I write the MACINTOSH version of APRS, called MacAPRS.

>This program is fully compatible with the PC version as far as the on-air
>protocols go. Bob and I keep in touch and make sure that anything done over
>the air is coordinated between us.
>
>Over the past few weeks, there has been a LARGE discussion about how difficult
>it is to create good maps on the PC. Those that have seen BOTH the PC version
>and the MAC version have been very jealous of the Mac's Map creating
>capabilities.
>In fact, several people have asked "Why don't you create PC maps?" or
>"I wish I could create maps that easily!"
>
>
>Well.. I am working on it!!!!!!!

And who's seen this MacMapMaker program? I was told that I could help beta
test in late May, then early June, and haven't heard anything further. I
have since started developing my maps on the PC and experimenting with the
PC version of APRS, a strange thing considering I really do like my Mac :-)

There are just a few things troubling me about this:

- The software is promised much earlier than delivered by Keith. I know
this is a hobby, but it's cruel to set an unrealistic delivery date. I
wouldn't exactly hold my breath waiting for this PC Windoze version of
APRS.
- The Mac maps, while higher in detail, are somewhat painful to maneuver
around, ie. no zoom out, no scroll sideways. The PC maps are quite easy
to get around compared to this.
- The main upgrades of MacAPRS are with the Ham callsign CDRoms. I don't
have a CDRom, and there are other programs that lookup callsigns. I want
APRS functions, not duplicate features!
- Does this mean the DOS version of APRS will go away/stop being supported?
I personally prefer the PC version of APRS at this time.
- Already thinking of X-Windows versions???

I get the feeling that the new Windoze version will be an awful lot like
the Mac version rather than the current DOS version. You guys who have
never seen the Mac version run might just want to take a look at how your
program may look in the future! Send your opinions to Keith now so that
the features you like will stay.

73, jan
kc6uth

ps. Yea, I know, this message is *loaded* with opinions. But I wanted to
share 'em anyways...

pps. Many thanks to Keith and Bob for all this great software! (even if
they don't work the way *I* want them to :-)

Jan Anthony Barglowski	Phone: (619) 927-1057
Computer Graphics Dude	Internet: jan@vislab.navy.mil
VisLab, China Lake	Packet: KC6UTH@WA6YBN.#SOCA.CA.US.NA

245. [APRSSIG:3354] APRS IN BACKGR

From: jeff.brenton@espi.com
Date: Mon, 18 Sep 95 14:02:23 -0500
To: aprssig@tapr.org
Message-ID: <9509181402.0JQ1P00@espi.com>
Rendered body type: text/plain

Bob, would it be helpful if I check with some people "in the know" on Windoze
issues to see if there is a way for a QBASIC program to catch a Windows "lost
focus" (this is the way Windows tells a program that it isn't the foreground
anymore) and "got focus" (tells a program it's back in foreground) messages? I
don't know their official names (don't use them), but I do know a lot of DOS
programs do determine that they're under Windoze, and can respond to some messages...

246. eurmir 95 frequencies (fwd)

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Mon, 18 Sep 1995 18:52:22 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509182352.SAA25684@solar.cs.tamu.edu>
Rendered body type: text/plain

Here's authoritative information. EuroMir wasn't selected in a vacuum. We
need to recall that satellite and manned spacecraft frequency allocations are
the subject of TREATY obligations, and not subject to the whim and fancy of
your local coordinator or an arbitrary selection process.

73. gerry

Hans van de Groenendaal SA AMSAT sez:
> From listmaint@amsat.org Mon Sep 18 18:49:55 1995
> Date: Mon, 18 Sep 1995 23:12:38 +0200
> From: Hans van de Groenendaal SA AMSAT <AMSAT@uctvms.uct.ac.za>
> Subject: eurmir 95 frequencies
> To: amsat-bb@amsat.org, df5dp@amsat.org
> Cc: rbaldwin@iaru.org, lprice@arrl.org
> Message-id: <01HVFT7BARDW96WBWP@uctvms.uct.ac.za>
> MIME-version: 1.0
> Content-type: TEXT/PLAIN; CHARSET=US-ASCII
> Content-transfer-encoding: 7BIT
>
> MANNED SPACECRAFT OPERATING FREQUENCIES
>
> For the past two years this subject has been discussed at the
> AMSAT UK Satellite Colloquium, held during the last week of July
> at the University of Surrey, Guildford, United Kingdom.
>
> In 1994 the recommendation was made that 145.800 MHz be used as
> a down link frequency for manned spacecraft operation with
> 145.200 MHz the corresponding uplink.
>
> This recommendation was confirmed at the IARU International
> Satellite Forum and approved by representatives of 13 AMSAT
> organisations.
>
> Satellite and manned spacecraft operations have to compete with
> terrestrial services and operate within an accepted bandplan.
>
> The IARU Region 1 bandplan for 144 - 146 MHz shows that the
> 145.800 - 146.000 MHz is allocated to satellites, while the
> balance of the band is subdivided for other specific terrestrial
> applications.
>
> When in 1995 the last repeater was relocated from 145.800 MHz a
> call was made for the use of this frequency by manned spacecraft
> operation.
>
>
> The German EUOMIR 95 group with the guidance of the DARC Person
> in Charge of satellites and manned spacecraft amateur radio
> projects, Norbert Notthof DF5DP, acted correctly and are
> complimented for taken swift action to fall in line with the IARU
> International Satellite Forum decision.
>
>
> NEED FOR INTERNATIONAL FREQUENCIES COORDINATION
>
> The problems experienced by some US Amateurs again highlights the
> need for international frequency coordination. This coordination
> process is becoming more complex as bandplanning in the three
> IARU regions is not the same. As pointed out by Norbert in his
> recent Email, the Region 1 two metre band is very congested and
> does not give planners the same latitude as in Region 2 where it
> is 4MHz wide.
>
> Next week the IARU Administrative Council will consider the draft
> terms of reference for the IARU AMSAT Frequency Coordinator
> accepted by the International Amsat Groups. Once these terms of
> reference have been accepted, the appointment process will start.
>
>
> In the interim I would welcome comment and suggestions about
> frequency selection for manned spacecraft operation and how best
> the problem can be addressed.
>
>
> 73
>
> Hans van de Groenendaal ZS5AKV
> IARU Satellite Adviser
>
>

--
Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk

* to astronauts, and smile

247. Re: [APRSSIG:3341] The Software Issue

From: Sean Smithers <seans@magick.net>
Date: Mon, 18 Sep 1995 20:23:57 -47900
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9509182013.A23915-0100000@gp.magick.net>
Rendered body type: text/plain

One very good reason for it to run in the background or as an icon is that you will get updates, otherwise you will have major gaps in received information on a mobile transmitter. I usually run things full screen and so don't see the background process on screen, but having APRS not run in the background would kind of be like having your TeleCom program not run in the background.

=====
Sean Smithers
Internet: seans@gp.magick.net
CompuServe: 70132,136
Packet: N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM

On Sat, 16 Sep 1995, MR RODNEY G FOWLER wrote:

> I have been reading with interest over the issue of re-writing the APRS
> program so it would run in WINDOWS, either 3.1 or "95" and especially "in
> the background", why would you want it running in the background, you can't
> see what is happening?
>
>

248. Re: [APRSSIG:3380] Re: ANNOUNCEMENT: Windows Version of APRS!!

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Tue, 19 Sep 95 0:58:40 EDT
To: aprssig@tapr.org
Message-ID: <9509190458.AA20574@umed.med.miami.edu>
Rendered body type: text/plain

>
> And who's seen this MacMapMaker program? I was told that I could help beta
> test in late May, then early June, and haven't heard anything further. I
> have since started developing my maps on the PC and experimenting with the
> PC version of APRS, a strange thing considering I really do like my Mac :-)
>
> There are just a few things troubling me about this:
> - The software is promised much earlier than delivered by Keith. I know
> this is a hobby, but it's cruel to set an unrealistic delivery date. I
> wouldn't exactly hold my breath waiting for this PC Windoze version of
> APRS.

As one of Keith's first beta testers, I have seen the way he develops a program, and it is different from the way Bob works. When Keith releases something, it works fully. He tests it quite a bit even before he releases it to the beta testers. That means a lot fewer releases, but a lot fewer problems for the users, and this is to be commended, not criticized. Like most of us, Keith has a job and a family to support. The program is a labor of love, and occupies virtually all his free time. MacAPRS contains far more code than APRS, and has been developed in much less time. Again, this is something people should be amazed at, and praise Keith for, not criticize him for.

> - The Mac maps, while higher in detail, are somewhat painful to maneuver
> around, ie. no zoom out, no scroll sideways. The PC maps are quite easy
> to get around compared to this.

Not quite right. When you open a MacAPRS map, the entire thing is displayed in the window, once you have zoomed in, you can scroll in any by clicking on a point, and choosing the 'Center View' menu item. There is also a 'Zoom out' item, but this has not been implemented yet, I would presume because I and none of the other users ever expressed a priority to Keith for him to do so.

> - The main upgrades of MacAPRS are with the Ham callsign CDROMs. I don't
> have a CDROM, and there are other programs that lookup callsigns. I want
> APRS functions, not duplicate features!

The different features Keith has added are too numerous to repeat here.

As a single example, version 2.0 allows you to use scanned maps, Delorme PICT maps, or any other PICT file as a map. There is still a bit of work to be done on this, but it does work. Everyone has different interests and priorities, and not everything that is added to the program will benefit you. Tough it out!

It's too bad you don't have a CD ROM, because maybe if you did you would appreciate the value of this feature. I won't waste bandwidth extolling these virtues, but I would say that if you are planning to develop maps, you are going to need a CD ROM anyway, so why not get it now...

> - Does this mean the DOS version of APRS will go away/stop being supported?
> I personally prefer the PC version of APRS at this time.

That would be totally up to Bob, but I don't believe he has any plans to abandon his program.

> - Already thinking of X-Windows versions???

Why am I not surprised that the humor of that statement was totally lost on you?

> I get the feeling that the new Windoze version will be an awful lot like
> the Mac version rather than the current DOS version. You guys who have
> never seen the Mac version run might just want to take a look at how your
> program may look in the future! Send your opinions to Keith now so that
> the features you like will stay.

The main reason Keith is taking on this project is that he will be able to make the windows version with the same code, using conditional compiles for the machine dependent stuff. I would guess the programs will look exactly alike! I too would encourage DOS users to look at MacAPRS...many of you probably won't want to wait, and will buy Macs now!

> ps. Yea, I know, this message is *loaded* with opinions. But I wanted to
> share 'em anyways...

I mostly just sit back and listen, I've found you learn more that way. But every once in a while, there is a message that I just can't let go by without adding my input.

> pps. Many thanks to Keith and Bob for all this great software! (even if
> they don't work the way *I* want them to :-)

Maybe if you provided input in a constructive way they *would* be more like the way you want them to work. I have found Keith to be extraordinarily responsive to my input, and I think MacAPRS is a better program for my involvement. That's a much better feeling than sitting there venting frustration at a volunteer effort!

Personally, I am not happy with Keith taking on the MacAPRS for Windows project. It is going to occupy much of his time in the coming year, which means there will be less time for him to add the features I want. But, maybe if more people start giving him a hard time he'll drop the whole idea!

Keep up the good work.

73 de Steve, K04HD
sdimse@umed.med.miami.edu

249. APRS 7.2 forgetful?

From: jeff.brenton@espi.com
Date: Tue, 19 Sep 95 00:08:17 -0500
To: aprssig@tapr.org
Message-ID: <9509190008.006ZR02@espi.com>
Rendered body type: text/plain

For some reason, APRS 7.2a doesn't remember where I am when I invoke it. What I mean is, when I start APRS, it thinks I'm at 0N 0W, despite the CF71.APR file having my correct location in two places (the bulletin line, and later in the file). I did not have to tell 6.9 or 7.0 where I was after saving the files...

Also, once I tell it where I am, it puts my symbol [square-zero] on the map immediately, but never updates it after that - that is, it "fades to grey". I thought it was supposed to keep bright, but mayhaps this is a misconception?

250. Re: [APRSSIG:3378] Re: ANNOUNCEMENT: Windows Version of APRS!!

From: pe@paccomm.com
Date: Tue, 19 Sep 95 08:50:33 UTC
To: aprssig@tapr.org
Message-ID: <5943@paccomm.com>
Rendered body type: text/plain

Hey. Great. For once poking a wasps' nest with a stick worked out.
Thought my original "hey how about Windows?" thing might have
been a little toooooooooooooo controversial but great to see the
overwhelming enthusiasm for code writing break out amongst you all
on here. Go Bob!
Glad to have been the catalyst for another era in APRS :-)

P.S. Hey, we're trying to do some serious mapping now.
Guys, retire that old 8086 to the corner and at least get a 386!
Yes, there is scope for a router only DOS code to do some clever
stuff - but APRS will only advance with the better machines!

251. Re: [APRSSIG:3385] APRS 7.2 forgetful?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Sep 1995 12:54:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950919125221.23022B-100000@greatlakes>
Rendered body type: text/plain

On Tue, 19 Sep 1995 jeff.brenton@espi.com wrote:

> For some reason, APRS 7.2a doesn't remember where I am when I invoke
> it. What I mean is, when I start APRS, it thinks I'm at 0N 0W, despite
> the CFIG71.APR file having my correct location in two places (the
> Also, once I tell it where I am, it puts my symbol [square-zero] on
> the map immediately, but never updates it after that - that is, it
> "fades to grey". I thought it was supposed to keep bright, but mayhaps
> this is a misconception?

APR REPLY: IF you are configured for any of the GPS modes, then APRS
will reload from a config file and ZERO your position. This is so that
a WRONG position report does not go out until your GPS updates.

I hope I have fixed the fade-to-gray problem in 73a I think.....

252. RE: [APRSSIG:3370] Re: ANNOUNCEMENT: Windows Version of APRS!!

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Tue, 19 Sep 95 11:42:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <305EF301@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

X WINDOWS Version.... now there's a software person who's looking
to keep things in an Open Systems Environment. LINUX version is
just around the corner !!!! Yippee

Thanks in Advance
Allan
AH6LS <--- Hawaii Callsign not California
sadowskp@usafcrqs.nellis.af.mil

From: aprssig
To: aprssig
Subject: [APRSSIG:3370] Re: ANNOUNCEMENT: Windows Version of APRS!!
Date: Sunday, September 17, 1995 10:01PM

> When asked about future plans, Mark said, "When we finish with the
> Windows version, we planning on doing an X-Windows version as well."

253. Anyone else built the GPS antenna ?

From: n2czf@gate.net
Date: Tue, 19 Sep 1995 17:39:39 -0400
To: aprssig@tapr.org
Message-ID: <199509192139.RAA25406@tequesta.gate.net>
Rendered body type: text/plain

Has anyone else on the sig built the GPS antenna shown in this month's QST ??
Any suggestions or tricks ??

I have most of the supplies gathered up and am almost ready to assemble one here
are a few hints/observations

If you cannot find or do not want to spend the \$\$\$ for copper layout tape GC Circuits does sell a pen that will adhere to any surface and provide a solderable pad or mark. We have one at the shop and I plan to try out one antenna with the pen method and one with the copper layout tape.

Instead of using RG-58/U how about some of the new Crushcraft Flexi cable sold with some of their low loss mounts (800 MHz and above). Be warned you will need a special connector or a lot of "careful luck" for the BNC. This cable is very low loss and works great but it is a bit smaller than RG-58/U so the connector will be a bit large. If you use a solder type BNC be careful and then "inject" the body of the connector with some silicone to take up the open space, this should avoid any breakage problems.
let's see if the loss is smaller (I am sure) than with the 58/U so that a MIMIC is not REALLY necessary.

And yes, we are going to try a MIMIC on the antenna in the near future, just got to find one in our junk pile\$. All three of us at work are hams and we all own GPS's so in the next few weeks we will be building 3 antennas, guess our boss will be the lucky one with the LAST antenna built and we will be redoing our own.

Any luck finding the proper hardware, ACE did not have that brand of nylon hardware. No washers either so I bought some extra nuts to use as washers but they end up either too thick or too thin. Guess we will be grinding down quite a few of them to come up with 5mm. Wonder what a light coat of spray paint will do to the character of the antenna ? THis will probably end up bolted to the fiberglass portion of my Blazer and would probably vanish from sight if it were black.

73's Rich n2czf@gate.net

Jupiter Farms FL.

254. Re: [APRSSIG:3389] Anyone else built the GPS antenna ?

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Tue, 19 Sep 1995 18:37:16 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509192337.SAA19909@solar.cs.tamu.edu>
Rendered body type: text/plain

n2czf@gate.net sez:

>

> If you cannot find or do not want to spend the \$\$\$ for copper layout tape GC
> Circuits does sell a pen that will adhere to any surface and provide a
> solderable pad or mark. We have one at the shop and I plan to try out one
> antenna with the pen method and one with the copper layout tape.

Realize that both the thickness and width of the strip are significant in stripline design.

> Instead of using RG-58/U how about some of the new Crushcraft Flexi cable sold
> with some of their low loss mounts (800 MHz and above). Be warned you will need
> a special connector or a lot of "careful luck" for the BNC. This cable is very
> low loss and works great but it is a bit smaller than RG-58/U so the connector
> will be a bit large. If you use a solder type BNC be careful and then "inject"
> the body of the connector with some silicone to take up the open space, this
> should avoid any breakage problems.

ARRRRRRGH! If you're gonna "inject" it with "silicone" make sure it's one of the non-acetic-acid-evolving ones. Or kiss your connection goodbye!

I've had pretty good luck with BNC crimp connectors on the Cushcraft coax. HOWEVER. If you're gonna put a MMIC on the thing you're going to have enough signal to allow (most of the time and within reason) for the 1dB/meter loss of RG-58. So why bother with the extra hassle?

> let's see if the loss is smaller (I am sure) than with the 58/U so that a MIMIC
> is not REALLY necessary.

I'll be interested in your findings. I suspect they'll be skewed by the senditivity of the newer receivers, like the GPS45.

> Any luck finding the proper hardware, ACE did not have that brand of nylon
> hardware. No washers either so I bought some extra nuts to use as washers but
> they end up either too thick or too thin. Guess we will be grinding down quite a
> few of them to come up with 5mm. Wonder what a light coat of spray paint will do
> to the character of the antenna ? THis will probably end up bolted to the
> fiberglass portion of my Blazer and would probably vanish from sight if it were
> black.

Depends on the paint, the dielectric qualities of the paint, and the thickness. A thin coat of most of 'em won't be too much of a hit...

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

255. Re: [APRSSIG:3390] Re: Anyone else built the GPS antenna ?

From: n2czf@gate.net
Date: Tue, 19 Sep 1995 20:20:55 -0400
To: aprssig@tapr.org
Message-ID: <199509200020.UAA61961@tequesta.gate.net>
Rendered body type: text/plain

Well as far as the copper I agree, but in today's workd this copppe tape is no too common in most people's shack. I am lucky the company that makes PC boards for my outfit is across the street and I see them about every other day so I am sure they can part with the tape... it they even have it anymore. COMPUTERS!

On the other points I totally agree, I guess I should not have assumed that everyone would understand. The paint I was unsure of but you confirmed what I thought.

I will let you and everyone know as I make them.
73's Rich

256. sub scribe

From: kenwil@interlog.com (Ken Quibell)
Date: Tue, 19 Sep 1995 10:37:11 -0400
To: aprssig@tapr.org
Message-ID: <199509200239.WAA26653@gold.interlog.com>
Rendered body type: text/plain

HI JUST TO DROP U LINE TO SAY HI. BIN APRS FOR ABOUT A YEAR GOT A GPS 45 MOBILE AND MY CABLE & LAPTOP ONE LITL PROBLM I GET A I/O GLITCH WENT IT TOGO FOR NMEA HAVE NOT CHECK FOR 6/12 VOLTS ON RS232 YET GOT TO DO THAT NOT SHORE IF THAT THE PROBLM FOR I/O GLITCH THE IFO ONLY SED IF U CAN NOT GET IT TO WORK WHEN I TAKE THE CABLE OFF THE BACK OF GPS 45 NO I/O GLITCH BUT OF CORCE NO NMEA SO IS IT THE 6/12 VOLT OR NOT ?? BUT IM HAVING FUN. THAT WHAT ITS ALL ABOUT
73 FOR KNOW VE3DKQ MISSISSAUGA KEN.

257. Re: [APRSSIG:3391] Re: Anyone else built the GPS antenna ?

From: Jeff Liebermann <jeffl@comix.santa-cruz.ca.us>
Date: Tue, 19 Sep 1995 16:52:01 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <9509191652.aa10199@comix.Santa-Cruz.Ca.US>
Rendered body type: text/plain

> Well as far as the copper I agree.
> but in today's workd this copppe tape is no
> too common in most people's shack.

Copper tape is used heavily in making stained glass windows.
Try an art supply store or stained glass studio.

If you're really a butcher and hate to solder, I've used aluminum duct tape for shielding and for building quicky strip lines. Instead of soldering, I use conductive epoxy. It's amazingly stable as long as the glue behind the aluminum doesn't creep.

--

Jeff Liebermann Liebermann Design 150 Felker St #D Santa Cruz CA 95060
408.336.2558 voice wb6ssy@ki6eh.#cenca.ca.usa wb6ssy.ampr.org 44.4.18.10
408.699.0483 digital_pager 73557,2074 cis [don't]
jeffl@comix.santa-cruz.ca.us http://www.cruzio.com/~jeffl

258. GPS Ant

From: Frank McJunkins <fmcjunk@cks.ssd.k12.wa.us>
Date: Tue, 19 Sep 1995 22:16:21 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950919221219.2610A-100000@cks>
Rendered body type: text/plain

Ok, I built one. I used sheet brass-and the only nylon spacers that would come close to the suggested 5mm stack height were those from Ace Hardware. I modified the design very slightly by placing a BNC connector where the coax would pass through the bottom (reflector) sheet, and the center conductor went right through the hole on the antenna side. I played with the finished version this evening, and I'm afraid as of this writing I am not impressed. My Garmin 75 antenna seems to be better. I suppose it would be if the Garmin antenna has an MMIC amp in it, but I'm not sure if the stock Garmin 75 antenna has the amp! I am in the process of building an MMIC amp for the patch antenna to make up for the line loss. All in all, it does work. Just not as well as I would have expected.

Frank McJunkins K7RSD fmcjunki@cks.ssd.k12.wa.us FAX: (206) 545-7916

259. APRS 7.2 forgetful?

From: jeff.brenton@espi.com
Date: Wed, 20 Sep 95 01:10:42 -0500
To: aprssig@tapr.org
Message-ID: <9509200110.01NLI02@espi.com>
Rendered body type: text/plain

Thanks for the word on removing the GPS registration from the config file, Bob. Seems that putting that number in on a desk top system can cause more problems than it is worth!

[I thought I'd taken it out some time ago, because it kept trying to switch the HSP that isn't attached to this machine, and I couldn't get it to disable that on start-up]

260. Conversion for DLGs

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Wed, 20 Sep 1995 13:36:14 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509201836.NAA06846@solar.cs.tamu.edu>
Rendered body type: text/plain

Someone sent me a copy of a basic program to block the records for the downloaded DLGs on the PC. I saved it... and then moved it to the house. Now, I need it at work, and can't go home to get it!

If you'd resend it I'd be most appreciative!

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gergy@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

261. balloon launch dist 9

From: debell@heartland.bradley.edu
Date: Wed, 20 Sep 1995 15:00:18 -0500
To: aprssig@tapr.org
Message-ID: <199509202000.PAA05088@balrog.itek.net>
Rendered body type: text/plain

Msg #15984 Type:B For:BALLON @DIST9 From:N9WST Date:950919
Length:1172
Subject: Balloon Launch
R:950920/0206Z @:W9UVI.IL.USA.NOAM #:15984 [PEORIA] FBB5.15c
\$:7_N9WST

From: N9WST@W9UVI.IL.USA.NOAM
To : BALLON@DIST9

N9WST/TPK 1.82 Msg #:7 Date:19-09-95 Time:21:43Z

The Central Illinois Balloon Assoc. (CIBA) is planning its third high altitude balloon launch on Saturday, September 30th at 9:00am. Rain date is Sunday, October 1st. The details of the flight are listed below.

Balloon: 1200 gram Totex
Est. max altitude: ~ 90,000 feet
Payload weight: 8.5 lbs.
Parachute: 7.5 foot dia.

Gas: Helium
Ascent rate: ~ 800 feet/min.

Radios: GPS data on APRS freq. of 145.79 Mhz.
Crossband repeater 147.585 Mhz INPUT with TONE of
146.2 Hz
441.025 Mhz OUTPUT

Call Signs: Balloon - N9WST-11
Crossband Repeater - N9XHJ/R

Note: The flight will contain two separate payload
containers.....one
containing the GPS/APRS equipment and transmitter and the
other
will contain the crossband repeater. This should
eliminate the
desense of the GPS equipment.

Stations watching the flight on APRS.....please drop us a line
and let us know
your QTH and signal strength.

Mark Elliott de N9WST@W9UUVI.IL.USA.NOAM

262. balloon launch dist. 9

From: debell@heartland.bradley.edu
Date: Wed, 20 Sep 1995 15:00:13 -0500
To: aprssig@tapr.org
Message-ID: <199509202000.PAA05084@balrog.itek.net>
Rendered body type: text/plain

Msg #15984 Type:B For:BALLON @DIST9 From:N9WST Date:950919
Length:1172
Subject: Balloon Launch
R:950920/0206Z @:W9UUVI.IL.USA.NOAM #:15984 [PEORIA] FBB5.15c
\$:7_N9WST

From: N9WST@W9UUVI.IL.USA.NOAM
To : BALLON@DIST9

N9WST/TPK 1.82 Msg #:7 Date:19-09-95 Time:21:43Z

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desense of the GPS equipment.

Stations watching the flight on APRS.....please drop us a line
and let us know
your QTH and signal strength.

Mark Elliott de N9WST@W9UUVI.IL.USA.NOAM

263. Balloon Launch

From: elliott@itek.net
Date: Wed, 20 Sep 1995 18:11:28 -0500
To: aprssig@tapr.org
Message-ID: <199509202311.SAA12946@balrog.itek.net>
Rendered body type: text/plain

The Central Illinois Balloon Assoc. (CIBA) is planning its third high altitude balloon launch on Saturday, September 30th at 9:00am. Rain date is Sunday, October 1st. The details of the flight are listed below.

Balloon: 1200 gram Totex
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Call Signs: Balloon - N9WST-11
Crossband Repeater - N9XHJ/R

Note: The flight will contain two separate payload containers.....one containing the GPS/APRS equipment and transmitter and the other will contain the crossband repeater. This should eliminate the desense of the GPS equipment.

Stations watching the flight on APRS.....please drop us a line and let us know your QTH and signal strength reports.

Mark Elliott de N9WST@W9UVI.IL.USA.NOAM

264. Re: [APRSSIG:3393] Re: Anyone else built the GPS antenna ?

From: n2czf@gate.net
Date: Wed, 20 Sep 1995 19:22:44 -0400
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199509202322.TAA34949@tequesta.gate.net>
Rendered body type: text/plain

Well people, if anyone knows of a good place to get the copper tape made by Bishop Graphics or GC in a small quantity post it here, if not I agree the conductive epoxy or the conductive pen method may be the easier way to do it.

I just went to my supplier of PC boards that is across the street from my work and they said that the conductive tape is hard to find nowadays. In these days of computers everything is done from CAD to Film and that it it. They did not even have any scraps from back in the old days. I know I looked around, I spend more time at their shop than behind my own bench!

Now where can I find a well stocked craft supply store hummm....
73's Rich N2CZF
n2czf@gate.net

265. Re: [APRSSIG:3400] Re: Anyone else built the GPS antenna ?

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Wed, 20 Sep 1995 16:45:43 -0700
To: aprssig@tapr.org
Message-ID: <9509202341.AA01318@gvgadg.gvg.tek.com>
Rendered body type: text/plain

>Well people, if anyone knows of a good place to get the copper tape made by
>Bishop Graphics or GC in a small quantity post it here, if not I agree the
>conductive epoxy or the conductive pen method may be the easier way to do it.
>

>I just went to my supplier of PC boards that is across the street from my work
>and they said that the conductive tape is hard to find nowadays. In these days
>of computers everything is done from CAD to Film and that it it. They did not
>even have any scraps from back in the old days. I know I looked around, I
spend
>more time at their shop than behind my own bench!

>
>Now where can I find a well stocked craft supply store hummm....
>73's Rich N2CZF
>n2czf@gate.net
>
>

>
I called over to the fellow that runs our EMI certification lab, who also is a ham. He uses the copper tape to cover up RFI leaks during product testing.

He sent me a foot of the 1 inch wide copper tape.

Try your lab, if you have one.

Randy

"[Tektronix] policy guidelines for posting to electronic communication systems state that personal opinions outside the duties of an employees assigned job must be accompanied by a disclaimer."

I disclaim everything.

Ethernet, the RS-232 of the 90s.

Randy Hall WA2AGE randyh@gvgadg.gvg.tek.com Grass Valley Group

266. N7LUE

From: Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Wed, 20 Sep 1995 21:03:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.950920210211.18313C-100000@outland.dtcc.edu>
Rendered body type: text/plain

Anyone know if N7LUE (the doppler interface guy) is back in town. I need to contact him

Sam K3BY

267. Re: [APRSSIG:3400] Re: Anyone else built the GPS antenna ?

From: Dwight Smith <dpsmith@westnet.com>
Date: Wed, 20 Sep 1995 22:57:50 -0400 (EDT)
To: n2czf@gate.net
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950920225534.28435G-100000@westnet.com>
Rendered body type: text/plain

How about the repair kit for the grid on your rear window?
It is conductive and comes in a small quantity, available in autoparts stores and at the dealer.

Measure twice, daub once.

268. Re: [APRSSIG:3400] Re: Anyone else built the GPS antenna ?

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Thu, 21 Sep 1995 01:17:09 -0500
To: aprssig@tapr.org
Message-ID: <199509210613.BAA22450@sys1.tapr.org>
Rendered body type: text/plain

>Well people, if anyone knows of a good place to get the copper tape made by
>Bishop Graphics or GC in a small quantity post it here,

Hey Guy's the 1 inch copper tape I use is for making tiffany lamps and small stainedglass windows. Give you an idea of alternative places to look? I haven't seen the article yet but the stuff I use comes in 1/4 to 1 inch widths and has an adhesive back I'm not sure if the thickness is what you need or not, but at least it's worth checking art or stainedglass hobby stores.

barrett (^-^)

269. [APRSSIG:3404] Re: Anyone else built the GPS antenna ?

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Thu, 21 Sep 1995 01:39:13 -0500
To: aprssig@tapr.org
Message-ID: <199509210635.BAA22773@sys1.tapr.org>
Rendered body type: text/plain

>Well people, if anyone knows of a good place to get the copper tape made by
>Bishop Graphics or GC in a small quantity post it here,

Hey Guy's the 1 inch copper tape I use is for making tiffany lamps and small staining glass windows. Give you an idea of alternative places to look? I haven't seen the article yet but the stuff I use comes in 1/4 to 1 inch widths and has an adhesive back I'm not sure if the thickness is what you need or not, but at least it's worth checking art or staining glass hobby stores.

barrett (^-^)

270. Re: Anyone else built the GPS antenna ?

From: dbbrumm@mtu.edu (Doug Brumm)
Date: Thu, 21 Sep 1995 08:21:54 -0400
To: aprssig@tapr.org
Message-ID: <199509211221.IAA07218@pobox.ee.mtu.edu>
Rendered body type: text/plain

Hello all,

With regard to those looking for conductive tape, why don't you just use copper or brass sheet for the antenna parts instead of aluminum? These both solder easily to give a much more reliable connection than you will get with an adhesive-based connection. Brass sheet is readily available in my local hardware store (in several thicknesses). I happen to be using a sheet of hard copper because I already have it; otherwise I would use brass.

I also intend to seal the coax end with RTV after it is attached to the plates so that water can't get in. Losses are high at the GPS frequency even when the coax is dry!!

73 & CUL,
Doug Brumm N800N
dbbrumm@mtu.edu
Calumet, MI

271. External Antennas

From: mwalker@interlog.com (Mike Walker)
Date: Thu, 21 Sep 95 08:47:38 EDT
To: aprssig@tapr.org
Message-ID: <199509211248.IAA22466@gold.interlog.com>
Rendered body type: text/plain

A simple alternative to the patch antenna:

I had an old Oak Bay remote antenna mount that was used with a handheld. This mount was a window clip with a BNC Connector, and about 6 feet of RG-174. The idea was to get the handheld antenna outside the car.

Well, I took the one I had and bent it up a bit and bolted it to a magnet. The GPS-45 antenna connects directly to it in the correct polarization. I then hook the other end to the GPS.

I have found the signals may be slightly down in strength (not sure), but I continuously track 8 Satellites when they are in view. It is FAR superior to the GPS somewhere up on the dash board and it allows me to hold it in my hand to make some changes.

Total time invested was about 15 minutes and I used an old magnet from a scanner antenna.

73...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

272. Re: [APRSSIG:3402] N7LUE

From: JAgrelo@aol.com
Date: Thu, 21 Sep 1995 09:00:51 -0400
To: aprssig@tapr.org
Message-ID: <950921090050_25319777@emout04.mail.aol.com>
Rendered body type: text/plain

Sorry, he's not back yet. Contact his dad Jerry Swain at cmpk59a@prodigy.com to verify his return.

Is there anything I can help you with ?, I do the latest schematics and board

layout for him.

73 Joe Agrelo/N200C

273. Re: [APRSSIG:3400] Re: Anyone else built the GPS antenna ?

From: Tom Kinahan <kinahan@mail1.bytex.network.com>
Date: Thu, 21 Sep 1995 09:16:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950921091347.24183B-100000@ws007-fddi>
Rendered body type: text/plain

Here, where I work, we use conductive tape for EMC test and design. It's an integral part of what the EMC people do. They tell me that copper tape is available from 3M and presumably your local 3M distributor and they tell me of a company in Spencer, Mass called FLEXCON that makes laminates that pass for copper tape.

Try those sources if Copper tape is still hard to find.

Tom Kinahan	Phone: 508-366-0040 x360
Bytex / Network Systems Corp.	Fax: 508-366-0244
4 Technology Drive	Email: kinahan@bytex.network.com
Westborough, Ma. 01581	Amateur Radio: N1CPE

274. Re: [APRSSIG:3398] balloon launch dist. 9

From: dwetzel@acs.uswest.com
Date: Wed, 20 Sep 1995 16:32:02 -0500
To: aprssig@tapr.org
Message-ID: <06157510@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Msg #15984 Type:B For:BALLON @DIST9 From:N9WST Date:950919
Length:1172
Subject: Balloon Launch
R:950920/0206Z @:W9UUVI.IL.USA.NOAM #:15984 [PEORIA] FBB5.15c
\$:7_N9WST

From: N9WST@W9UUVI.IL.USA.NOAM
To : BALLON@DIST9

N9WST/TPK 1.82 Msg #:7 Date:19-09-95 Time:21:43Z

The Central Illinois Balloon Assoc. (CIBA) is planning its third high altitude balloon launch on Saturday, September 30th at 9:00am. Rain date is Sunday, October 1st. The details of the flight are listed below.

Balloon: 1200 gram Totex
Est. max altitude: ~ 90,000 feet
Payload weight: 8.5 lbs.
Parachute: 7.5 foot dia.
Gas: Helium
Ascent rate: ~ 800 feet/min.

Radios: GPS data on APRS freq. of 145.79 Mhz.
Crossband repeater 147.585 Mhz INPUT with TONE of
146.2 Hz
441.025 Mhz OUTPUT

Call Signs: Balloon - N9WST-11
Crossband Repeater - N9XHJ/R

Note: The flight will contain two separate payload containers....one containing the GPS/APRS equipment and transmitter and the other will contain the crossband repeater. This should eliminate the desense of the GPS equipment.

Stations watching the flight on APRS....please drop us a line and let us know your QTH and signal strength.

Mark Elliott de N9WST@W9UUVI.IL.USA.NOAM

Can someone gate this onto hf so we all could watch it?

Doug
KC7CO
dwetzel@acs.uswest.com

275. Re: [APRSSIG:3400] Re: Anyone else built the GPS antenna ?

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Thu, 21 Sep 1995 11:11:08 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509211611.LAA00864@solar.cs.tamu.edu>
Rendered body type: text/plain

Actually, Digikey (1-800-digikey) has it, but I don't have time right now to get out the catalog. They also have aluminum tape. Both are used to EMI/EMC-proof devices in small numbers, or on the fly, at NASA.

73, gerry

--

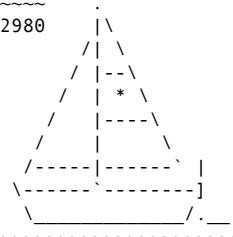
Gerry Creager N5JXS * SAREX Co-Investigator
gergy@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

276. Re: [APRSSIG:3409] Re: Anyone else built the GPS antenna ?

From: pe@paccomm.com
Date: Thu, 21 Sep 95 12:07:49 UTC
To: aprssig@tapr.org
Message-ID: <6086@paccomm.com>
Rendered body type: text/plain

You can buy the Cu tape at Home Depot

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com +1 (813) 874-2980  
Fax:+1 (813) 872-8696  
Not an official authoritative spokesman for PacComm  
Don't surf the net, SAIL it!  
Captain of S/V "Spindrift", Dunedin, FL.  
Catalina 36: Tall rig (58'), Winged Keel (4' 2"),  
Full batten main, Boston Whaler dinghy.  
PacComm Packet Radio Systems  
4413 N. Hesperides St., Tampa, FL 33614-7618  
~~~~~



277. Re: SYMBOL COLORS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Sep 1995 16:46:20 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950921163816.688C-100000@greatlakes>
Rendered body type: text/plain

On Thu, 21 Sep 1995 DDOBBINS@aol.com wrote:

> Bob, several SDGO guys noticed when they upgraded to 73a that the WIDE digi
> changed from GREEN to GRAY. Happened to me also.

ONLY WIDE-RELAY digipeaters now show as GREEN. This is because all WIDE area digipeaters should have TWO ALIASES. WIDE and RELAY. Everyone that sponsors a WIDE digipeater should convert ASAP to dual aliases. When this is done, there are 2 big advantages:

- 1) Mobiles may use the path of RELAY,WIDE no matter where they go
- 2) We can CUT DOWN on the number of wides! WIDE's should be WIDELY separated to reduce QRM and increase the range of WIDE,WIDE paths.
- 3) Lots of existing WIDE's and "EGOpeters" that are NOT truly wide area coverage can go back to RELAY only and still serve all MOBILEs and fixed stations.

>

> Additionally, I asked one guy why his symbol was a dot, and he checked his
> own screen and said it was a house. Others see him as a dot as well, vice the
> house symbol. On the position line it listed a (-) after the coordinates.

DURING REPLAY, you have the option of DOTS only. If you leave that on, then you are stuck with dots, I think...

278. RE: WIDE-RELAY digis

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Sep 1995 18:39:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950921182550.2792A-100000@greatlakes>
Rendered body type: text/plain

In response to someone's question about what TNC's can have dual ALIASES:

Besides the KPC-3, the Pk-12 and other AEA products have other calls, such as the "MyGATE" (bad name compared to the KANTRONICS Gateway) and the TAPR-2 clones can use NETROM. Most of the NETROM calls such as MYBBS, MYHOST, or MYDX will digipeat. The Pico TNC from PacComm will have 4 aliases!

IF YOU ARE THE FIRST IN YOUR AREA, then you can let the MY = WIDE and the MYA=RELAY. Then put the amateur call in the BText and set it to ID once every 10 minutes... You can also let another digi have the MY=RELAY and the alias =WIDE. But ONLY these two TNC's may cheat like this in any area. As soon as two TNC's have the same call, then posits will be confusing!

Also this is only a TEMPORARY solution, because with both calls being generic, you can NEVER specifically address either of these digipeaters by a unique call. So except by signal strength, you can never route packets specifically via those sites. But it is a temporary shortcut... to get the WIDE-RELAY concept going.

The WIDE-RELAY network really solves the problem for my 1 watt GPS tracker, because I can set the path to via RELAY-WIDE and it will work both around my house using my base station (RELAY) and around my work QTH which is near a WIDE (now also a RELAY). I never have to change the tracker's path. Also, when I go into the boonies, as long as I pass near some other APRS'er, his STATION will "RELAY" me into the network...

279. TIME TIME Balloon Launch

From: debell@heartland.bradley.edu
Date: Thu, 21 Sep 1995 19:03:02 -0500
To: aprssig@tapr.org
Message-ID: <199509220003.TAA10133@balrog.itek.net>
Rendered body type: text/plain

I sent the following to the sig and did not define the proper time. When it is 18:00 in Peoria, IL it is 00:00 in London, England. We are on Central Daylight Savings Time.

"Date: Thu, 21 Sep 1995 14:32:02 -0400
Subject: Re: [APRSSIG:3398] balloon launch dist. 9
To: debell@heartland.bradley.edu

9:00 AM EDT? CDT? MDT? PDT? <*****!!!

The Central Illinois Balloon Assoc. (CIBA) is planning its third high altitude balloon launch on Saturday, September 30th at 9:00am. Rain date is Sunday, October 1st. Stations watching the flight on APRS.....please drop us a line and let us know your QTH and signal strength.

Mark Elliott de N9WST@W9UVI.IL.USA.NOAM"

Thanks, Darrell in Peoria, IL

280. BETA test of 73b

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Sep 1995 19:54:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950921183953.2792C-100000@greatlakes>
Rendered body type: text/plain

BETA TEST OF EXE73b.ZIP: Contains APRS73b.exe ONLY. I need some tests:

- 1) Im trying to behave better in the background under WINDOZ
- 2) I changed the code which sets up the video mode. Try 73b on CGA's and BW monochromes, and 8088 laptops, and be sure I did not bust it.
- 3) As soon as someone clarifies that calling INTERRUPT(22) will help in a multitasking environment, I will add that too, but I was afraid to put it in until I got positive info on its use...

IT IS NOT POSTED ON TAPR, cuz I just cant get my PC to upload it for some reason. It is therefore posted on 410 280-2503 BBS in the UPLOAD directory It is only 171K file.

Ver 73b: PRELIMINARY!

Here are the changes so far in 73b. Do NOT download it unless you want to try it out. It is EXE73b.ZIP which contains ONLY the APRS73b.exe file itself and not even this NEWNOTES.txt yet...

- * Now you can save the condition of the CONTROLS-LOG switch in the cfig file This changes CFIG file format. You can upgrade your 73 CFIG file by adding a COMMA and -1 after the 15 on the line about 22 lines down. Then copy the file to CFIG73b.APR
- * F-10 DOZ command disables all screen writes and puts APRS into a BLANK text screen. This may make it then run better in the background under windoz.. When returning to foreground most commands are safe, but it is best to first hit F10 or maybe one of the major screen commands.
- * Fixed the FIND-GRID-SQ command which got broke somewhere along the way...
- * Better discrimination of APRS MSGs for the TRAFFIC screen...
- * Fixed messages for your internal PBB5 showing up on READ screen
- * Changed Hurricane format to \$HC/www^ppp/BAR>RRR&rrr. See WX.TXT
- * Scalable Y Axis in 3D using F3/F4 keys
- * FIXES 73a bug in SPACE mode that sends LONG PACKETS Full of extra spaces!)
- * MOved SAVES back to bottom lines...

But I also piddled around with some little nitts, so need to have everything checked... Since I am NOT including all of the updated TEXT files, consider this only a BETA test.

281. location of balloon launch

From: debell@heartland.bradley.edu
Date: Thu, 21 Sep 1995 19:44:34 -0500
To: aprssig@tapr.org
Message-ID: <199509220044.TAA11453@balrog.itek.net>
Rendered body type: text/plain

Msg #16407 Type:B For:BALLON @DIST9 From:N9WST Date:950921
Length:263
Subject: Launch site location
R:950921/2104Z @:W9UVI.IL.USA.NOAM #:16407 [PEORIA] FBB5.15c
\$:10_N9WST

From: N9WST@W9UVI.IL.USA.NOAM
To : BALLON@DIST9

N9WST/TPK 1.82 Msg #:10 Date:21-09-95 Time:16:40Z

Guess I left out one bit of information on CIBA's Sept. 30 launch.....

Launch site: Washington, IL.
Latitude: 4043.048 N
Longitude: 8922.580 W

Mark Elliott de N9WST

282. Re: [APRSSIG:3415] TIME TIME Balloon Launch

From: elliott@itek.net
Date: Thu, 21 Sep 1995 21:25:32 -0500
To: aprssig@tapr.org
Message-ID: <199509220225.VAA14310@balrog.itek.net>
Rendered body type: text/plain

Please call me at 691-2938

Mark Elliott de N9WST
CIBA

283. one more thing

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Sep 1995 23:50:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950921234114.3959C-100000@greatlakes>
Rendered body type: text/plain

GOOD NEWS:

One more thing that is in 73b and that is the ALTpath. This is under the

OPS-DIGI menu. Allows you to set an ALTERNATE path for your POSITION report and a percentage. Then randomly at that percentage, your position report will NOT go via your normal UNPROTO setting, but will be changed to the ALT-path. This is useful if you live in the middle of a string of digipeaters and want to let both ends of the string know you are alive...

Set your normal OPS-UNPROTO to the path of MOST of your activity, and then set the opposite direction in your ALTpath, and set it to 20% or something like that. Only the POSIT is sent via the alt path, since you can already send MESSAGES anyway you want..

BAD NEWS: It doesnt appear to work! ARGH. I overlooked it in my testing becaause I put that code in while sitting under a street lamp with my broken down car waiting for my wife to come rescue me. Ergo, I forgot to add that change to my list, ergo, I forgot to test it when compiled. Ergo, I just found it while playing with 73b, tested it, and back to the drawing board we go... hi hi

284. Europe Version?

From: "Hans-S Klausmann t3227 Prof. Dr." <Hans-S.Klausmann@extern.uni-regensburg.de>
Date: Fri, 22 Sep 1995 12:19:17 +0100
To: aprssig@tapr.org
Message-ID: <1278F9E62CBA@alf6.ngate.uni-regensburg.de>
Rendered body type: text/plain

Hello Bob,

APRS is great! only nobody knows it in DL...(well very few only)
I heard that a EU version is at work?

There is a PA OM in the readme file, but no e-mail or PR adress.
Will he distribute the EU version?

Any information abt that are wellcome - thank you very much.

73 de Hans, - DL5RAZ@DB0RGB.#BAY.DEU, nr Regensburg nr Munich

e-mail: hans-s.klausmann@extern.uni-regensburg.de

285. Re: [APRSSIG:3419] one more thing

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Fri, 22 Sep 1995 08:52:46 -0400
To: aprssig@tapr.org
Message-ID: <199509221252.IAA28147@dylan.mindspring.com>
Rendered body type: text/plain

What about this (when you recompile to fix that):

Let the WX report also go thru an alternate path. Then my WX reports could go thru the local GATE, but my other junk would go thru a "local coverage" Unproto path.

And since I'm using the bandwidth- Bob, when does the rain counter actually reset itself? Top o the hour or every hour on the anniversary of booting the program?

Could the QRT command (F6) be made to freeze GPS position data? If it is going to be sent with QRT for the spd/hdg, then why not make it "freeze" your location, too. Sort of like going back to the trunk and unplugging the GPS (as someone suggested).

If my GPS transmit interval is 1 minute, is the program supposed to slow this down when it senses I am not moving?

Thanks
Ralph

At 11:02 PM 9/21/95 -0500, you wrote:

>GOOD NEWS:

>One more thing that is in 73b and that is the ALTpath. This is under the
>OPS-DIGI menu. Allows you to set an ALTERNATE path for your POSITION
>report and a percentage. Then randomly at that percentage, your position
>report will NOT go via your normal UNPROTO setting, but will be changed
>to the ALT-path. This is useful if you live in the middle of a string of
>digipeaters and want to let both ends of the string know you are alive...

>
>Set your normal OPS-UNPROTO to the path of MOST of your activity, and
>then set the opposite direction in your ALTpath, and set it to 20% or
>something like that. Only the POSIT is sent via the alt path, since you
>can already send MESSAGES anyway you want..
>
>BAD NEWS: It doesnt appear to work! ARGH. I overlooked it in my testing
>because I put that code in while sitting under a street lamp with my broken
>down car waiting for my wife to come rescue me. Ergo, I forgot to add that
>change to my list, ergo, I forgot to test it when compiled. Ergo, I just
>found it while playing with 73b, tested it, and back to the drawing board
>we go... hi hi
>
>
>

286. Re: [APRSSIG:3415] TIME TIME Balloon Launch

From: nessm@ix.netcom.com (TRAVIS ROACH)
Date: Fri, 22 Sep 1995 06:23:49 -0700
To: aprssig@tapr.org
Message-ID: <199509221323.GAA04526@ix5.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>I sent the following to the sig and did not define
>the proper time. When it is 18:00 in Peoria, IL it
>is 00:00 in London, England. We are on Central
>Daylight Savings Time.
>
>"Date: Thu, 21 Sep 1995 14:32:02 -0400
>Subject: Re: [APRSSIG:3398] balloon launch dist. 9
>To: debell@heartland.bradley.edu
>
>9:00 AM EDT? CDT? MDT? PDT? <*****!!!
>
>The Central Illinois Balloon Assoc. (CIBA) is planning
>its third high altitude balloon launch on Saturday,
>September 30th at 9:00am.
>Rain date is Sunday, October 1st.
>Stations watching the flight on APRS....please drop
>us a line and let us know your QTH and signal strength.
>
>Mark Elliott de N9WST@W9UWI.IL.USA.NOAM"
>
>Thanks, Darrell in Peoria, IL
>
>

Sorry to bother you, but I was dropped from the list and missed the
launch announcement. Will you be using 145.79?

Thanks

Travis WA4DOR

287. APRS 73b in Windoz

From: Jerry Wyatt <jwyatt@amex-trs.com>
Date: Fri, 22 Sep 95 10:10:11 -0700
To: aprssig@tapr.org
Message-ID: <9509221710.AA40613@lineng.ipc.amex-trs.com>
Rendered body type: text/plain

Hi All,

Have been testing 73b in Windoz, getting ready to move it over to '95 for more
testing.

Question:

Has anyone made an icon for APRS. All this talk 'bout Windoz, and no icon!

Later
jw

The opinions expressed in this message are those of the author only,
and do not necessarily reflect the opinions of American Express.

288. Re: [APRSSIG:3421] Re: one more thing

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 22 Sep 1995 16:06:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950922155838.16857E-100000@greatlakes>
Rendered body type: text/plain

On Fri, 22 Sep 1995, Ralph Fowler, N4NEQ wrote this about fixing APRS:

> Let the WX report also go thru an alternate path.
REPLY: They do, a WX report is a POSIT report
>
> And since I'm using the bandwidth- Bob, when does the rain counter actually
> reset itself? Top o the hour or every hour on the anniversary of booting
REPLY: It is a running count. APRS is constantly comparing the rain
value to the rain value from an HOUR ago (every 6 minutes). (and for the
PRECIP field, from a DAY AGO (every hour)

> Could the QRT command (F6) be made to freeze GPS position data? If it is
> going to be sent with QRT for the spd/hdg, then why not make it "freeze"
> your location, too.
REPLY: to stop transmitting, use the CONTROLS-XMT to disable transmitting.
The QRT function is to eliminate your course and SPEED so that your station
does not continue to dead reckon on everyone's screen after you QRT your
station.
>
> If my GPS transmit interval is 1 minute, is the program supposed to slow
> this down when it senses I am not moving?
REPLY: It was intended to. But maybe I should check. I bet I never
implemented that or at least followed through to make sure that it still
works through all the versions...

289. Re: [APRSSIG:3424] Re: one more thing

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Fri, 22 Sep 1995 16:53:37 -0400
To: aprssig@tapr.org
Message-ID: <199509222053.QAA16137@dylan.mindspring.com>
Rendered body type: text/plain

At 03:22 PM 9/22/95 -0500, you wrote:
>
>On Fri, 22 Sep 1995, Ralph Fowler, N4NEQ wrote this about fixing APRS:
>
>> Let the WX report also go thru an alternate path.
>REPLY: They do, a WX report is a POSIT report

So, then, can I have one path for normal operations set up (that my local
"chatting" messages go through), and another for my posit reports. This
would keep the chatting off HF. I have hesitated to put the WX out because
I don't want to contaminate HF with local keyboard stuff.

>
>> Could the QRT command (F6) be made to freeze GPS position data? If it is
>> going to be sent with QRT for the spd/hdg, then why not make it "freeze"
>> your location, too.

>REPLY: to stop transmitting, use the CONTROLS-XMT to disable transmitting.
>The QRT function is to eliminate your course and SPEED so that your station
>does not continue to dead reckon on everyone's screen after you QRT your
>station.

Yes, but that stops my posit report completely. I'd like the car to be on
screen, I just don't want it to wiggle around. It still wiggles even when
using QRT. I also like the position to be set (frozen) at the point I
pressed F6. Sort of like a software ON/OFF switch in the GPS transmit data
line. Cutting the TX off for the TNC would stop all transmissions.

>>
>> If my GPS transmit interval is 1 minute, is the program supposed to slow
>> this down when it senses I am not moving?
>REPLY: It was intended to. But maybe I should check. I bet I never
>implemented that or at least followed through to make sure that it still
>works through all the versions...

Mine was transmitting like crazy (every 30 secs) when I went out to the
car the other night. I'd speeded it up so I could map a certain road and
had forgotten to slow it back down.>

Watch your local APRS screen closely next week, Bob.
>

290. Re: [APRSSIG:3416] BETA test of 73b

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Fri, 22 Sep 1995 16:13:24 -0500
To: aprssig@tapr.org
Message-ID: <199509222110.QAA23025@psycfrnd.interaccess.com>
Rendered body type: text/plain

>
>BETA TEST OF EXE73b.ZIP: Contains APRS73b.exe ONLY. I need some tests:
>
>IT IS NOT POSTED ON TAPR, cuz I just cant get my PC to upload it for some
>reason>
>
>
>
>
Bob (and all),

I uploaded it to TAPR for those who need it, also I'll run the heck out of it this weekend under WIN95 to see what breaks.

Anyone in the area of Lake County (Illinois) Fairgrounds this weekend, 23-24th, drop in on Radio Expo '95. I be presenting an APRS forum both days at 10:15 (with Dave KA9NHL and Dan N9XHP). We also will have a "club" booth and information table using both DOS and MAC versions up and running.

Again a big thanks to both you and Keith for these programs.

73
Ed
N9LCI

"A boat is a hole in the water into which you throw money"

291. Re: [APRSSIG:3419] one more thing

From: n2czf@gate.net
Date: Fri, 22 Sep 1995 18:26:03 -0400
To: aprssig@tapr.org
Message-ID: <199509222226.SAA05756@tequesta.gate.net>
Rendered body type: text/plain
[Empty message body]

292. Error 5

From: LCCENG@delphi.com
Date: Fri, 22 Sep 1995 21:30:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <01HVLAP0WSEA8Y5TXX@delphi.com>
Rendered body type: text/plain

I am trying to help my dad, father-in-law, K2AXQ , use APRS.
He gets the message:

o00PS, Error 5

when he tries to run aprs72a.

I was unable to find an error list in the readme files.
Does anyone have one or know where I can get one?

Bill, WB2LCC

293. cancel

From: "Daniel R. Emblidge" <emblidge@ns.moran.com>
Date: Fri, 22 Sep 95 22:31:30 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950922223140.emblidge@emblidge.moran.com>
Rendered body type: text/plain

Name: Daniel R. Emblidge
E-mail: emblidge@moran.com (Daniel R. Emblidge)
Date: 09/22/95
Time: 22:31:30

This message was sent by Chameleon 4.5

294. cancel

From: "Daniel R. Emblidge" <emblidge@ns.moran.com>
Date: Fri, 22 Sep 95 22:33:35 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.95092223345.emblidge@emblidge.moran.com>
Rendered body type: text/plain

Name: Daniel R. Emblidge
E-mail: emblidge@moran.com (Daniel R. Emblidge)
Date: 09/22/95
Time: 22:33:35

This message was sent by Chameleon 4.5

295. Re: [APRSSIG:3425] Re: one more thing

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 23 Sep 1995 01:33:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950923013021.19522A-100000@greatlakes>
Rendered body type: text/plain

On Fri, 22 Sep 1995, Ralph Fowler, N4NEQ wrote:

> >> Let the WX report also go thru an alternate path.
> >REPLY: They do, a WX report is a POSIT report
>
> So, then, can I have one path for normal operations set up (that my local
> "chatting" messages go through), and another for my posit reports. This
> would keep the chatting off HF.

REPLY: Yes, you can individually ROUTE each message, by entering /XX after
the T0 callsign. This will tell APRS to use the path XX from your OPS-DIGI
list for that message...

296. Re: [APRSSIG:3428] Error 5

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 23 Sep 1995 01:38:11 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950923013627.19522B-100000@greatlakes>
Rendered body type: text/plain

On Fri, 22 Sep 1995 LCCENG@delphi.com wrote:

> I am trying to help my dad, father-in-law, K2AXQ , use APRS.
> He gets the message:
>
> oOOPS, Error 5

REPLY: That is an illegal Function call which means that APRS could not find
a standard VGA, EGA or CGA video card. Usually it means you are running a
hercules or some other incompatible video card...

297. Hornets nest

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Sat, 23 Sep 1995 07:46:05 -0500
To: aprssig@tapr.org
Message-ID: <199509231246.HAA23836@uxa.ecn.bgu.edu>
Rendered body type: text/plain

Someone stirred up a big fuss on the vhf reflector by posting a message on
a local pbbs stating APRS was going to use 144.180 MHz for 300 baud packet.
Since this frequency is in the heart of the weak signal section of the
2 meter band, some of the weak signal users are getting hot under the collar.
Hopefully cooler heads will prevail and if there really is a need to have a
ssb 2m packet APRS frequency, it can be established elsewhere.

73, Jay...

Jay Hainline KA9CFD EN40
Macomb, IL
msjth@uxa.ecn.bgu.edu

298. Question for KAM users

From: Bob Hartman <n8mwz@alpha.wcoil.com>
Date: Sat, 23 Sep 1995 09:38:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSD.3.91.950923093209.12935A-100000@alpha.wcoil.com>
Rendered body type: text/plain

A friend of mine who doesn't have Internet access asked if I would forward the following question to the SIG. It appears that when he runs APRS (he is currently on version 72D) that it changes the date stored in his TNC to an unrecognizable format. He is not running GPS or anything fancy, just the computer, radio and the KAM all mode TNC. His the text of his packet message appears below. I will forward all replies to him.

The APRS software scrambles the Kam's DAYU command which is for the date and time. "RESTORE.TNC" in APRS won't reset this because of the constant time and date change.
Here is an example:

```
KB2LML/V* > APRS 1F/25/FF 15:52:15
K04HD/V* > ID 1F/25/FF 15:54:47
KU0G-2/V* > WX 1F/25/FF 15:54:56
KA8ZGE/V* > APRS 1F/25/FF 15:55:09
KB8QEW/V* > APRS 1F/25/FF 21:28:24
KB8LLL/V > APRS 1F/26/FF 00:10:47
```

Also the program (72D) and TNC seem to lock up if left on overnight. I then have to reboot the computer. Any ideas?

{end of quote}

```
////////////////////
// Bob Hartman, N8MWZ //
// TAWG member OH89 //
// <n8mwz@amsat.org> //
////////////////////
```

299. Re: [APRSSIG:3433] Hornets nest

From: n2czf@gate
Date: Sat, 23 Sep 1995 13:29:05 +0000
To: aprssig@tapr.org
Message-ID: <199509231429.KAA72971@tequesta.gate.net>
Rendered body type: text/plain

I can see some concern, if we were to use 2M SSB that would also mean that most of use would be avid 2M weak signal people also so I would hope that common sense would prevail.
I hear A LOT of FM here in the South Florida area and in the NY area there were many remote bases on FM in the area and that bothered me. I look forward to some weak signal packet but remember we are also doing weak signal, just because it is not voice does not mean that it is not weak signal, CW is also weak signal and much slower than packet. I do not now but chances are that we will also be using 1200 baud which make is much faster. When that time comes I am sure we will use good judgement and courtesy to our FELLOW SSB'ers on 2M. SSB equipment is not "a dime a dozen" so I would guess most of us will be seasoned VHF SSB operators.

73's Rich N2CZF EL96EE
n2czf@gate.net

300. INSURENCE

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 23 Sep 1995 13:06:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950923130002.20324A-100000@greatlakes>
Rendered body type: text/plain

GOOD news and BAD news

GOOD NEWS: You can get a 15% reduction in your COMPREHENSIVE automobile coverage by having an automatic ANTI-THEFT system such as LOJACK (or APRS!)

BAD NEWS: On my 3 vehicle insurance policy, paying at least \$800 every 6 months, the COMPREHENSIVE even on my newest vehicle is only \$14. So for a \$600 investiment in APRS tracker, I'd save \$4 a year.

TOO BAD! I was going to use this as an excuse so my wife would let me drill a hole in the roof of her new car...

301. APRS I/O Drivers (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 23 Sep 1995 13:21:09 -0400 (EDT)
To: aprssig@tapr.org
Cc: colla@lugate.pec.pccp.com
Message-ID: <Pine.SUN.3.91.950923131516.20324D-100000@greatlakes>
Rendered body type: text/plain

Concerning the often asked question of making APRS work with BAYCOMS and other I/O systems, here is my response. If someone can identify a DRIVER that when loaded, LOOKS LIKE either COM1 or COM2 to the PC, then it should work transparent to APRS.

Here is the background. APRS was written in QBasic. Its only I/O goes through the COM1 or COM2 serial ports. Alll of the details are handled by the QBasic compiler. Here are the types of QBasic statements I use for example when using COM1:

```
OPEN "9600:N,8,1,CS0,CD0,DS0" for RANDOM as #1
PRINT #1, a$
INPUT #1, a$
LINE INPUT #1,a$
a$=INPUT$(LOC(1),1)
IF EOF(1) then...
CLOSE #1
```

Again, as everyone suggests, it should be "easy" for someone to write a DRIVER for the BAYCOM that looks like COM2. Good luck... hi hi

302. DeadReckoning

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 23 Sep 1995 13:27:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950923132235.20324E-100000@greatlakes>
Rendered body type: text/plain

What happened. I was just watching WB3V go to the local candy store, and was going to mark the store on my local map. THEN I noticed that when he went inside the store, that he DID NOT DR.....

Where did I break this? I know a lot of you have DR turned off, but I like it... Is DR not working in 73a? or is this a new "feature" in 73b.

I can go dig it out of the code and find out what changed, but I need to know how many versions back are affected... Send REPLYs to ME, not the SIG...

303. Corrections to Balloon Launch Notice

From: elliott@itek.net
Date: Sat, 23 Sep 1995 13:00:55 -0500
To: aprssig@tapr.org
Message-ID: <199509231800.NAA22121@balrog.itek.net>
Rendered body type: text/plain

**** PLEASE DISREGARD PREVIOUS LAUNCH NOTICE! ****

The Central Illinois Balloon Assoc. (CIBA) is planning its third high altitude balloon launch on Saturday, September 30th at 9:00am. Rain date is Sunday, October 1st. The details of the flight are listed below.

Balloon: 1200 gram Totex
Est. max altitude: ~ 90,000 feet
Payload weight: 8.5 lbs.
Parachute: 7.5 foot dia.
Gas: Helium
Ascent rate: ~ 800 feet/min.

Launch Site: Washington, IL.
Latitude: 4043.048 N
Longitude: 8922.580 W

Radios: GPS data on APRS freq. of 145.79 Mhz.
Crossband repeater 147.585 Mhz INPUT with TONE of 146.2 Hz
446.025 Mhz OUTPUT

Call Signs: Balloon - N9WST-11
Crossband Repeater - N9XHJ/R

DF Teams will use the following freq. 147.255 Mhz. (+ offset) K9UQF/R
146.895 Mhz. (- offset) KA9IHD/R
with 103.5 Tone
146.515 Mhz. CAR to CAR

Note: The flight will contain two separate payload containers.....one containing the GPS/APRS equipment and transmitter and the other will contain the crossband repeater. This should eliminate the desense of the GPS equipment.

Stations watching the flight on APRS.....please drop us a line and let us know your QTH and signal strength reports.

Mark Elliott de N9WST@W9UVI.IL.USA.NOAM

304. Win- 95/APRS73b Thankyou

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Sat, 23 Sep 1995 14:05:21 +0000
To: aprssig@tapr.org
Message-ID: <199509231805.OAA13636@hemisphere.neocomm.net>
Rendered body type: text/plain

I am running beta test version 73b in Windows-95. So far it is behaving nicely. It is very nice to again be able to write this email without having to first quit APRS.

For those of you who ask "why run a program in the background (or even suspend it) Have someone demonstrate Windows to you. The ability to multitask is great! I can be on the internet downloading a program, while at the same time watching a packet program. If I see a new call on packet I can look it up in Sam database, then come back and finish this letter. All this information can be seen on one screen, in "windows" of assorted sizes, or on separet full screen displays. You may switch between each application with a click of the mouse or via keyboard. There are of course other multitasking enviroments, but I believe " Microsoft Windows" tends to be the most popular. Shure it is great to have programs that take advantage of stand alone older pc's , I use those too!

Again Thanks BOB and all the others who help with APRS.

Charles
cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
WB4PAN@WB4Q0J.VA.USA.NOAM

305. WINDOZ background

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 23 Sep 1995 14:33:20 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950923142641.20471B-100000@greatlakes>
Rendered body type: text/plain

Stupid me, I thought "background" meant the program was hidden from view but still active. That is what I designed the DOZ function in 73b for. It goes to a BLANK text screen to eliminate any VIDEO mode problems while it may be running in the bacakground... Then when you bring it back to the "foreground" which I assumed meant "full screen", then you could hit the space bar and get the LATEST map re-drawn to see what all had happened while it was in the background...

Someone now informs me that "background" may also mean it is running in a smaller window so you can still see what it is doing while you are in the middle of doing something else.... This mode works if you configure your whole machine to 16 colors only, which reduces the capability of most other modern appllictions... So I guess DOZ mode does nothing here....

BUGS noted so far in 73b:

- 1) The ALTPATH in the OPS-DIGI command still does not work
- 2) Dead Reckoning no longer works??? I need to confirm this...

306. DELORME MAPS!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 23 Sep 1995 14:41:36 -0400 (EDT)
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.950923143328.20471C-100000@greatlakes>
Rendered body type: text/plain

OK, here is a VERY EXCITING challenge for you:

1) Delorme street expert allows you to add things to your maps and then to SAVE them as an "overlay".

This tells me that there is a FILE somewhere saved to your Hard Disk that contains the POSITION of the object you wanted added to your map!

ALL WE NEED TO DO IS FIGURE OUT THE FORMAT OF THIS FILE!!!

Then It is trivial for me to have APRS write out the location of all of its POSITS into a file on your HD in the DELORME format!

Here is the test. PLACE ONE OBJECT on your delorme map. Save it as an overlay. Use what ever tools you have available to figure out the format of this file...

Then PLACE 2 OBJECTS on your map and again confirm that you have figured out the FORMAT. If so, send it to me, wait a week, and BINGO, we will have an automatic APRS interface to DELORME CD ROM MAPS NATIONWIDE that does NOT need the current 2 computer, 2 serial port mechanism that we currently require...

307. Re: [APRSSIG:3437] APRS I/O Drivers (fwd)

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 23 Sep 95 14:46:36 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.811881996.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

> Concerning the often asked question of making APRS work with BAYCOMS

Unfortunately, writing a 'driver' to make a BAYCOM look like a 'normal' TNC is not that easy.. The 'driver' has to do all sorts of stuff including put the data into the format that has to go over the air, take care of the push-to-talk line, look at DCD for incoming data, put the bits together, check check-sums to see if the data is valid, etc, etc, etc...

This is actually worse than talking to a KISS mode TNC. However, there are some 'drivers' already written to make a BAYCOM look like a KISS-MODE TNC.

On the flip side of the coin, there are a LOT of advantages to doing APRS in KISS mode.. You can have the packets go out many different paths, dynamically change paths as conditions and needs change, and in the case of

- * Messages
- * Message ACKS
- * Query responses
- * etc.

The path can be changed depending on who you want to send the message to, (or send an ACK to) and in the case of queries, the path is chosen depending on where the query came from..

In the case of DUAL port TNCs (DSP-2232, PK-900 Kantronics KAM) the Mac version already only sends messages and message-acks to the appropriate band, later on, when I get around to supporting KISS TNCs, I will be adding the stuff listed above, HOWEVER, this will be quite some time before this gets implemented..

There are some 'drivers' for doing this type stuff being worked on by Tim Hayes, N2KBG (See the paper by him and Mark Sproul, KB2ICI in this year's ARRL DCC proceedings).

Keith Sproul

Keith Sproul
Student Housing Network Coordinator
Rutgers University Computing Services
<http://www-ns.rutgers.edu/~ksproul/>

Ham Radio: WU2Z
ksproul@noc.rutgers.edu
908 445-3695 Work
908 821-4828 Home

308. DR is OK, nevermind

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 23 Sep 1995 15:53:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950923155118.20620A-100000@greatlakes>
Rendered body type: text/plain

OOPS, My clock was a day off. That is why APRS was NOT Dead Reckoning...
It works fine in 73a and 73b. False alarm.
Nevermind. no replys, etc
SK
QRT
etc...

309. Re: [APRSSIG:3426] Re: BETA test of 73b

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sat, 23 Sep 1995 16:24:22 -0500
To: aprssig@tapr.org
Message-ID: <9509232124.AA04689@omnifest.uwm.edu>
Rendered body type: text/plain

Ed,

Thank you VERY much for a most interesting and informative program this morning.

Please keep in touch.

David W. Barrow III, N9UNR
FC-WI (WAR/MACC)
dbarrow@omnifest.uwm.edu
n9unr@execpc.com

Check out the ham area on Omnifest.

CUL & 73 de Dave

=====
David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.ENG3BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

310. Re: [APRSSIG:3436] INSURENCE

From: rwf <rwf@mindspring.com>
Date: Sat, 23 Sep 1995 17:51:17 -0400
To: aprssig@tapr.org
Message-ID: <199509232151.RAA14863@dylan.mindspring.com>
Rendered body type: text/plain

You must have all Daughters and no boys under age 26 :)

I let my wife put APRS's ALARM mode on my car when I am parked at the airport. At least she will know the car moves when it gets stolen. Does the ALARM also go off when there has been no pos report for a certain length of time (ie: the thief disconnected the system)

At 12:08 PM 9/23/95 -0500, you wrote:

>GOOD news and BAD news

>

>GOOD NEWS: You can get a 15% reduction in your COMPREHENSIVE automobile coverage by having an automatic ANTI-THEFT system such as LOJACK (or APRS!)

>

>BAD NEWS: On my 3 vehicle insurance policy, paying at least \$800 every 6 months, the COMPREHENSIVE even on my newest vehicle is only \$14. So for a \$600 investment in APRS tracker, I'd save \$4 a year.

>

>TOO BAD! I was going to use this as an excuse so my wife would let me drill a hole in the roof of her new car...

>

>

311. Re: [APRSSIG:3446] Re: INSURENCE

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 23 Sep 1995 18:41:55 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950923183919.20778C-100000@greatlakes>
Rendered body type: text/plain

On Sat, 23 Sep 1995, rwf wrote:

> I let my wife put APRS's ALARM mode on my car when I am parked at the
> airport. At least she will know the car moves when it gets stolen. Does
> the ALARM also go off when there has been no pos report for a certain length
> of time (ie: the thief disconnected the system)

REPLY: No, only responds to movement... You must have a good battery!

312. Re: [APRSSIG:3416] BETA test of 73b

From: Barbara Fehner <fehner@cts.com>
Date: Sat, 23 Sep 95 17:22 PDT
To: aprssig@tapr.org
Message-ID: <m0swepa-000V0ZC@mailhub.cts.com>
Rendered body type: text/plain

At 07:03 PM 9/21/95 -0500, you wrote:

>
>BETA TEST OF EXE73b.ZIP: Contains APRS73b.exe ONLY. I need some tests:
>1) Im trying to behave better in the background under WINDOZ
>2) I changed the code which sets up the video mode. Try 73b on CGA's
> and BW monochromes, and 8088 laptops, and be sure I did not
> bust it.
>3) As soon as someone clarifies that calling INTERRUPT(22) will help in
> a multitasking environment, I will add that too, but I was afraid to
> put it in until I got positive info on its use...
>

I tried it with Win 3.1 and I also get an error #5 as soon as the first position report comes in. This happens in full screen in the foreground after F10 is pressed. I have a standard SVGA card and am using 800X600-256 mode.

Barbara KK6IB
E-Mail: fehner@cts.com

313. Re: [APRSSIG:3442] DELORME MAPS!

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Sat, 23 Sep 1995 17:48:46 -0700
To: aprssig@tapr.org
Message-ID: <199509240048.RAA07914@ix2.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>OK, here is a VERY EXCITING challenge for you:
>
>1) Delorme street expert allows you to add things to your maps and then
>to SAVE them as an "overlay".

"Street Expert"? Delorme has Map Expert and Street Atlas USA. I have Street Atlas USA v2.0 and it does not have overlays.

Map Expert is a more advanced and sophisticated version of Street Atlas USA. I don't have it but I am familiar with some of its features.

I just got an upgrade notice for Street Atlas USA v3.0. I ordered it. Hopefully it has "overlays" - I know it has a lot of other new features that 2.0 lacked.

Jack

314. Re: [APRSSIG:3416] BETA test of 73b

From: Jeff Ward <jward@marlin.gulf.net>
Date: Sat, 23 Sep 1995 21:38:56 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.90.950923213539.19367A-100000@marlin.gulf.net>
Rendered body type: text/plain

Hi Bob,

I thought it strange that you couldn't reproduce the problem...I had another ham try it before I emailed you and he got the same result I got. So I went back a played a bit. Seems as long as you enter a course and speed all is well....but if the depression is stationary (i.e. we both just hit return for course and speed, accepting the default 0's) then it comes up yellow. Does that give you the same result? All of this testing was done in 73a so if things have changed in 73b then it may be a moot point anyway. Thanks for looking into it.

Jeff Ward, N4TRY

On Sat, 23 Sep 1995, Bob Bruninga wrote:

```
> I cannot reproduce this problem. Can you?
>
>
> On Thu, 21 Sep 1995, Jeff Ward wrote:
>
> >
> > Bob,
> > While you're working on the beta test version, I think there's a bug
> > when you define a Tropical Depression. Hurricanes are coming out red,
> > tropical storms are coming out yellow, but when you define a TD they are
> > also coming out yellow instead of green or blue (or whichever they're
> > supposed to be). If you get a chance could you look into it please?
> > Thanks again for all the support.
> > 73
> > Jeff, N4TRY
```

315. 7.3b bug

From: HENRYVB@aol.com
Date: Sat, 23 Sep 1995 23:14:34 -0400
To: bruninga@nadn.navy.mil
Cc: aprssig@tapr.org
Message-ID: <950923231433_27586360@mail04.mail.aol.com>
Rendered body type: text/plain

here's a bug in 7.3b beta running under win 3.11:

if you press f10 while on the view packets screen, 7.3b gives the following error:

```
-----
***
LM,PM: 1      1
a,I,J,K,fdx,LDx:-1  48  0  78  0  22
X,Y,X1,Y1 41.97461 -77.18726  41.97461 -77.18726
A$ D
c$
ES$Finished RcvPkt
OOOPS! ERR number 5 Hit ENTER to return to DOS?
-----
```

oops is right. got it 3 times during testing.

otherwise, f10 on the map screen appears to work good so far under win 3.11

here's another bug, as long as i am writing. starting with 7.2d i noticed that i would get "your packet was not digipeated" (or whatever it says) messages on packets that DID get digipeated. it happens on several different machines, as i confirmed it today on two other users running 7.3a. what's up with that one?

thanks bob

henryvb@aol.com

316. Patch Antenna

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Sat, 23 Sep 1995 22:56:51 -0500
To: aprssig@tapr.org
Message-ID: <199509240353.WAA28643@sys1.tapr.org>
Rendered body type: text/plain

Just finished building the patch antenna and am pleased by it! I had a Magellan Trailblazwe that had quit working and I suspected the antenna. When I tried the patch antenna it not only worked but locked faster than it ever did with the stock attena.

I also tried the patch antenna with my Garmin 45 it also locked faster. I did notice several things. It did better on sat's low on the horizon, signal strength changed more due to movment and obstacles than the stock Garmin antenna, and the speed and accuracy numbers were higher than the stock antenna. I'll have to try an MMIC amp next! All in all it seems to be a very functional antenna, which also worked okay on the cell phone; I'll have to cut one for those freq's and stash it in the rear window deck,

barrett

317. Powerbook wiring

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Sat, 23 Sep 1995 23:04:02 -0500
To: aprssig@tapr.org
Message-ID: <199509240400.XAA28709@sys1.tapr.org>
Rendered body type: text/plain

Help!!

Could one of you kind folks educate me on the art of connecting a gps/tnc to the apple powerbooks serial port?

Thanks in advance

318. Re: [APRSSIG:3451] 7.3b bug

From: Cap Pennell <cap@cruzio.com>
Date: Sun, 24 Sep 95 2:35:10 PDT
To: aprssig@tapr.org
Message-ID: <199509240935.CAA25130@mail.netcom.com>
Rendered body type: text/plain

HENRYVB@aol.com writes:

> here's another bug, as long as i am writing. starting with 7.2d i noticed
> that i would get "your packet was not digipeated" (or whatever it says)
> messages on packets that DID get digipeated. it happens on several
> different machines, as i confirmed it today on two other users running 7.3a.

happens here too. As long as I'm writing: SSID of -2 used with gps tracker doesn't show a bus (I have to put {U} at the beginning of my BTEXT to show my bus). -2 alone shows a "dot" with a B inside. -9 does still show a car though (and -6 shows a sailboat;-14 shows a truck). I dont know about the other numbers.

Also, after I hit O,C,T to talk to the tnc, and then hit ESC to return to APRS, I get a message(line25) about "can't disconnect-Link state is DISCONNECTED" and a message in the upper right box about HSP mode being toggled back to tnc. I do not toggle HSP mode in the tnc blue screen, but it "acts like" I do.
73. Keep up the good work.

--

+-----+
Cap Pennell email: cap@cruzio.com Lat/Long:3658.92N/12200.88W
Santa Cruz, CA packet radio: ke6afe@kg6ee.#cenca.ca.usa.noam
+-----+

319. RE: [APRSSIG:3449] Re: DELORME MAPS!

From: Doug Smith <dougs@ccnet.com>
Date: Sun, 24 Sep 95 06:08:15 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950924061232.dougs@ccnet.ccnet>
Rendered body type: text/plain

On Sat, 23 Sep 1995 19:55:36 -0500 Jack Anderson wrote:

>"Street Expert"? Delorme has Map Expert and Street Atlas USA.
>I have Street Atlas USA v2.0 and it does not have overlays.

I have Street Atlas too. I purchased it thinking I would be able to print maps, share the maps with others, use them in presentations etc. Come to find out after calling their support person that that was a violation of my license agreement. I wrote them and fax'd a letter saying how dissappointed I was. There was nothing about the MAJOR restrictions on use of the product on the box! Then came the bait and switch. It was suggested I buy their more expensive product, Map Expert. That too has restrictive license terms. I wasn't impressed with these people from the start.

ORIGIN: Doug Smith dougs@ccnet.com
Pleasant Hill, CA http://www.ccnet.com/~dougs/
WA6GON Packet/APRS/RTTY/SWL
Sysop Douglas.Smith@f911.n161.z1.fidonet.org

320. Re: [APRSSIG:3455] Re: DELORME MAPS!

From: wnolle@ro.com (William Nolle)
Date: Sun, 24 Sep 1995 09:40:42
To: aprssig@tapr.org
Message-ID: <199509241446.JAA03071@sh1.ro.com>
Rendered body type: text/plain

Doug, your so wrong, i just looked at my copy of the DeLORME street Atlas and if you read the license agreement it states in part as follows:

Printouts may not be reproduced in any manner for distrobution outside your household, bussiness or institution.

So if you just found that out by calling them you should have read the license aggreement first, i know many people don't bother to do that but it's there believe me.

Bill KE4EER

>I have Street Atlas too. I purchased it thinking I would be
>able to print maps, sahre the maps with others, use them in
>presentations etc. Come to find out after calling their support
>person that that was a violation of my liscense agreement. I
>wrote them and fax'd a letter saying how dissappointed I was.
>There was nothing about the MAJOR restrictions on use of the
>product on the box! Then came the bait and switch. It was
>suggested I buy their more expensive product, Map Expert. That
>too has restrictive license terms. I wasn't impressed with
>these people from the start.

>
>
>
>
>-----
>ORIGIN: Doug Smith dougs@ccnet.com
>Pleasant Hill, CA http://www.ccnet.com/~dougs/
>WA6GON Packet/APRS/RTTY/SWL
>Sysop Douglas.Smith@f911.n161.z1.fidonet.org
>-----
>

321. Re: [APRSSIG:3453] Powerbook wiring

From: kb8tum@grfn.org (Matt Cuttitta)
Date: Sun, 24 Sep 95 10:54:41 EDT
To: aprssig@tapr.org
Message-ID: <9509241454.AA01039@genesee.freenet.org>
Rendered body type: text/plain

>Help!!
>Could one of you kind folks educate me on the art of connecting a gps/tnc to
>the apple powerbooks serial port?
Sure. How many pins is on your computer serial port? How many pins are on
your TNC?
Please Reply,

Matt Cuttitta
Flint, MI

322. Re: [APRSSIG:3453] Powerbook wiring

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Sun, 24 Sep 95 12:07:28 EDT
To: aprssig@tapr.org
Message-ID: <9509241607.AA14376@umed.med.miami.edu>
Rendered body type: text/plain

>
> Help!!
> Could one of you kind folks educate me on the art of connecting a gps/tnc to
> the apple powerbooks serial port?
>
> Thanks in advance
>
>
A real can of worms there, especially if you have a single serial port
and want both GPS and the TNC. It can be done, but not without \$\$\$\$. What
specific equipment do you have and how do you want to use it?

Steve, K04HD
sdimse@umed.med.miami.edu

323. Re: [APRSSIG:3440] Win- 95/APRS73b Thankyou

From: sproul@ap.org (Mark Sproul)
Date: Sun, 24 Sep 1995 12:13:12 -0400
To: aprssig@tapr.org
Message-ID: <v02110103ac8b32951086@[165.1.27.20]>
Rendered body type: text/plain

> I am running beta test version 73b in Windows-95. So far it is
>behaving nicely. It is very nice to again be able to write this
>email without having to first quit APRS.
>
> For those of you who ask "why run a program in the background
>(or even suspend it) Have someone demonstrate Windows to you. The
>ability to multitask is great! I can be on the internet downloading
>a program, while at the same time watching a packet program. If I see
>a new call on packet I can look it up in Sam database, then come back
>and finish this letter. All this information can be seen on one
>screen, in "windows" of assorted sizes, or on separet full screen
>displays. You may switch between each application with a click of the
>mouse or via keyboard. There are of course other multitasking
>enviroments, but I believe " Microsoft Windows" tends to be the
>most popular. Shure it is great to have programs that take advantage
>of stand alone older pc's , I use those too!
>
>Again Thanks BOB and all the others who help with APRS.

Gee guys, we on the Mac have been able to run multiple programs for at least the last 5 or 6 YEARS. I many times am working on writting software, connected to internet, running MacAPRS, compiling a different program and reading email all at the same time. I regularly run 10-12 programs at a time and have had as many as 50 different windows open at one time (on a 20" monitor for those that think having 50 windows open is unmanagable, its not).

my \$.02 worth.

Mark

Mark Sproul	Amateur Radio: KB2ICI
Software Engineer @ Assoc Press	AppleLink: Sproul.M
sproul@eos.ap.org	Work: 609-860-7120
North Brunswick, NJ	Fax: 609-860-7129
http://pilot.njin.net/~msproul	

324. Re: [APRSSIG:3453] Powerbook wiring

From: rtm@newton.apple.com (Bob Martin)
Date: Sun, 24 Sep 1995 10:03:56 -0700
To: aprssig@tapr.org
Message-ID: <v02130500ac8b3d9681fc@[17.205.12.193]>
Rendered body type: text/plain

>Help!!
>Could one of you kind folks educate me on the art of connecting a gps/tnc to
>the apple powerbooks serial port?
>
>Thanks in advance

It's easy- here's a previous post to the group- the important point is that pin 8 (RX+) on the Mac side is floating- on many connectors, and on true RS-232 signals that swing from + to -, RX+ is connected to ground, sometimes right in the 8 pin connector. If you don't like the idea of leaving RX+ floating, then you can bias it high (about +1 volts).

(The Mac serial interface is RS-422, which is differential- a close approximation of RS-232 is obtained by using the TX- and TX+ lines, ignoring TX+, and connecting RX+ to ground. If the incoming signal doesn't go far enough below the level on RX+, such as the NMEA 0183 signal, the differential receiver doesn't see anything. This is why you need to either float, or bias high the RX+ pin. One easy way to bias RX+ high is using the voltage drop across a standard LED- about 1.2 volts. You power the LED (it won't light up) by diode or'ing TX+ and TX- together with small signal diodes (1n914 or 1n4148, etc.), and using that signal to pull up the LED through a 4.7k ohm or so resistor).

These approaches work for me with a Garmin GPS45 on my PowerBook 170, and on my Newton.

To connect the Garmin 45 to a Mac the following works well (at least on my PowerBook 170).

The easiest thing is to get a printer cable which has a couple of 8 pin mini DIN plugs on it and cut it in half. Identify each wire connection to the relevant pin on the plug and solder the Garmin 45 cable wires as follows:

Garmin cable colour	Signal	8 pin mini DIN
Black	Ground	4
White	Data In	3
Brown	Data Out	5

The pins on the 8 pin mini DIN plug attached to the cable are numbered thus when looking into the pins (sorry for the poor drawing):

```

  /-----\
 / 6 7 8  \
 |         |
 | 3 4     | 5 |
 |         |
 \ 1       2 /
  \-----/
  \       /

```

325. RE: [APRSSIG:3455] Re: DELORME MAPS!

From: "Daniel R. Emblidge" <emblidge@ns.moran.com>
Date: Sun, 24 Sep 95 17:00:14 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950924170430.emblidge@emblidge.moran.com>
Rendered body type: text/plain

Are there any comments on Microsoft Automap Streets? (Windows 95) Just got it and am very impressed with it.

It is a 2 CD set. I am just starting out on this APRS, GPS, Maps, etc etc. Is there some form of integration with all this stuff now or down the road I can look forward to?

Name: Daniel R. Emblidge
E-mail: emblidge@moran.com (Daniel R. Emblidge)
Date: 09/24/95
Time: 17:00:15

AA20T FN03PC

This message was sent by Chameleon 4.5

326. Re: [APRSSIG:3461] Re: DELORME MAPS!

From: kb7qqq@nwlink.com (Sam Roe)
Date: Sun, 24 Sep 1995 23:18:35 GMT
To: aprssig@tapr.org
Message-ID: <199509242311.QAA15561@washington.nwlink.com>
Rendered body type: text/plain

On Sun, 24 Sep 1995 16:06:07 -0500, you wrote:

>Are there any comments on Microsoft Automap Streets? (Windows 95) Just got it and am very impressed with it.

>It is a 2 CD set. I am just starting out on this APRS, GPS, Maps, etc etc. Is there some form of integration

>with all this stuff now or down the road I can look forward to?

>-----

PLS tell me more about Automap for Win 95 (ie. price, features, etc)
Will it take GPS inputs?

Thanks in advance.

Sam Roe
kb7qqq@nwlink.com
Tactical Area Communications
A Member of Pierce County Search & Rescue

327. APRS in background

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 24 Sep 1995 20:35:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950924201712.23102A-100000@greatlakes>
Rendered body type: text/plain

Im getting some feedback, but remember, I dont do windows, and I am ignorant of HOW you are using the program UNDER windows and what kind of FEEL it gives you...

So when you say it is working in the background, I need to know more...

- 1) Is this NEW? Did it NOT run for you OK before the DOZ mode?
- 2) Does DOZE solve any video incompatibility you had before?
- 3) One station reported he had to be in 43 line mode before DOZE... This didnt make sense, since DOZE puts it into the most basic of 25x80 line TEXT mode only...

The problem I thought I was solving was that everyone said that APRS DID work fine in the background as long as you set your PC to 16 color mode only. And they didnt like that because it severely restricted OTHER programs. Is DOZE solving that problem? Was that the problem in the first place?

What are the terms I should be using? I hear terms like:

- 1) DOS MODE
- 2) DOS window
- 3) FULL SCREEN
- 4) Background
- 5) Minimized
- 6) "in a window"

Im sorry to be so illiterate, but Id rather fix APRS than spend the time trying to convert all my machines over to windows right now and trying to get up to the level of expertise of so many of you hi hi....

I DO expect 73b to crash in the background until I go through the program and disable EVERYTHING that can possibly print to the screen, and I am sure that there are plenty... I didnt want to do this until I found out if I was on the right track or not... with this DOZ thing....

So can someone DEFINE the terms above into the SPECIFIC "modes" under which you would like to see APRS run, and what it does or doesnt do in each of those cases.. I would suggest that the person that wants to take this "hand-holding" exercise on, should tell us all so that you dont duplicate efforts, and so we all are starting from the same understanding. THANKS FOR YOR PATIENCE!! hi ih

328. Re: [APRSSIG:3455] Re: DELORME MAPS!

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Sun, 24 Sep 1995 17:44:08 -0700
To: aprssig@tapr.org
Message-ID: <199509250044.RAA01494@ix3.ix.netcom.com>
Rendered body type: text/plain

>suggested I buy their more expensive product, Map Expert. That
>too has restrictive license terms. I wasn't impressed with
>these people from the start.

I wasn't either. I get an icky feeling when a vendor tiers their products this way. Street Atlas seems like it is a crippled version of Map Expert. I couldn't believe it didn't have lat/lon. That's easy to do.

Jack

329. RE: [APRSSIG:3456] Re: DELORME MAPS!

From: Doug Smith <dougs@ccnet.com>
Date: Sun, 24 Sep 95 17:44:27 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950924174710.dougs@ccnet.ccnet>
Rendered body type: text/plain

On Sun, 24 Sep 1995 09:54:59 -0500 William Nolle wrote:

>Doug, your so wrong, i just looked at my copy of the DeLORME
>street Atlas and if you read the license agreement it states

Uh Bill, read the outside of the box. If I'm not mistaken the

restrictions on use won't be there. Yes I read the fine print
After I got it home, loaded up on the CD-ROM and after I called
their so called Customer Service with a question. I'd say their
customer service is more slanted toward protecting their product
from being used.

ORIGIN: Doug Smith dougs@ccnet.com
Pleasant Hill, CA http://www.ccnet.com/~dougs/
WA6GON Packet/APRS/RTTY/SWL
Sysop Douglas.Smith@f911.n161.z1.fidonet.org

330. DELORME MAPS!

From: rwf <rwf@mindspring.com>
Date: Sun, 24 Sep 1995 22:21:16 -0400
To: aprssig@tapr.org
Message-ID: <199509250221.WAA23418@dylan.mindspring.com>
Rendered body type: text/plain

While we are talking about maps....

Ytou may have heard me mention City Streets for windows. This is a GPS
compatible disk based street atlas clone. The pgm is about 40.00 and comes
with one free region on disk (your choice). Additional regions are a few \$\$.

It had Lat/Long and allows placing of objects on the screen. It supports
ONLY the Rockwell Marco Polo pcm/cia card GPS.

I had been talking to Keith Hendricks, the Owner of Road Scholar Software
about our needs and had it under good authority that they were going to add
nmea gps support soon.

Well, it turns out that Etak, the people who make their maps has a choke
hold on Road Scholar. As I heard it from Hendricks, they may even take out
the Rockwell support. Story is that Etak makes the maps for one of the
vehicle direction systems (maybe that Sony/Avis thingie??). Etak isn't
about to allow any one else to threaten that business. So they are not
allowing *anyone* else to use a gps interface in conjunction with their maps.

I was about to write Hendricks & Co off, when I thought about asking him if
there was a way to feed some object locations to the pgm with a disk file ,
like Bob is doing with Streets on Disk, I think. He thought about it a
while and said tht is seemed like it would not be a problem with his Etak
agreement. Then he wanted to know who was going to pay him to develop this.

Folks, is it worth continuing to try to get this guy to support us?
Sprouls- What is your take on this?
He has claimed that no one else besides me has ever asked him for nmea
support. I know that is not true.

Should I just completely write him off?

Sure seems like the people that own the maps are really protective (Etak,
Delorme)

Ralph

331. Re: [APRSSIG:3442] DELORME MAPS!

From: rwf <rwf@mindspring.com>
Date: Sun, 24 Sep 1995 22:21:20 -0400
To: aprssig@tapr.org
Message-ID: <199509250221.WAA23438@dylan.mindspring.com>
Rendered body type: text/plain

Hmmm-- I was just re reading themessage quoted below.
The City Streets for windows program I just mentioned does this too. I will
investigate its format.
Bob could write out the positions in the format it wants.

At 01:50 PM 9/23/95 -0500, you wrote:
>OK, here is a VERY EXCITING challenge for you:
>
>1) Delorme street expert allows you to add things to your maps and then
>to SAVE them as an "overlay".
>
>This tells me that there is a FILE somewhere saved to your Hard Disk that
>contins the POSITION of the object you wanted added to your map!
>
>ALL WE NEED TO DO IS FIGURE OUT THE FORMAT OF THIS FILE!!!
>
>Then It is trivial for me to have APRS write out the location of all of
>its POSITS into a file on your HD in the DELORME format!
>
>Here is the test. PLACE ONE OBJECT on your delorme map. Save it as an
>overlay. Use what ever tools you have available to figure out the
>format of this file...
>
>Then PLACE 2 OBJECTS on your map and again confirm that you have figured
>out the FORMAT. If so, send it to me, wait a week, and BINGO, we
>will have an automatic APRS interface to DELORME CD ROM MAPS NATIONWIDE
>that does NOT need the current 2 computer, 2 serial port mechanism that
>we currently require...
>
>
>

332. CAP Document

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Sun, 24 Sep 1995 21:39:15 -0500
To: aprssig@tapr.org
Message-ID: <199509250235.VAA26018@thymaster.interaccess.com>
Rendered body type: text/plain

Hi All,

As you may have read here awhile back the AZ Wing of CAP put together a report about APRS including an excellent section on hardware.

I have a copy and thanks to Henry N9WMM and his scanner its been turned into a text file. I've just posted it to the TAPR site as AZCAPSTF.TXT, I'll also put the Photos and drawings mentioned in text as a .zip file in the next few days.

CUL
Ed
N9LCI

333. Re: [APRSSIG:3438] DeadReckoning

From: wjh@ideas.com (William J. Howard)
Date: Mon, 25 Sep 95 08:07:48 EDT
To: aprssig@tapr.org
Message-ID: <9509251207.AA17634@ideas.com>
Rendered body type: text/plain

Bob, DR seems to work fine. I use F6 (QRT) when I stop now so hopefully I won't DR when parked. Nice job on the variable altitude on 73b. Did you get the GPS posit I sent via APRS msg with MRC's location? 73 - Bill
>What happened. I was just watching WB3V go to the local candy store, and
>was going to mark the store on my local map. THEN I noticed that when he
>went inside the store, that he DID NOT DR.....
>
>Where did I break this? I know a lot of you have DR turned off, but I
>like it... Is DR not working in 73a? or is this a new "feature" in 73b.
>
>I can go dig it out of the code and find out what changed, but I need to
>know how many versions back are affected... Send REPLYs to ME, not the
>SIG...
>
>
>

Bill Howard wjh@ideas.com web - <http://baretta.ideas.com/>
Science Applications International Corporation, Ideas Group
7120 Columbia Gateway Dr., Columbia, MD 21046
Voice:(410)312-2060 Fax:(410)312-2250

334. HSP Switch Circut Board

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Mon, 25 Sep 1995 07:39:50 -0500
To: aprssig@tapr.org
Message-ID: <199509251234.HAA20726@flowbee.interaccess.com>
Rendered body type: text/plain

Hi All,

This past weekend the Chicago Area APRS Users Group had a display at Radio Expo in Grayslake, IL. The next booth was the people at FAR Circuits, they make printed boards up for the projects in 73,QST and ARRL handbooks.

One thing lead to another so...by this weekend they will have in production the HSP board as shown in the GPS doc's, sized to fit in a DB-9, ready to plug the components into , cost \$4.50 plus about a buck for postage (they send you several in case you screw one up..grin).

I have some this weekend to test out but if you cant wait for my report or want one ASAP here is the info...

FAR CIRCUITS
Fred Reimers KF9GX
18N640 Field Court
Dundee, Illinois
60118
Voice Mail/Fax 708-836-9148

CUL
73
Ed
N9LCI

"In Flying it is important to keep the number of landings and takeoffs equal"

335. Re: [APRSSIG:3463] APRS in background

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Mon, 25 Sep 1995 09:30:59 +0000
To: aprssig@tapr.org
Message-ID: <9509251325.AA02765@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

Bob Wrote

>Im getting some feedback, but remember, I dont do windows, and I am
>ignorant of HOW you are using the program UNDER windows and what kind of
>FEEL it gives you...

I ran 73b in the background of WFW3.1 at 50% opening it via a PIF. It worked fine as long as you sent it to the background while in the map page mode. It returned in the show via (D page) not a problem. It sent and rcvd packets fine. The only noticable difference was that at 50% priority the audio signals for new pos etc were longer than normal. I did not use DOZ. This basically lets APRS do its thing as you go off and use the machine for other things. It also ran in a <100% window but REAL SLOW.

Bob Baltz	*
Chesapeake Region Sales	*
Ph:(410) 987- 8777	*
Fax: (410) 987-4489	*
E-mail bob.baltz@ustc.vlsi.com	*

336. Re: [APRSSIG:3464] Re: DELORME MAPS!

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Mon, 25 Sep 1995 09:32:59 +0000
To: aprssig@tapr.org
Message-ID: <9509251327.AA02768@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

Look at a 2 CD map program from Precision mapping. Good maps, Easy to print and add objects and it handles LAT and lon. Older version needs Lat/LON to be put in manually new version will take GPS input.

>I wasn't either. I get an icky feeling when a vendor tiers their
>products this way. Street Atlas seems like it is a crippled version of
>Map Expert. I couldn't believe it didn't have lat/lon. That's easy to
>do.

>
>Jack

Bob Baltz *
Chesapeake Region Sales *
Ph:(410) 987- 8777 *
Fax: (410) 987-4489 *
E-mail bob.baltz@ustc.vlsi.com *

337. Shouting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 25 Sep 1995 09:34:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950925092942.27503A-100000@greatlakes>
Rendered body type: text/plain

Here on a fresh monday morning, I began my mail reading by reviewing a copy of my request for assistnace on this windows thing. I was surprised how my use of capital letters DOES appear to be shouting when one reads such a message. SO Please understand that I am not shouting. hi hi....

I just tend to capitalize key words for emphasis. Starting now, I am going to try to remedy that, since I now see how it can be interpreted... My appologies to everyone who may have thought I was a yelling person...

bob bruninga wb4apr.... :-)

338. Re: [APRSSIG:3470] HSP Switch Circut Board

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Mon, 25 Sep 1995 09:04:31 -0500
To: aprssig@tapr.org
Message-ID: <9509251404.AA00628@omnifest.uwm.edu>
Rendered body type: text/plain

Ed,
Tried to send you a message yesterday but it bounced.

Thanks for a great seminar Sat at Greyslake.
More later
73 de Dave

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

73 de Dave

David W. Barrow III, N9UNR
Wisconsin Association of Repeaters - Frequency Coordinator
Snail: 1894 Elm Drive - Town of Cedarburg
West Bend, WI 53095-9603
Phone: (414) 375-2667
Packet: N9UNR @ N9PBY.EF63BI.WI.USA.NOAM
Internet: dbarrow@omnifest.uwm.edu

339. Re: [APRSSIG:3437] APRS I/O Drivers (fwd)

From: JoeB <kavman@gate.net>
Date: Mon, 25 Sep 1995 11:53:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.A32.3.91.950925115145.79732C-100000@navajo.gate.net>
Rendered body type: text/plain

Maybe I'm missing something...but there would still need to be some sort of software to CREATE and DECODE "packet" data...in additon to a COM port driver...since the BAYCOM modem is nust that...a modem...with no ability to handle packet frames.

73... Joe

340. VHF Gateways

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Mon, 25 Sep 95 14:58:41 EDT
To: aprssig@tapr.org (APRS SIG)

Message-ID: <9509251858.AA03150@umed.med.miami.edu>

Rendered body type: text/plain

OK Guys, I think we need to start a discussion on the use of the limited bandwidth on 10.151. Before the flames start, let me say that I have read the APRS docs on this matter, but just plain disagree. I like APRS for its positions, and I want to see my map "cluttered up" with stations, including VHF station gating onto HF. Yes, there is a risk of tying up the frequency, but if you look at the raw traffic coming across the freq, especially at peak times, you see much more message traffic than position traffic. So the question is, do we want to see more positions or more discussions on satellite TV? I know what I want, what does the group want?

I feel it is beneficial to APRS to allow the VHF only stations onto HF for two reasons. First, those of us on HF will see more of the activity in local areas, and have a better feel for where APRS is taking off. Secondly, if we want to entice new users into APRS, and ham radio in general, we need to concentrate on that which makes us unique. With just about everyone (including my mother, arrrg!) surfing the web with 28.8 KB modems, using 1200 baud packet to access the local BBS looks pretty lame. APRS is a truly unique application of packet radio, and one that is ideally suited to attract new users. The thought that they are appearing on maps all across the country is a whole lot more exciting than just on a few computer screens around town, probably mostly people they already know.

There are a few things that could be done to lower the volume of gated traffic, without restricting VHF only stations from gating onto HF. First, Keith and Bob could incorporate a separate gate path into the programs. The programs would send out position and beacon reports with this path at a separate rate, set in the software, say 30 to 60 minutes, and NOT in response to ?APRS? messages. In this way a VHF station could mess around on .79 to his hearts content, and still know that his position was going out onto HF occasionally.

Remove the ?APRS? at the top of every hour in MacAPRS, or at least make an option to disable this. (I've been bugging Keith to do this for a while, but as QRM is getting more severe this becomes more important.)

Set some guidelines for keyboarding. I enjoy sending messages back and forth, but sometimes I see two stations going back and forth with dozens of messages, which I think is excessive. I would suggest that if you are sending more than 5 (or some other number the group feels appropriate) messages, that you tune down in the band with the other station, perhaps even making a second unofficial freq for longer keyboard ops. Another possibility would be to define a keyboarding time when these restrictions would be eased.

Change the way the PC version handles BLN# messages. In my opinion, they are sent out way too often. They should not go out in response to ?APRS? requests, and should be at a slower rate. MacAPRS has a counter that shows how many times each beacon and message is received, and many times I will see these 6 or even 8 line beacons more than a hundred times! Talk about QRM!

I hope this stirs up some constructive discussion among the sig. We have a very limited bandwidth on 10.151, and we need to come up with an equitable solution for all the various kinds of users of APRS. These are my ideas alone, maybe a little half-baked, but I think it is an issue that as a group we need to address.

73 de Steve, K04HD
sdmse@umed.med.miami.edu

341. RE: [APRSSIG:3442] DELORME MAPS!

From: "Sadowski, P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Mon, 25 Sep 95 11:50:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <3066DB01@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

I don't know who posted this - my E-Mail system only resolves msgs to the last sender and in this case it was "aprssig".... I for one would appreciate folks adding their E-mail address to their postings.. for no other reason but that the (*)&(*)% E-mail systems that I have to use isn't any smarter. In any case, I think Keith Sproul (of MACAPRS fame) has already decoded the Delorme format... I could be wrong but I thought I heard (at DCC) he'd broke the code on that one....

I could be wrong though...

ALLAN
AH6LS
sadowskp@usafcrqs.nellis.af.mil

From: aprssig
To: aprssig
Subject: [APRSSIG:3442] DELORME MAPS!
Date: Saturday, September 23, 1995 1:50PM

OK, here is a VERY EXCITING challenge for you:

1) Delorme street expert allows you to add things to your maps and then to SAVE them as an "overlay".

This tells me that there is a FILE somewhere saved to your Hard Disk that contains the POSITION of the object you wanted added to your map!

ALL WE NEED TO DO IS FIGURE OUT THE FORMAT OF THIS FILE!!!

Then It is trivial for me to have APRS write out the location of all of its POSITS into a file on your HD in the DELORME format!

Here is the test. PLACE ONE OBJECT on your delorme map. Save it as an overlay. Use what ever tools you have available to figure out the format of this file...

Then PLACE 2 OBJECTS on your map and again confirm that you have figured out the FORMAT. If so, send it to me, wait a week, and BINGO, we will have an automatic APRS interface to DELORME CD ROM MAPS NATIONWIDE that does NOT need the current 2 computer, 2 serial port mechanism that we currently require...

342. Re: [APRSSIG:3477] RE: DELORME MAPS!

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Mon, 25 Sep 95 16:05:14 EDT
To: aprssig@tapr.org
Message-ID: <9509252005.AA03392@umed.med.miami.edu>
Rendered body type: text/plain

>
>
> I don't know who posted this - my E-Mail system only resolves msgs to the
> last sender and in this casse it was "aprssig".... I for one would
> appreciate folks adding their E-mail address to their postings.. for no
> other reason but that the ()*%)(*% %\$ E-mail systems that I have to use
> isn't any smarter. In any case, I think Keith Sproul (of MACAPRS fame) has
> already decoded the Delorme format... I could be wrong but I thought I heard
> (at DCC) he'd broke the code on that one....
>
> I could be wrong though...

>
Sorry, you are. MacAPRS now allows you to use maps made with DeLorme, but it doesn't use the CD direct. You must copy the picture of the map in street atlas to the clipboard, paste it into a graphic program, save as a PICT file, open in an application I wrote in order to set up the coordinates (the program takes the lat/lon of two points on the map and converts that into the info that MacAPRS needs to open the map. Finally it is ready to be used.

No-one can use the CD ROM directly, nor will they ever be able to. The data is highly compressed, in a proprietary format that Delorme will not release. If you notice when you run the program, there are patent numbers that come up, which cover the compression techniques that are used. If you were able to reverse engineer the code, you'd run smack up against the DeLorme legal department for using their patented algorithm! Pretty slick of them, huh?

As for the addresses, most mailers have a way to show more info about a message (h in elm) as well as a way to mail directly to the originator. Check your docs.

73 de Steve, K04HD
sdimse@umed.med.miami.edu (happy now? HI!)

343. SCREEN SCRUNCH STILL THERE

From: DDOBBINS@aol.com
Date: Mon, 25 Sep 1995 16:20:08 -0400
To: aprssig@tapr.org
Message-ID: <950925162007_28805168@mail06.mail.aol.com>
Rendered body type: text/plain

Aloha de Dave/WH6YC. I'm still experiencing the screen scrunch on my color laptop. It's been problematic for awhile. In an earlier inquiry, one response said he found a control panel that allowed him to resolve the scrunch and return APRS to fill the screen. However, the details were not specific and I was not able to replicate the procedure, or find the files, in my Compaq Contura Aero.

BTW, I used the Aero (color 486/33) while mobile recently in San Diego, and the display is not very bright to effective use it while mobile. The display on my Zeos (B&W) is much brighter and easier to see. Other than that, I had no problems with the laptop while mobile.

344. NO PRICES IN NEW RS CATALOG?

From: DDOBBINS@aol.com
Date: Mon, 25 Sep 1995 16:20:05 -0400
To: aprssig@tapr.org
Message-ID: <950925162004_28805109@emout05.mail.aol.com>
Rendered body type: text/plain

Perhaps it's because I live in Hawaii and prices are higher, but yesterday I picked up the new Radio Shack catalog and am outraged that there are no prices listed for any of the items. Instead, theres a 3-panel blue card with corresponding stock numbers and prices. I can't believe it. Now, anytime RS wants to raise their prices, they just put out a new price list. Are the mainland catalogs the same? Aloha, Dave.

345. TRIMBLE GPS ON PCMCIA CARD

From: DDOBBINS@aol.com
Date: Mon, 25 Sep 1995 16:20:11 -0400
To: aprssig@tapr.org
Message-ID: <950925162010_28805191@emout05.mail.aol.com>
Rendered body type: text/plain

Aloha de Dave/WH6YC. I recently gathered some data on the Trimble GPS that's built into a type II PCMCIA. I was pretty excited about the thought of using it with APRS, but the fact sheet and a call to Trimble confirmed that it does not output NMEA data. The cost of that unit was \$595. Trimble does have a NMEA-out GPS for \$495. That's list price, but still higher than a good Garmin 45 for \$300. Aloha.

346. Re:VHF/HF Gateways

From: Zonker@eworld.com
Date: Mon, 25 Sep 1995 13:45:45 -0700
To: aprssig@tapr.org
Message-ID: <950925134543_15502360@eWorld.com>
Rendered body type: text/plain

It seems strange that there needs to be much discussion on the topic of gatewaying traffic to/through HF. Maybe I don't understand the problem, or maybe I just don't understand APRS well enough? (In order to find out, maybe I should tell you how I think it works, and then folks can help educate me on the finer points...)

1) The HF gateways don't automatically send what they hear on VHF directly to HF. The gateway systems need to see "gateway" in part of the unproto string in order for the packet(s) to be eligible for forwarding VHF -> HF.

2) If "gateway" *is* part of the unproto path, *ALL* traffic from the station would be forwarded (messages, bulletins, as well as GPS and weather info...)

Now, as this is my understanding of how everything works (related to APRS gateways), my basic feeling is that "folks who gateways shouldn't send (many) messages!". Having said that, I'll add (in the same breath) that I can see applications where someone *would* want to use a gateway, and *would* want to use messaging. (Events covering a *very* wide territory, where VHF alone would be impractical, and Messaging could be used *minimally* to relay short traffic, rather than setting up an HF voice net.) It is for that reason that I think sending (a few, short)

messages an hour would be an acceptable use of HF.

Another use could be for events that are of interest to a large number of hams...tracking a hurricane, and an occasional message that states the category, and notes any HF Voice Net Freq designated for the storm.

While I enjoy seeing a few folks pop up around the USA on my APRS system, I usually watch my corner of the world. I do, sometimes, see messages to folks a *long* way away, and I realize that *I* can't send these other stations a message without setting/resetting my unproto strings, so I just don't bother chatting with them.

So, maybe we can find a way to minimize the extra traffic that goes via HF. (The Mac version allows you to set times for the various types of outbound messages...maybe there can be another set of checkboxes for HF-forwardability of those types of messages (i.e. to disallow bulletins, etc.) (This would avoid the need to constantly change the contents of the unproto string...which is impractical to do, for either the operator, or the computer.)

I haven't monitored the HF frequency in question. How heavily loaded is it, on a normal basis? Since there are probably very few frequencies available for HF Packet, we can either;

- really try to restrict our use, and preserve as much of the available bandwidth on the channels we have ("Shh! Quiet! Stop and listen to the silence!")
- use it as practically as possible. Then, if we saturate the channel(s) we have, we can examine how we are using the bandwidth, and try to allocate more if we find that the uses are good, or restrict the bad uses.

After all, we're all experimenters. While we don't have unlimited bandwidth in the HF bands, I think we can open a few more channels, responsibly, as needed. to help a segment of the hobby grow.

What are your thoughts?

-Z- David K. Z. Harris N6UOW Zonker@eWorld.Com

347. Re: [APRSSIG:3482] Re:VHF/HF Gateways

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Mon, 25 Sep 95 17:50:52 EDT
To: aprssig@tapr.org
Message-ID: <9509252150.AA03839@umed.med.miami.edu>
Rendered body type: text/plain

>
> It seems strange that there needs to be much discussion
> on the topic of gatewaying traffic to/through HF. Maybe
> I don't understand the problem, or maybe I just don't
> understand APRS well enough? (In order to find out,
> maybe I should tell you how I think it works, and then
> folks can help educate me on the finer points...)
>

The problem is that the channel is heavily loaded during peak times: all evening, and most of the day on weekends. There have been several bulletins lately trying to discourage VHF stations from using gates to get onto HF. The APRS docs (specifically OPS.TXT and HF.TXT) advise that vhf stations should not beacon thru the gates. I do not agree with this, which is the reason I think it should be discussed.

> 2) If "gateway" *is* part of the unproto path, *ALL* traffic
> from the station would be forwarded (messages, bulletins,
> as well as GPS and weather info...)
>

Right, and that is part of the problem. A separate beacon only path would allow an occasional position report over HF without xmitting everything. It might be nice to include WX reports at this frequency as well for station with automatic WX stations.

> While I enjoy seeing a few folks pop up around the USA
> on my APRS system, I usually watch my corner of the

> world. I do, sometimes, see messages to folks a *long*
> way away, and I realize that *I* can't send these other
> stations a message without setting/resetting my unproto
> strings, so I just don't bother chatting with them.
>

Mac APRS allows multiple maps at one time, so I usually keep a US map, South Florida map, and county wide map open at the same time. Perhaps this colors my experience, and the desire to see lots of stations around the country isn't as universal as I thought. With MacAPRS for Windows on the horizon, I suspect more people will experience this!

> So, maybe we can find a way to minimize the extra traffic
> that goes via HF. (The Mac version allows you to set times
> for the various types of outbound messages...maybe there
> can be another set of checkboxes for HF-forwardability
> of those types of messages (i.e. to disallow bulletins, etc.)
> (This would avoid the need to constantly change the
> contents of the unproto string...which is impractical
> to do, for either the operator, or the computer.)

Future plans for MacAPRS include a KISS driver, which would make this practical. Messages would be acked and responded to over the same path they are received.

>
> After all, we're all experimenters. While we don't have
> unlimited bandwidth in the HF bands, I think we can
> open a few more channels, responsibly, as needed. to
> help a segment of the hobby grow.
>

Opening more HF channels really isn't too practical. There are few, if any, packet channels that are not already in regular use by one group or another, and moving on to them would cause friction. It would also limit some of the fun of HF APRS, where you can work everyone on a single channel. Gating would become more difficult as well.

Steve K04HD

348. Re: [APRSSIG:3476] VHF Gateways

From: wnolle@ro.com (William Nolle)
Date: Mon, 25 Sep 1995 19:07:56
To: aprssig@tapr.org
Message-ID: <199509260014.TAA30668@sh1.ro.com>
Rendered body type: text/plain

Well here it is, i am in aw that there finally is someone that is in agreement with me on HF gates (Well sort of). I still have to ask of what use is it to VHF users to see those HF stations on VHF when we are not suppose to reply or put GATE into our unproto path. Well i'll tell you i have been starting to put Wide,gate,wide into my unproto since no HF users care of what we VHF users care about the situation. By the way HF'ers wake up with that new software available on internet called IPHONE you may be needing to throw away your HF gear. I have worked 15 country's in the last 2 weeks including Russia and Australia and most hams i talk to say their HF equipment is collecting dust since starting to use IPHONE. So read Steve's message carefully Hi Hi.

Bill KE4EER

>OK Guys, I think we need to start a discussion on the use of the limited
>bandwidth on 10.151. Before the flames start, let me say that I have
>read the APRS docs on this matter, but just plain disagree. I like APRS
>for its positions, and I want to see my map "cluttered up" with
>stations, including VHF station gating onto HF. Yes, there is a risk of
>tying up the frequency, but if you look at the raw traffic coming across
>the freq, especially at peak times, you see much more message traffic
>than position traffic. So the question is, do we want to see more
>positions or more discussions on satellite TV? I know what I want, what
>does the group want?

>Change the way the PC version handles BLN# messages. In my opinion, they
>are sent out way too often. They should not go out in response to ?APRS?
>requests, and should be at a slower rate. MacAPRS has a counter that
>shows how many times each beacon and message is received, and many times
>I will see these 6 or even 8 line beacons more than a hundred times!
>Talk about QRM!
>

>73 de Steve, K04HD
>sdimse@umcd.med.miami.edu
>

349. Re: [APRSSIG:3471] Re: APRS in background

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 25 Sep 1995 20:29:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.950925202648.13827B-100000@laraby.tiac.net>
Rendered body type: text/plain

On Mon, 25 Sep 1995, Bob Baltz wrote:

> Bob Wrote
> >Im getting some feedback, but remember, I dont do windows, and I am
> >ignorant of HOW you are using the program UNDER windows and what kind of
> >FEEL it gives you...
> I ran 73b in the background of WFW3.1 at 50% opening it via a PIF. It
> worked fine as long as you sent it to the background while in the map page
> mode. It returned in the show via (D page) not a problem. It sent and
> rcvd packets fine.

Sounds great, but many of us (me included) do not know about this "PIF" thing. How about letting us in? (how do you make one, how do you use one, and maybe the text of yours?)

Richard Amirault NIJDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

350. RE: [APRSSIG:3478] RE: DELORME MAPS!

From: "Sadowski,P CPT USAF CRQS/RQEN" <sadowskp@usafcrqs.nellis.af.mil>
Date: Mon, 25 Sep 95 17:08:00 cdt
To: aprssig <aprssig@tapr.org>
Message-ID: <306725BD@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

From: aprssig
To: aprssig
Subject: [APRSSIG:3478] RE: DELORME MAPS!
Date: Monday, September 25, 1995 3:08PM

>
>
> I don't know who posted this - my E-Mail system only resolves msgs to the
> last sender and in this casse it was "aprssig".... I for one would
> appreciate folks adding their E-mail address to their postings.. for no
> other reason but that the (*)&)(*%&%\$ E-mail systems that I have to use
> isn't any smarter. In any case, I think Keith Sproul (of MACAPRS fame)
has
> already decoded the Delorme format... I could be wrong but I thought I
heard
> (at DCC) he'd broke the code on that one....
>
> I could be wrong though...
>
Sorry, you are. MacAPRS now allows you to use maps made with DeLorme, but it doesn't use the CD direct. You must copy the picture of the map in street atlas to the clipboard, paste it into a graphic program, save as a PICT file, open in an application I wrote in order to set up the coordinates (the program takes the lat/lon od two points on the map and converts that into the info that MacAPRS needs to open the map. Finally it is ready to be used.

No-one can use the CD ROM directly, nor will they ever be able to. The data is highly compressed, in a propriatary format that Delorme will not release. If you notice when you run the program, there are patent numbers that come up, which cover the compression techniques that are used. If you were able to reverse engineer the code, you'd run smack up against the DeLorme legal department for using their patented algorithm! Pretty slick of them, huh?

As for the addresses, most mailers have a way to show more info about a message (h in elm) as well as a way to mail directly to the originator. Check your docs.

73 de Steve, K04HD
sdmse@umed.med.miami.edu (happy now? HI!)

351. (no subject)

From: Peter Gross <Peter.Gross@internetMCI.COM>
Date: Tue, 26 Sep 1995 00:45:36 -0500
To: vhf/hf <aprssig@tapr.org>
Message-ID: <01HVP09I7FKY8WY6FY@MAILSRV1.PCY.MCI.NET>
Rendered body type: text/plain

-- [From: Peter Gross * EMC.Ver #2.3] --

I too like to see where and whom other APRS stations are. Perhaps I'll recognize a long lost friend on my map someday. Even though I would like to see everyone from the vhf "side", it certainly is going to create a problem of the 1200 baud saturating 300 baud on hf. There has to be a limit somewhere and sometime soon. My main objection is seeing the vhf station and even some hf stations using wide,echo, or relay in their hf paths. There were complaints of using gate, wide, wide from hf. I am not sure why that was a problem but none the less all of the hf ops that read the bulletin did cooperate. Many vhf ops have never experienced hf APRS on 10, 151 MHz. They can't see it, therefore have no idea how they may be saturating the hf network. A new user usually hasn't had a chance to read enough of the docs to truly have much of an understanding of APRS. Most of the time we can identify him with "newuser" in the L-list. He needs to be educated immediately by an experienced op if he is doing something adverse to good operating. But to see the experienced ops intentionally disregard what the creator of APRS is inexcusable. Their excuse is probably that they too haven't read the docs. I have to admit the docs are long and difficult to absorb in one sitting but certainly if someone has any kind of interest he will eventually read most of them!

An idea once thought of would be to do similar to the meteor scatter protocol. That is where APRS stations in a specified quadrant of the country transmits during a specified quadrant of the clock. Therefore, perhaps on a certain day of the month APRS vhf stations in the northeast use a gateway onto hf. Perhaps on every Saturday another area of the country would gateway. Your thoughts.....

I agree with K04HD that the concept of vhf users getting onto hf and even back down to vhf is something that potentially will sell hams to try and stay on APRS.

One last thought...We all must be always aware of any type of emergency or anything worthy of priority to reduce frequency bandwidth immediately. This means that unattended stations should maintain a minimal path on or onto hf until they are present at their video screens.

'nuff said!

73 - Peter w7lus
peter.gross@internetmci.com

352. Re: [APRSSIG:3466] DELORME MAPS! And ETAK

From: n2czf@gate.net
Date: Mon, 25 Sep 1995 18:14:18 -0400
To: aprssig@tapr.org
Message-ID: <199509252214.SAA106796@tequesta.gate.net>
Rendered body type: text/plain

Yes ETAK is one of the leading systems in the Public Safety Industry, maybe one of the only ones really in use right now. There are others out there but I do not think they have the "pull" that ETAK has.

I do know that the Trimble system of AVL for the Public Safety Industry does use it and advertises it quite a bit in a trade journal called "Radio Resource".

Rich n2czf@gate.net

353. VHF<->HF Gateways

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 26 Sep 1995 07:24:26 +0100 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950926070623.1710B-100000@pinegov>
Rendered body type: text/plain

With regard to the newest discussion on the HF GATEway system:

I think it is the responsibility of the GATEway operators, individually, and as a group to maintain the HF traffic throughput to the APRS HF Net.

Each GATE operator exists in a unique subnet of the entire APRS system. Where I live, there are about 7 regular VHF users, most of which have

never used my GATE to go onto HF but whom have told me they appreciate seeing the other HF stations and GATES appear on their map.

I think a realistic standard should be discussed, established, and then adhered to with regard to gateway operation.

Denying access to anyone not engaged in GPS mobile operation is, in my opinion, overly restrictive, yet, having a free for all is undoubtedly too much.

I would suggest that VHF users who are actively at their station consoles be permitted to beacon via a GATE if they wish, with a limitation of using no more than one digipath, for the purpose of encouraging keyboard conversation.

Unattended VHF to HF beaconing should be prohibited as it serves no real purpose. Unattended VHF stations would still receive bulletins and users who know they exist could still send them mail at a PBBS via standard packet connection without beaconing their posit..

This would limit unnecessary beaconing and map clutter while encouraging maximum APRS usage.

However, in large metro areas with large APRS user populations, I would suggest the GATE operator use the BUDLIST command to restrict incoming HF beacons to specific stations and digipaths in accordance to local wishes.

And finally, if a local emergency arises, turn the darn gate OFF. If you run an unattended gate, turn the remote access commands on and share the password with someone you trust in the emergency organization so they can turn it off in your absence. (simple command...0 C T cmd: MYGATE NONE)

Just a few thoughts, how about some input?

de Kevin Heyboer KD4UYR
kheyboer@co.pinellas.fl.us
the "Official" Tampa Bay area VHF<->HF GATEway

354. Re: [APRSSIG:3479] SCREEN SCRUNCH STILL THERE

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Tue, 26 Sep 1995 09:25:40 -0400
To: aprssig@tapr.org
Message-ID: <199509261325.JAA15924@dylan.mindspring.com>
Rendered body type: text/plain

Dave-

I posted that message. My Compaq 388 LTE 25MHz mono laptop was in the shop getting a new hard drive installed and I was using a Thinkpad 750 by IBM. It had the dreaded scrunch. I found in the Thinkpad's setup screen, a choice to "Expand Video Display". Once I did that, the display was full screen.

As a note- I now notice scrunch on the compaq. Being mono, I guess I thought it was supposed to be that way. I couldn't tell the diff between the edge of the APRS screen and the blank area caused by the scrunch.

Ralph

At 03:30 PM 9/25/95 -0500, you wrote:
>Aloha de Dave/WH6YC. I'm still experiencing the screen scrunch on my color
>laptop. It's been problematic for awhile. In an earlier inquiry, one response
>said he found a control panel that allowed him to resolve the scrunch and
>return APRS to fill the screen. However, the details were not specific and I
>was not able to replicate the procedure, or find the files, in my Compaq
>Contura Aero.
>>

355. Re: [APRSSIG:3485] Re: APRS in background

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Tue, 26 Sep 1995 09:57:09 -0400
To: aprssig@tapr.org
Message-ID: <199509261357.JAA24464@dylan.mindspring.com>
Rendered body type: text/plain

**** HELP NEEDED*****

Here I sit in Annapolis, proofreading typos in APRTrak with Mr Bob. (Cool program, by the way)!
I loaded up APRS under windows in a lab machine, and he and I have been playing with it. I am running it under a "pif", albeit the one with default info. Bob Baltz- what are your parameters?

These machines are running Win 3.1 (not workgroups)

Video card is a Weitek 640x480 with 32,767 colors (seems crazy, but that's what the driver says). I am not sure if I can locate the windows disks here to try different drivers.

Those of you playing with APRS in the background- please give me the setups you are using. Bob and I will play with APRS in the background. Lets not miss this opportunity!!!

For the record, with the setup mentioned above, APRS runs fine in the foreground, but in the background, it gathers no positions.

At 07:43 PM 9/25/95 -0500, you wrote:
>On Mon, 25 Sep 1995, Bob Baltz wrote:
>
>> Bob Wrote
>> >Im getting some feedback, but remember, I dont do windows, and I am
>> >ignorant of HOW you are using the program UNDER windows and what kind of
>> >FEEL it gives you...
>> I ran 73b in the background of WFW3.1 at 50% opening it via a PIF. It
>> worked fine as long as you sent it to the background while in the map page
>> mode. It returned in the show via (D page) not a problem. It sent and
>> rcvd packets fine.
>
>Sounds great, but many of us (me included) do not know about this "PIF"
>thing. How about letting us in? (how do you make one, how do you use one,
>and maybe the text of yours?)
>
>
>Richard Amirault N1JDU Boston, Massachusetts USA
>amirault@tiac.net "Go Fly A Kite"
>
>
>

356. DR along a path?

From: jan@archimedes.vislabs.navy.mil (Jan A. Barglowski)
Date: Tue, 26 Sep 1995 07:58:54 -0700
To: aprssig@tapr.org
Message-ID: <v01520d04ac8d609b5f0a@[129.131.31.10]>
Rendered body type: text/plain

I'd like to be able to dead reckon along a user-defined path. This would be very useful for two events I'd like to cover with APRS, namely a car rally and a mt. bike race. Both of these events are run along a pre-defined course, which is nowhere near straight!

In the case of the rally, about 5 cars are on the course at anyone one time (staggered start), and they're going approximately the same speed. I get voice updates of when the cars pass various checkpoints from other Hams along the course. I found it too hard to "move" the cars manually from the updates, and dead reckoning has the cars go "off the course".

I'd like to be able to create a path with the cursor, then attach an object to it. Maybe instead of the "COURSE (000)?" prompt during object creation, you could reference some path name? Then the object would follow that path and stop at the end (and sound an alarm?)...

A feature like this might also be useful for other things, too. And maybe a "make path from GPS track" feature to aid in creating paths? Tuesday morning and already my mind is running amuck! :-)

If there already is a way to do this, or get around this, please let me know...

73, jan
kc6uth

Jan Anthony Bargłowski	Phone: (619) 927-1057
Computer Graphics Dude	Internet: jan@vislab.navy.mil
VisLab, China Lake	Packet: KC6UTH@WA6YBN.#SOCA.CA.US.NA

357. Re: [APRSSIG:3491] Re: APRS in background

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Tue, 26 Sep 1995 08:03:56 -0700
To: aprssig@tapr.org
Message-ID: <199509261503.IAA17570@ix.ix.netcom.com>
Rendered body type: text/plain

>Those of you playing with APRS in the background- please give me the setups
>you are using. Bob and I will play with APRS in the background. Lets not
>miss this opportunity!!!
>

>For the record, with the setup mentioned above, APRS runs fine in the
>foreground, but in the background, it gathers no positions.

The default PIF should work fine, provided you have background execution enabled, and you are running APRS in a full screen and not a window.

APRS should also work in a window, but it might be slower and there may be problems with the graphics. You can play with the font setting to get different window sizes.

Jack

358. Re: VHF Gateways

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 26 Sep 1995 11:41:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950926111628.19093C-100000@greatlakes>
Rendered body type: text/plain

First one general comment: Every PC within range of our local HF GATEway fills all 5 APRS pages in only about 2 hours on weekends and in about 6 hours on weekdays. This means, we are already seeing the full capacity of APRS. As soon as APRS sees *one* more station than 80, it begins bumping stations off the top of the list and adding new stations at the bottom. The problem is, that that *one* station tha got bumped off, then re-appears 20 minutes later as a *NEW* station. Ergo, he gets added to the LOG file and the TRACK history file. This results in TRACK HISTORIES and LOG files being written about every hour or so. Soon the HD disk fills up..

Yes, this problem does *not* occur on the MAC's, but is a significant problem on the PC. One soultion is just more pages of memory so that active stations stay on the lists, and dont keep getting re-added as *new* stations every time they transmit... But already, 80 stations are more than I can personally keep up with.. What is the upper bound of the human condition? hi hi

So listening to HF10151, I dont hear *any* dead time where more stations could be accomodated... Remember, that a CSMA channel like PACKET must have about 60% DEAD AIR time inorder to support OPTIMUM throughput. As the usage goes above 36%, collisions and errors increase dramatically and overall throughput goes *down*.

The thing to do is to bring up additional nets on the 40 and 20 meter bands...

On Mon, 25 Sep 1995, Steven S. Dimse wrote:

> OK Guys, I think we need to start a discussion on the use of the limited
> bandwidth on 10.151. Before the flames start, let me say that I have
>
> I feel it is beneficial to APRS to allow the VHF only stations onto HF
> for two reasons. First, those of us on HF will see more of the activity

> in local areas, and have a better feel for where APRS is taking off.
>
> First, Keith and Bob could incorporate a separate gate path into the
> programs. The programs would send out position and beacon reports with
> this path at a separate rate, set in the software, say 30 to 60 minutes,
> and NOT in response to ?APRS? messages. In this way a VHF station could
> mess around on .79 to his hearts content, and still know that his
> position was going out onto HF occasionally.
>
> Change the way the PC version handles BLN# messages. In my opinion, they
> are sent out way too often. They should not go out in response to ?APRS?
> requests, and should be at a slower rate. MacAPRS has a counter that

359. Garmin address?

From: Tom Tessier <tessier@cc.UManitoba.CA>
Date: Tue, 26 Sep 1995 09:30:26 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509261430.JAA22379@hadar.cc.umanitoba.ca>
Rendered body type: text/plain

Anybody got the address/phone number for Garmin? For those out there who own Garmin '45's, maybe you have it in the manual....hi

We are using APRS with weather balloons and need a GPS board to make a custom tracker for a laptop..

Thx, TT
VE4TRT
U of M ARS
<http://www.ee.umanitoba.ca/~tessier/umarsindex.html>

360. Re: [APRSSIG:3493] Re: APRS in background

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Tue, 26 Sep 1995 11:44:25 +0000
To: aprssig@tapr.org
Message-ID: <9509261538.AA03857@oriola.ustc.vlsi.COM>
Rendered body type: text/plain

This is the what I have been using also and works well. I found you must send to background from map screen. Does not work sending from other screens.

Also you come back to D screen (not a problem).

>>Those of you playing with APRS in the background- please give me the setups
>>you are using. Bob and I will play with APRS in the background. Lets not
>>miss this opportunity!!!
>>
>>For the record, with the setup mentioned above, APRS runs fine in the
>>foreground, but in the background, it gathers no positions.
>
>The default PIF should work fine, provided you have background execution
>enabled, and you are running APRS in a full screen and not a window.
>
>APRS should also work in a window, but it might be slower and there may be
>problems with the graphics. You can play with the font setting to get
>different window sizes.
>
>Jack

Bob Baltz	*
Chesapeake Region Sales	*
Ph:(410) 987- 8777	*
Fax: (410) 987-4489	*
E-mail bob.baltz@ustc.vlsi.com	*

361. Re: [APRSSIG:3480] NO PRICES IN NEW RS CATALOG?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 26 Sep 1995 11:59:52 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950926115359.19093F-100000@greatlakes>
Rendered body type: text/plain

On Mon, 25 Sep 1995 DDOBBINS@aol.com wrote:

> picked up the new Radio Shack catalog and am outraged that there are no
> prices listed for any of the items. Instead, theres a 3-panel blue card with
> corresponding stock numbers and prices. I can't believe it!

APR REPLY: My technique as a consumer, in RADIO SHACK and anywhere else that I find items WITHOUT PRICES, is to take HANDFULS and CARTS FULL of the items to the check out counter. Then ask the clerk to scan them.

Then as each price comes up, say "Nah, too much..." on everything except the one thing you came to the store for.

THEY THEN ARE LEFT WITH A PILE OF STUFF THAT THEY HAVE TO RESTOCK. At least by handling it, they may put it back with a LABEL!

I FEEL IT IS MY DUTY AS A CONSUMER to do this EVERYTIME I visit the store... I can be a real pain-in-the-@#\$\$ as a consumer...

362. Re: [APRSSIG:3494] Re: VHF Gateways

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Tue, 26 Sep 1995 09:10:55 -0700
To: aprssig@tapr.org
Message-ID: <199509261610.JAA16208@ix8.ix.netcom.com>
Rendered body type: text/plain

>The thing to do is to bring up additional nets on the 40 and 20 meter
>bands...

Let's not rule out 10m either...soon it will begin to open up nicely during daylight hours, and 1200 baud AFSK works great with most SSB radios. Do we have a designated 10m APRS frequency yet?

Jack

363. 2m SSB APRS (NO!)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 26 Sep 1995 12:27:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950926121624.19093I-100000@greatlakes>
Rendered body type: text/plain

I have seen some messages about some stations proposing to use APRS on SSB *in* the *weak_signal* portion of the two meter band. Let me make it perfectly clear, that I do *not* endorse such operation. Here is a copy of the message. The originators name and call have been removed to protect the poor guy...

If you want to make 10 fold improvements in VHF packet coverage and you have a SSB radio, use 9600 baud BPSK !!! And choose a DIGITAL channel! Putting 300 baud packet on 2m SSB is senseless...

DATE: 12 SEP 95 05:35
MESSAGE-ID: deleted

FROM: xxxxxxxx

TO: APRS@USA
SUBJECT: **NEW** APRS VHF SSB FREQ.

FELLOW APRS RUNNING HAMS,

THERE IS A NEW 2 METER SSB FREQ. FOR APRS USAGE. THE FREQ. IS 144.180MHZ. UPPER-SIDE-BAND. THIS IS A SET FREQ. ALL TRANSMISSIONS WILL BE 300 BAUD JUST LIKE HF. ALL SETTING IN APRS WILL BE FOR HF EXCEPT FOR THE UNPROTO VIA GATE. UNPROTO WILL NEED TO BE SET TO VIA WIDE NOT WIDE.WIDE.PLEASE SET YOUR ALAIS TO WIDE TO GAIN MAXIUM RANGE. AND MAKE SURE YOUR USEING A VERTICAL ANT.

THE REASON FOR AN APRS 2 METER SSB FREQ. IS AS FOLLOWS.
1> TO GAIN FURTHER RANGE.
2> TO PROMOTE MORE USE OF THE 2-METER SSB FREQ'S.
3> TO AID IN CASE OF AN EMERGENCY.
4> TO ALLOW A FURTHER GATE FROM 145.790MHZ.
5> TO PROMOTE GOOD-WILL AMONG HAM'S STATE AND WORLD WIDE.
6> TO ALLOW NO-CODE HAMS, WITH THE HELP OF CODED HAMS, TO LEARN HF PACKET TECHNIQS.

ALL HAM'S WITH SSB RADIOS ARE URGED TO OPERATOR ON THIS FREQ. ENJOY AND PLEASE KEEP ON APRSING.

I repeat. WB4APR disagrees with this message 100%

364. GPS ON PCMCIA CARD

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 26 Sep 1995 11:41:38 -0500
To: DD0BBINS@aol.com
Cc: aprssig@tapr.org
Message-ID: <v02130500ac8ce96f625b@[199.1.11.101]>
Rendered body type: text/plain

>Aloha de Dave/WH6YC. I recently gathered some data on the Trimble GPS that's
>built into a type II PCMCIA. I was pretty excited about the thought of using
>it with APRS, but the fact sheet and a call to Trimble confirmed that it does
>not output NMEA data. The cost of that unit was \$595. Trimble does have a
>NMEA-out GPS for \$495. That's list price, but still higher than a good Garmin
>45 for \$300. Aloha.

MacAPRS can use a GPS PCMCIA, Keith can decode the binary data.

I just added a Serial PCMCIA card to my portable and plugged in a Garmin-45.
I saved \$190 not getting a GPS card and can use the Garmin-45 standalone.

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

365. Re: [APRSSIG:3489] VHF<->HF Gateways

From: wnolle@ro.com (William Nolle)
Date: Tue, 26 Sep 1995 11:54:09
To: aprssig@tapr.org
Message-ID: <199509261700.MAA29218@sh1.ro.com>
Rendered body type: text/plain

This is exactly what i'm talking about, tell me what about HF gates serves a
real purpose then outside of GPS beacons?. Really now what gives the HF
gate user or station the right to fill my screen with Bulletins of no value other
then that person wants to make sure his message gets send over and over!.
I still say if i see gates or HF users appear on my map Budlist or no Budlist i
will also attempt to reciprocate by using that gate to HF, what's good for HF
users is good for VHF users.

Now don't me wrong IF the HF user was using the Gate for what it was
intended for that would be another story. If you read the docs it states
that it was strictly setup for GPS Mobiles and Boats to beacon their
position back home so the family or xyl could see their position. All HF
users have lost sight of that fact. I have seen HF users continually use
the Bulletin function to send messages back and forth, and all this was
during one of our heavy weather situations when a tornado took a 3 mile
wide path 30 miles long just 4 miles south of me and i was attempting to
let everyone locally know about it's path. So don't tell me that HF users
have the right to beacon onto HF but VHF'ers do not have the right to go
the other way!!!. I have attempted to explain this in the past but nobody
cares about this. As i stated before i have worked hard over the last 2-3
years in coordinating 145.790 in theis area and i have what looks like the
only coordinated digi in the surrounding 3 states. So please don't tell me
what i can or cannot beacon trough my digi. This may sound harsh but i have
not had any cooperation to speak of nor aggreements that the beaconing
would stop during a heavy weather situation. Therefore i will use my digi in
any way i see fit, and for whatever i feel helps the local community.

>Unattended VHF to HF beaconing should be prohibited as it serves no real
>purpose. Unattended VHF stations would still receive bulletins and users
>who know they exist could still send them mail at a PBBS via standard
>packet connection without beaconing their posit..
>

>However, in large metro areas with large APRS user populations, I would
>suggest the GATE operator use the BUDLIST command to restrict incoming HF
>beacons to specific stations and digipaths in accordance to local wishes.
>

>And finally, if a local emergency arises, turn the darn gate OFF. If you
>run an unattended gate, turn the remote access commands on and share the
>password with someone you trust in the emergency organization so they can
>turn it off in your absence. (simple command....O C T cmd: MYGATE NONE)
>

>
>Just a few thoughts, how about some input?
>

>de Kevin Heyboer KD4UYR
>kheyboer@co.pinellas.fl.us
>the "Official" Tampa Bay area VHF<->HF GATEway

>
>

366. Re: [APRSSIG:3491] Re: APRS in background

From: BAIRDBAIRD@aol.com
Date: Tue, 26 Sep 1995 13:14:17 -0400
To: aprssig@tapr.org
Message-ID: <950926131414_29682283@emout04.mail.aol.com>
Rendered body type: text/plain

Am running APRS 73B in windows in a 50% window. Works fine. Equipment is old 386 /8meg ram/ 640x480x16 colors vga/ refurb IBM color monitor. Runs slow if trying to use another graphics app. Also run APRS on 486/66dx-16meg ram/ 1024x780vga runs acceptable speed. Have been doing that for past year or so.

367. Re: [APRSSIG:3495] Garmin address?

From: jneely@eden.com (Jim Neely)
Date: Tue, 26 Sep 95 12:10:54 EDT
To: aprssig@tapr.org
Message-ID: <199509261729.MAA07105@matrix.eden.com>
Rendered body type: text/plain

I don't have the phone number, but they are in Lenexa KS. I think I got the phone number from (800) information or from a flyer in the box.

jn

On Tue, 26 Sep 1995 10:55:50 -0500 you wrote:

>Anybody got the address/phone number for Garmin? For those out there who
>own Garmin '45's, maybe you have it in the manual....hi
>
>We are using APRS with weather balloons and need a GPS board to make a
>custom tracker for a laptop..
>
>Thx, TT
>VE4TRT
>U of M ARS
><http://www.ee.umanitoba.ca/~tessier/umarsindex.html>
>
Jim Neely
jneely@eden.com WA5LHS@tapr.org

368. 2m APRS SSB at 300 baud

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 26 Sep 1995 13:33:11 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950926131946.19093L-100000@greatlakes>
Rendered body type: text/plain

Regarding my previous message saying how BAD it would be to operate 300 baud HF style APRS packet on 2 meters in the *weak_signal* portion of the band,

I should have also said: "But I do endorse any ham doing any kind of experiment that he wants, as long as he takes into consideration other users of the band."

In this case, if those stations want to do some of these experiments, then choose an appropriate frequency. I would suggest using your existing 2m FM APRS channel! The length of the packets should be no worse than the typical APRS FM packets, since on SSB, there should be no DIGIPEATER field making the packets 30 or so bytes shorter and since they are NOT digipeated, they take less than HALF the air-time. The channel loading by those SSB stations will be similar as for FM at 1200 baud.

Now there will be the usual "thought police" who will jump all over you for using SSB on "their" APRS FM channel, but I think they should be more openminded and permit anything within reason for the sake of amateurs being experimenters...

369. Re: Garmin Address

From: lbailey@infocom.net (Lance Bailey)
Date: Tue, 26 Sep 1995 13:27:51 -0500
To: aprssig@tapr.org
Message-ID: <199509261830.NAA30123@infocom.net>
Rendered body type: text/plain

Address and phone numbers to Garmin as follows:

Garmin International
9875 Widmer Road
Lenexa, KS 66215

Phone Number: 913-599-1515
Fax Number: 913-599-2103

Additional Phone: 800-427-6460

370. Re: [APRSSIG:3494] Re: VHF Gateways

From: sdimse@umcd.miami.edu (Steven S. Dimse)
Date: Tue, 26 Sep 95 14:36:00 EDT
To: aprssig@tapr.org
Message-ID: <9509261836.AA07749@umcd.miami.edu>
Rendered body type: text/plain

WB4APR writer:

>
> First one general comment: Every PC within range of our local HF GATEway
> fills all 5 APRS pages in only about 2 hours on
> weekends and in about 6 hours on weekdays. This means, we are already
> seeing the full capacity of APRS. As soon as APRS sees *one* more
> station than 80, it begins bumping stations off the top of the list and
> adding new stations at the bottom. The problem is, that that *one*
> station tha got bumped off, then re-appears 20 minutes later as a *NEW*
> station. Ergo, he gets added to the LOG file and the TRACK history
> file. This results in TRACK HISTORIES and LOG files being written
> about every hour or so. Soon the HD disk fills up..
>
> Yes, this problem does *not* occur on the MAC's, but is a significant
> problem on the PC. One soultion is just more pages of memory so that
> active stations stay on the lists, and dont keep getting re-added as
> *new* stations every time they transmit... But already, 80 stations are
> more than I can personally keep up with.. What is the upper bound
> of the human condition? hi hi

Tough question...sometimes I think there is no limit, other times I
think we are way over the line already, HI.

>
> So listening to HF10151, I dont hear *any* dead time where more stations
> could be accomodated... Remember, that a CSMA channel like PACKET must
> have about 60% DEAD AIR time inorder to support OPTIMUM throughput. As
> the usage goes above 36%, collisions and errors increase dramatically and
> overall throughput goes *down*.

Yes! This is the whole point. We have to reduce this traffic. The
question is how? Do we turn off all GATES? The question I have for you
is how much of that 40% should be ragchews, and multiple copies of BLN#
bulletins? I don't want to make this personal, but there was a station
announcing a special APRS event, that ran a BLN# series of 5 or 6 lines
for a week or so, and I recieved more than a thousand copies of most of
the lines! This is NOT a comment made against the station, which will
remain nameless, but a question of how the protocols are implemented.

Bob, I would like to hear your specific comments on these points:

1. The idea I threw out for a separate GATE path, so that VHF stations
could put their position through a gate once or twice an hour, without
putting all the other stuff APRS generates onto HF.
2. Modifying the BLN# protocol, so that these beacons are sent at a slow
rate, say once or twice an hour, and not in response the ?APRS? message.
3. Setting a voluntary limit on the number of messages a station ought
to send to another station per hour before they ought to move off freq
for a ragchew. Perhaps the program could even tickle the user if this
rate is exceeded.

>
> The thing to do is to bring up additional nets on the 40 and 20 meter
> bands...

>
I don't think this is an answer. Someone would want to put up an HF to
HF GATE (no reason it couldn't be done) and things would really go nuts!
I feel a better plan, at least for the short term, would be to make
better use of the 36% of the channel we are using now.

371. Re: [APRSSIG:3501] Re: VHF<->HF Gateways

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Tue, 26 Sep 95 14:48:52 EDT
To: aprssig@tapr.org
Message-ID: <9509261848.AA07820@umed.med.miami.edu>
Rendered body type: text/plain

>
> This is exactly what i'm talking about, tell me what about HF gates serves a
> real purpose then outside of GPS beacons?. Really now what gives the HF
> gate user or station the right to fill my screen with Bulletins of no value other
> then that person wants to make sure his message gets send over and over!.
> I still say if i see gates or HF users appear on my map Budlist or no Budlist i
> will also attempt to reciprocate by using that gate to HF, what's good for HF
> users is good for VHF users.
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> Now don't me wrong IF the HF user was using the Gate for what it was
> intended for that would be another story. If you read the docs it states
> that it was strictly setup for GPS Mobiles and Boats to beacon their
> position back home so the family or xyl could see their position. All HF
> users have lost sight of that fact. I have seen HF users continually use
> the Bulletin function to send messages back and forth, and all this was
> during one of our heavy weather situations when a tornado took a 3 mile
> wide path 30 miles long just 4 miles south of me and i was attempting to
> let everyone locally know about it's path. So don't tell me that HF users
> have the right to beacon onto HF but VHF'ers do not have the right to go
> the other way!!! I have attempted to explain this in the past but nobody
> cares about this. As i stated before i have worked hard over the last 2-3
> years in coordinating 145.790 in theis area and i have what looks like the
> only coordinated digi in the surrounding 3 states. So please don't tell me
> what i can or cannot beacon trough my digi. This may sound harsh but i have
> not had any cooperation to speak of nor agreements that the beaconing
> would stop during a heavy weather situation. Therefore i will use my digi in
> any way i see fit, and for whatever i feel helps the local community.
> -----
It is unrealistic to expect a user in some distant state to know when
you are experiencing a heavy weather situation and change his path
accordingly. What needs to happen is the GATE operator in your area
needs to turn off his HF radio during such a situation, eliminating the
traffic from your area. Eliminating HF gates is not a good idea IMHO.
The ability to see a lot of stations from distant areas attracts a lot
of new users to APRS, and will help YOU recruit more people for your
weather spotting activities.
>
> >Unattended VHF to HF beaconing should be prohibited as it serves no real
> >purpose. Unattended VHF stations would still receive bulletins and users
> >who know they exist could still send them mail at a PBBS via standard
> >packet connection without beaconing their posit..
> >
What is the harm of a station putting his position over HF once or twice
an hour? I agree that stations shouldn't put gate in their usual paths
during unattended ops, but what if there were a separate path that gated
to HF once or twice an hour?

372. Gates

From: dwetzel@acs.uswest.com
Date: Tue, 26 Sep 1995 12:05:06 -0500
To: aprssig@tapr.org
Message-ID: <0682b260@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

I've probably missed this in the readmes, but is a dual port tnc required for a
dual band gateway, or can one do it with two tncs?

KC7CO
Doug Wetzell
dwetzel@acs.uswest.com

373. Re: [APRSSIG:3508] Gates

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Tue, 26 Sep 95 16:43:48 EDT
To: aprssig@tapr.org
Message-ID: <9509262043.AA08283@umed.med.miami.edu>
Rendered body type: text/plain

>
> I've probably missed this in the readmes, but is a dual port tnc required for a
> dual band gateway, or can one do it with two tnCs?
>
>
The gate function is embedded within the TNC. I have toyed with the idea
of writing code to tie two TNC's together to give more control over the
actions of a gateway, but it is way down on my priority list.

Steve, K04HD

374. Re: [APRSSIG:3509] Re: Gates

From: dwetzel@acs.uswest.com
Date: Tue, 26 Sep 1995 15:09:07 -0500
To: aprssig@tapr.org
Message-ID: <068561e0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

>
> I've probably missed this in the readmes, but is a dual port tnc required for
a

> dual band gateway, or can one do it with two tnCs?
>
>
The gate function is embedded within the TNC. I have toyed with the idea
of writing code to tie two TNC's together to give more control over the
actions of a gateway, but it is way down on my priority list.

Steve, K04HD

Thanks Steve -

Here's my incentive for asking the question:

KAM - \$300
2 x MFJ1270 - \$230

Seems like an easy choice if you don't need to have tty, amtor, cw, etc,etc,etc.

Provided, of course, that the code is there!!!

:-)

Doug

375. EPROMS

From: daleh@skypoint.com (Dale A. Hagert)
Date: Tue, 26 Sep 1995 16:15:38 -0500
To: aprssig@tapr.org
Message-ID: <m0sxhKu-0005KqC@skypoint.com>
Rendered body type: text/plain

I have a TAPR TNC2, and was wondering if there is an updated firmware with
the GPS mode available. I checked the TAPR files and did not see any
reference to new firmware. If anyone knows of any please let me know. I
have an EPROM burner so just the data would be great. Thanks

Dale A. Hagert NM0H
3881 Serpentine Circle
Eagan, MN 55122
612-688-7155

376. Re: [APRSSIG:3506] Re: VHF Gateways

From: SLSC65A@prodigy.com (MR RODNEY G FOWLER)
Date: Tue, 26 Sep 1995 17:05:15 EDT
To: aprssig@tapr.org
Message-ID: <013.01922844.SLSC65A@prodigy.com>
Rendered body type: text/plain

BLN# transmissions being slowed down to allow more time for position
reporting...etc. Forget it.. If you are trying to get the word out about a
tornado passing through the area, you want your bulletin to be transmitted
as many times as needed to alert everyone on the system involved to receive
it.

I do have a suggestion, limit the transmission of bulletins to just 2
hours. This would eliminate those expired bulletins from continually being
transmitted as I have noted here.

377. Re: [APRSSIG:3511] EPROMSt

From: Greg Jones <gjones@tenet.edu>
Date: Tue, 26 Sep 1995 17:38:07 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509262238.RAA04240@Leslie-Francis.tenet.edu>
Rendered body type: text/plain

1.1.9 is available via the office for \$15. It supports the necessary GPS stuff.

Cheers - Greg

According to Dale A. Hagert:

>
> I have a TAPR TNC2, and was wondering if there is an updated firmware with
> the GPS mode available. I checked the TAPR files and did not see any
> reference to new firmware. If anyone knows of any please let me know. I
> have an EPROM burner so just the data would be great. Thanks
> Dale A. Hagert NM0H
> 3881 Serpentine Circle
> Eagan, MN 55122
> 612-688-7155
>
>

378. Re: [APRSSIG:3506] Re: VHF Gateways

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Tue, 26 Sep 1995 17:21:31 -0700
To: aprssig@tapr.org
Message-ID: <199509270021.RAA10686@ix3.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>Yes! This is the whole point. We have to reduce this traffic. The
>question is how? Do we turn off all GATES? The question I have for you
>is how much of that 40% should be ragchews, and multiple copies of BLN#
>bulletins? I don't want to make this personal, but there was a station
>announcing a special APRS event, that ran a BLN# series of 5 or 6 lines
>for a week or so, and I recieved more than a thousand copies of most of
>the lines! This is NOT a comment made against the station, which will
>remain nameless, but a question of how the protocols are implemented.

Personally, the some of the HF BLNs that end up on VHF drive me nuts. Some days it seems like I can't hit a key on the APRS machine without another BOO DOO DEEP new bulletin alert every 10 minutes, then I go to see what's up, and there's a new BLN bulletin about the football schedule on TV, politics, or some other garbage that I don't need to see.

Perhaps we need some general guidelines about what's appropriate for the BLN feature. For starters-

- APRS network equipment failures or related notices
- Upcoming APRS events, public service events or t-hunts
- Emergency notices, storm warnings, other priority traffic

Anything that will not be of interest to a large number of users, over a wide area, is probably not appropriate. Just my \$0.02...

379. Re: [APRSSIG:3514] Re: VHF Gateways and "Football"

From: n2czf@gate.net
Date: Tue, 26 Sep 1995 21:23:33 -0400
To: aprssig@tapr.org
Message-ID: <199509270123.VAA113820@tequesta.gate.net>
Rendered body type: text/plain

Oh so true!! I kept my mouth shut when I saw all sorts of BLN's that had nothing that even REMOTELY related to APRS, or even Ham Radio! I am glad that someone else felt the same way as I did, when I saw the comment about Football I just had to put MY two cents in since that really rubbed me the wrong way at that time when I saw it.

While on the subject.... people we are going to see a lot more of these problems face it we have reached a size where many have different oppinions and many

will not conform or even listen. We just got to do what we think we must and try to keep peace among EVERYONE! We will lose a few, I know we will, we already have over the years but we will also gain a few and someday maybe welcome back others that have left.

I have mixed feelings about gateways, I run one myself and feel that if it were not for all the activity on HF coming thru to VHF we would have ZIP, nothing, nada on VHF here in the West Palm Beach area. We are just not strong enough to support enough interest with just VHF users, if that day comes I will probably give my \$2500 investment in a HF rig and TNC a rest often. Till that day comes I will support the GATE 100%, I do not like everything I see but it is for the best at this time. Can we use some changes, yes we can I see a LOT of good ideas out there on the sig and I hope to see a few of them in use in the future.

Recently with the addition of another WIDE digi (1 week old) it seems that we have coverage now from Melbourne to Dade County/Key West 99% of the time, maybe we will not need the HF gate all the time VERY soon. I myself find many problems with the VHF net also somewhat like we have on HF but on VHF with the WIDE's . Some of the users to the south feel that the more WIDEs up the better even if they are 5 miles from each other and cover the same 8 mile radius! This is a bit overstated with the range but the problem is still there, WIDE's 10 miles from each other and with a beacon path of WIDE,WIDE,WIDE. U think u have problems on HF??? take a listen to 5-6 WIDES in a 30 mile area of each other and with that UNPROTO in ADDITION to about 30 or so APRS users with various UNPROTOS from WIDE to 5X WIDE!!

One very active user and highly respected one differs in my opinion that this is poor judgement, we will fight like hell about the subject but neither of us will bow down from our opinion. He is a GREAT person but it is making MANY people unhappy, and all the new users are taking his word as gold making the problem even more difficult. Did I expect this ?? yes.. do I expect it ?? yes.. will it happen on other subjects ?? yes.. welcome to the wonderful world of people that is what makes ham radio fun LIVE WITH IT AND DO YOUR BEST!!!

73's Rich

380. VHF<->HF Gateways in N. Alabama

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 26 Sep 1995 22:02:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950926213434.28555A-100000@greatlakes>
Rendered body type: text/plain

First of all, Bill let me complement you on an excellent set of STREET level maps of Huntsville and Gadsden Alabama! Ralph Fowler was passing through and showed me a few... Congratulations on figuring out how to do the USGS mapmaking at 100K!

Pretty soon you should consider putting together a ZIP package of ALmaos01.zip for distribution! Be sure to follow the instructions in the MAPS.txt file... Thanks

Concerning your latest ANGRY letter... Your threats to react to others mistaken operating practices by QRMing other stations with poor operating practices of your own does not reflect well on the amateur spirit... Sit back, relax a little bit....

It still seems like you do not understand how gates work....

1) What you see on your screen coming in via an HF gateway is coming in through some gateway in YOUR area. If you are operating a special WX net, simply ask the GATEway operator to disable his gate for a while....

2) The HF channel is only 300 baud and it is FULL. Even if the HF channel is 100% full nationwide, the most it can add to your local net is 25% of your local 1200 baud channel... If you or other VHF stations begin routinely beaconing your VHF stuff through your local GATE onto HF, then only 25% of your users would be TOTALLY SATURATE the HF NET nationwide! Now multiply that by 100 other cities like ATLANTA, CHICAGO, BALTIMORE, and every other city in the country and you can easily get to the hundred TIMES 100% overload on HF..

3) This does not mean that it is *wrong* to beacon from VHF to HF, in fact, I will do it if ever I go on a long trip. But it simply means that each station should consider the bandwidth available and decide if his packets for each event are worthy of adding to the narrow HF channel...

3) You should be able to solve your problem with a simple phone call to your local GATEway operator there in Huntsville. Dont try to change the operating habits of everyone in the country to solve a local problem...

Good luck. I do appreciate all your efforts in getting APRS off the ground in the south. Also, now I am looking forward to my next trip (this XMAS) to Florence and passing through your digis...

381. Re: [APRSSIG:3501] Re: VHF<->HF Gateways

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Tue, 26 Sep 1995 23:32:28 -0400
To: aprssig@tapr.org
Message-ID: <199509270332.XAA16089@dylan.mindspring.com>
Rendered body type: text/plain

. As i stated before i have worked hard over the last 2-3
>years in coordinating 145.790 in theis area and i have what looks like the
>only coordinated digi in the surrounding 3 states. So please don't tell me
>what i can or cannot beacon trough my digi. This may sound harsh but i have
>not had any cooperation to speak of nor agreements that the beaconing
>would stop during a heavy weather situation. Therefore i will use my digi in
>any way i see fit, and for whatever i feel helps the local community.

Hi Bill- I thought I saw you on HF up here in Annapolis. Nice to see you finally embracing the Gate concept and HF. I don't see any problem with you sending your position a couple of times an hour.

I'm a bit troubled by your statements about having the only coordinated digi in 3 states. Are you familiar with the way digital is coordinated in the SE states (besides your state)? SERA, the Repeater coordinator does not coordinate packet, but there is a packet coordinator who works *with* them (at east in GA). In GA it is Randy Jarrett WA4MEI (who happens to own an Internet provider Company, by the way).

There are *many* other coordinated digis besides yours (and who coordinated yours, by the way? I wasn't aware that the Alabama Repeater Council did packet.) I know they have a technically deficient approach to coordinating voice repeaters, with their 25 year old mentality 20 KHz bandplan on 2 meters!

BTW- I showed Bob Bruninga your maps. He liked them a lot. Said that they were the most thorough (and large) of any he has seen lately.

Ralph

As a

```
>-----  
>  
>>Unattended VHF to HF beaconing should be prohibited as it serves no real  
>>purpose. Unattended VHF stations would still receive bulletins and users  
>>who know they exist could still send them mail at a PBBS via standard  
>>packet connection without beaconing their posit..  
>>  
>>However, in large metro areas with large APRS user populations, I would  
>>suggest the GATE operator use the BUDLIST command to restrict incoming HF  
>>beacons to specific stations and digipaths in accordance to local wishes.  
>>  
>>And finally, if a local emergency arises, turn the darn gate OFF. If you  
>>run an unattended gate, turn the remote access commands on and share the  
>>password with someone you trust in the emergency organization so they can  
>>turn it off in your absence. (simple command...0 C T cmd: MYGATE NONE)  
>>  
>>  
>>Just a few thoughts, how about some input?  
>>  
>>de Kevin Heyboer KD4UYR  
>>kheyboer@co.pinellas.fl.us  
>>the "Official" Tampa Bay area VHF<->HF GATEway  
>>  
>>  
>  
>  
>  
>
```

382. Re: [APRSSIG:3517] Re: VHF<->HF Gateways

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Tue, 26 Sep 1995 23:55:56 -0400
To: aprssig@tapr.org
Message-ID: <199509270355.XAA22485@dylan.mindspring.com>
Rendered body type: text/plain

Sorry

That message to Bill was supposed to be sent direct.
The old Tapr APRSSIG reply-to field got me again.

Can't someone change the return field to be blank so this won't keep happening?
Maybe when someone fixes redriver.jsc whateveritis

383. VHF<->HF Gateway SOLUTION

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 26 Sep 1995 23:57:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950926233704.28936A-100000@greatlakes>
Rendered body type: text/plain

Bill wrote back that he has been unable to find out who the local GATEWAY operator is in his area. And this makes a good point! So I am replying to the SIG so maybe others can benefit. Here is the problem:

The problem is that the GATE is usually a KAM. And when the KAM is running with APRS, the owner must select either HF or VHF for his posits. This means that although the GATE works both ways, HIS posit and beacons will only show up on ONE band. So, if he has chosen to operate APRS with his KAM on HF, then he will NEVER appear on VHF, although his station is GATING everything on HF onto your VHF net...

My KAM gate in Annapolis is operated on HF. This means it NEVER shows up on any VHF map. Often, though, I have another VHF TNC at the same site running on VHF and it usually has the Gateway symbol... but not always...

SO here is the solution (and responsibility) for GATEway operators (I hope this works...):

After APRS is running, and the TNC is all initialized... use the O-C-T command to talk to your TNC. Then tell the KAM to set BEACON every 0/20. I think this will set BEACON to 0 on HF where APRS is running things, but it will also set the BEACON to every 20 on VHF! So now, the posit WILL show up on VHF. Maybe you can even add this to your INITTAPR.TNC file!?

I guess I can add this to APRS code...

In the meaqntime, since we GATE operators ARE responsible for the load we are placing on our VHF networks, we *owe* it to our fellow VHF'ers to show them who and where we are...

P.S. If you are acting as a gateway but you are operating your KAM on VHF, then there is no problem, because your VHFers are probably not using your GATE to put stuff on to HF so the HF'ers don't care where you are... But again, it wouldn't hurt to put BEACON EVERY 30/0

Thanks Bill for raising this issue. I think we all assumed that you knew who your local GATEway operator was...

384. Re: [APRSSIG:3508] Gate Wars

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Tue, 26 Sep 1995 23:20:50 -0500
To: aprssig@tapr.org
Message-ID: <199509270416.XAA28519@sys1.tapr.org>
Rendered body type: text/plain

Well I'm SHOCKED! I thought I was going to read a new juicy tidbit about the federal trade commission and Bill Gates at war with each other. WRONG Gates war! Still what I've seen while entertaining dismays me, with proposed changes and the hungry hordes with more cash than any mines better than yours ham's, clamoring and waving cash in the Fed's face for your bandwidth; I'd say it's time to focus on the only two reason's to justify not selling off the bandwidth they haven't gotten their hook's into. Public Safety and experimentation! I kind of wished Bob would jump in and reaffirm the original purpose for slaving over the birth of APRS. What were the sample hst files that he provided? Sea going vessel's, parades, public events, gating through HF so the family knew where he was. Public Service is where it's at!

I don't mind weather station's or mobiles gating through HF to VHF but come on here I read about bullitiens and messages being gated! Unless these have

a wider signifigance for public saftey I can't see the justification for it other than statisfying ego.
As to experimatation; Bob used his privilege to operate and an idea and created a beautifal baby! He has always stated the benefits and downfalls of this idea.
I work in city goverment and we are doing a study of electrical buses; for the last year we ran GPS AVL on the bus diesel fleet along with operating data, (oil temp's, gas flows ect) and now have equipped the electric buses with the same package. The point of all this is the software is not as good as APRS, and I have the city ready to evaluate APRS as an alternative. That's what it's also all about using the hobby to show the commercial big buck boy's that there is a better way to do it!
I'm not a ham!(my brother is) I get to play on goverment freq's; so I think I'm a little impartial here. I expect to get flamed some and that's all right. I'll just leave you with two quotes I think will help in these discussion's.

What benifit a man if he gain's the world and loses his soul (freq's)

Pride comes before fall and destruction before a haughty spirit!

barrettd (^-^)

385. Re: [APRSSIG:3506] Re: VHF Gateways

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Sep 1995 00:18:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950927000207.28936B-100000@greatlakes>
Rendered body type: text/plain

On Tue, 26 Sep 1995, Steven S. Dimse wrote:

>
> Bob, I would like to hear your specific comments on these points:
>
> 1. The idea I threw out for a separate GATE path, so that VHF stations
> could put their position through a gate once or twice an hour, without
> putting all the other stuff APRS generates onto HF.
REPLY: Yes, the ALTPATH in 73b (which doesnt work) was supposed to do that

> 2. Modifying the BLN# protocol, so that these beacons are sent at a slow
> rate, say once or twice an hour, and not in response the ?APRS? message.
REPLY: NO. Intention of BLTNS is to get the word out. It has to be at least every 15 to 20 minutes to accomodate new stations on a net. Remember that APRS was desgined for local public service nets. I DO like the suggestion that someone made to have them die after 2 hours, but again, on an HF announcement for something like the last Meteor SHower experiment, that 2 hour limitation would have made it impossible...

> 3. Setting a voluntary limit on the number of messages a station ought
> to send to another station per hour before they ought to move off freq
> for a ragchew. Perhaps the program could even tickle the user if this
> rate is exceeded.
REPLY: I am a conservative and generally dont like restrictive laws to legislate stupidity... APRS has some good legitimate uses, and I hate to cobble that potential because some users just never think about the big picture... We have to live with sloppy operating practices on all the bands and modes, and try to educate individuals as needed...

I dont begrudge the HF guys chatting. IN fact, even with 80 stations on my LOCAL map, about the only chatting going on is on HF, and without them, I wouldnt see much. But I agree, that when they are really going back and forth on a LONG ragchew, they SHOULD change their path to NONE, so that it STAYS on HF only...

And while IM at it. ALL stations should re-think their BULLETINS! I agree that 90% of the ones I see could be said in ONE or 2 lines instead of 8!

And if you are going to put out UPDATES to bulletins, RE-USE the same BLN numbers so that we dont end up with a screen full of old bulletins where only the latest is important! etc. etc..

386. VHF<->HF Gateways

From: jeff.brenton@espi.com
Date: Tue, 26 Sep 95 23:34:13 -0500
To: aprssig@tapr.org
Message-ID: <9509262334.0X41C00@espi.com>
Rendered body type: text/plain

The questions and suggestions about HF gateways brings up a suggestion I *think* I made some months back, but I'm not sure...

Howzabout implementing support for Kantronics' Remote SYSOP function in APRS and MacAPRS? I posted the code I use for automatically logging in, written in Crosstalk's CASL script language, back when I got it working. I use it under OS/2 or Windows by opening a Crosstalk session, either the DOS or Windows version, and telling it which remote to log into... it handles the password prompts for me.

An ideal place would be Ops/Comms/Remote...

Also, on the subject of going to 10m when possible, and running 1200 bps, those of us with KAMs are limited to 300 on HF, so the idea of using two less expensive TNCs, with software in between to regulate the gateway function, would be a much better option for 10m.

387. No Activity - SoCal

From: "Bill Brannick" <brannick@liberty.com>
Date: Tue, 26 Sep 1995 22:00:37 -0800
To: aprssig@tapr.org
Message-ID: <m0sxof0-002qoSC@liberty.liberty.com>
Rendered body type: text/plain

After playing with Bob's software a bit and then sending in the bucks for his kids.. I have found next to NO activity in SoCal...
2 or 3 stations may POP up in the San Diego area but NOTHING in LA/Orange County.... unless their hiding out on some remote frequency (VHF)

Bill Brannick | brannick@liberty.com
" Life is just one damned thing after another "
-- Frank Ward O'Malley

388. Re: [APRSSIG:3480] NO PRICES IN NEW RS CATALOG?

From: kevin@smartlink.net (Kevin Falxa)
Date: Wed, 27 Sep 1995 00:22:44 -0700
To: aprssig@tapr.org
Message-ID: <199509270722.AAA20656@warp10.smartlink.net>
Rendered body type: text/plain

>Perhaps it's because I live in Hawaii and prices are higher, but yesterday I
>picked up the new Radio Shack catalog and am outraged that there are no
>prices listed for any of the items. Instead, theres a 3-panel blue card with
>corresponding stock numbers and prices. I can't believe it. Now, anytime RS
>wants to raise their prices, they just put out a new price list. Are the
>mainland catalogs the same? Aloha, Dave.

Nope, prices in our new catalog, your probably right, they didn't want to print a special edition with different prices entered just for your market so they just left them off & maybe use this printing for other similar markets where prices vary (Alaska) or maybe even currency (Canada?).
Kevin/K060N from Valencia, Calif.

389. The great GATE hunt

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Wed, 27 Sep 1995 07:43:53 +0100 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.950927073143.7974A-100000@pinegov>
Rendered body type: text/plain

Open message to KE4EER and others in No. Alabama,

My APRS HF GATE has been running 24 hours/day without interruption or reset since the weekend. After viewing the Heard log and the stations on the screen since that time, I suspect the "mystery" GATE is none other than our favorite Southeast digipeater....Peter, W7LUS, in Northeast GA.

Apparently both W7LUS and KE4EER-5 are located at high altitudes on top of mountains. This, combined with high RF output, is allowing stations to GATE through Peter into Alabama.

To confirm this, KE4EER needs to send a message via VHF to W7LUS to see if he can talk directly to him. If you get no answer, try connecting to

his mailbox or node.

For final confirmation, have Peter disengage his gate temporarily and then try to send out your posit via the GATE. If it doesn't go out HF, then you have found your mystery gate.

Good Luck.

Kevin KD4UYR.
kheyboer@co.pinellas.fl.us

390. Re: [APRSSIG:3510] Re: Gates

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 27 Sep 95 08:12:43 EDT
To: aprssig@tapr.org
Message-ID: <199509271212.IAA07223@gold.interlog.com>
Rendered body type: text/plain

On Tue, 26 Sep 1995 16:17:31 -0500 you wrote:

>> >
>KAM - \$300
>2 x MFJ1270 - \$230
>
>Seems like an easy choice if you don't need to have tty, amtor, cw, etc,etc,etc.
>
>Provided, of course, that the code is there!!!
>
>
Doug,
I would highly recommend that you get the Kam. Your long term frustration level will be less. The support behind the Kam far exceeds any MFJ unit and you get more flexibility. Just my two cents worth (I have great exposure to all TNC's...) cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

391. Re: [APRSSIG:3519] VHF<->HF Gateway SOLUTION

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Wed, 27 Sep 95 8:35:31 EDT
To: aprssig@tapr.org
Message-ID: <9509271235.AA11355@umed.med.miami.edu>
Rendered body type: text/plain

>
> Bill wrote back that he has been unable to find out who the local GATEWAY operator is in his area. And this makes a good point! So I am replying > to the SIG so maybe others can benefit. Here is the problem:
>
> The problem is that the GATE is usually a KAM. And when the KAM is > running with APRS, the owner must select either HF or VHF for his > posits. This means that although the GATE works both ways, HIS posit and > beacons will only show up on ONE band. So, if he has chosen to operate > APRS with his KAM on HF, then he will NEVER appear on VHF, although his > station is GATING everything on HF onto your VHF net...
>
Except that when the KAM is gating to VHF, it will transmit an ID packet every 10 minutes in order to meet FCC requirements, so the call sign will appear on the freq, although there will not be a position to draw on the map.

> My KAM gate in Annapolis is operated on HF. This means it NEVER shows up > on any VHF map. Often, though, I have another VHF TNC at the same site > running on VHF and it usually has the Gateway symbol... but not always...
>
> SO here is the solution (and responsibility) for GATEway operators > (I hope this works...):
>
> After APRS is running, and the TNC is all initialized... use the O-C-T > command to talk to your TNC. Then tell the KAM to set BEACON every 0/20. > I think this will set BEACON to 0 on HF where APRS is running things, but > it will also set the BEACON to every 20 on VHF! So now, the posit WILL > show up on VHF. Maybe you can even add this to your INITTAPR.TNC file!?
>
> I guess I can add this to APRS code...

MacAPRS transmits everything on both freqs, including WX, ID, BEACON and Posits, when you enter a message you can choose if it is sent over HF, VHF, or both. The program defaults to whichever band it first heard the station to which the message is addressed. Very slick, and will be even better when KISS mode is added, as each message will have a path as direct as possible to the recipient.

>

> In the meantime, since we GATE operators ARE responsible for the load we

> are placing on our VHF networks, we *owe* it to our fellow VHF'ers to

> show them who and where we are...

>

> P.S. If you are acting as a gateway but you are operating your KAM on VHF,

> then there is no problem, because your VHF'ers are probably not using your

> GATE to put stuff on to HF so the HF'ers don't care where you are... But

> again, it wouldn't hurt to put BEACON EVERY 30/0

>

> Thanks Bill for raising this issue. I think we all assumed that you knew

> who your local GATEway operator was...

>

392. More Gate stuff...

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
 Date: Wed, 27 Sep 95 8:48:32 EDT
 To: aprssig@tapr.org (APRS SIG)
 Message-ID: <9509271248.AA11419@umed.med.miami.edu>
 Rendered body type: text/plain

> 2. Modifying the BLN# protocol, so that these beacons are sent at a

> slow

> rate, say once or twice an hour, and not in response to the ?APRS?

> message.

REPLY: NO. Intention of BLTNS is to get the word out. It has to be at

least every 15 to 20 minutes to accomodate new stations on a net.

Remember

that APRS was designed for local public service nets. I DO like the

suggestion that someone made to have them die after 2 hours, but again,

on an HF announcement for something like the last Meteor Shower

experiment, that 2 hour limitation would have made it impossible...

OK, how about two different types, one that worked as it does now, but

killed itself in two hours, and another that was broadcasted twice an

hour until manually killed. That sounds pretty good to me.

Steve K04HD

393. Re: [APRSSIG:3515] Re: VHF Gateways and "Football"

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
 Date: Wed, 27 Sep 1995 09:11:12 +0000
 To: aprssig@tapr.org
 Message-ID: <9509271305.AA04451@oriola.ustc.vlsi.COM>
 Rendered body type: text/plain

Could not agree more. There is nothing wrong with the system or the

software. The only problem is the EGOS of some of the operators who need

to Bcn such things as TGIF via wide.gate, gate. Who cares! Possibly we

will need to have the BUDLIST at gates set up to not pass packets from

habitual offenders. Sounds harsh but the traffic passed by the gate is the

responsibility and at the the descertion of the control op.

>Oh so true!! I kept my mouth shut when I saw all sorts of BLN's that had

>nothing

> that even REMOTELY related to APRS, or even Ham Radio! I am glad that someone

>else felt the same way as I did, when I saw the comment about Football I just

>had to put MY two cents in since that really rubbed me the wrong way at that

>time when I saw it.

>

>While on the subject.... people we are going to see a lot more of these

>problems

> face it we have reached a size where many have different oppinions and many

>will not conform or even listen. We just got to do what we think we must and

>try

>to keep peace among EVERYONE! We will lose a few, I know we will, we already

>have over the years but we will also gain a few and someday maybe welcome back

>others that have left.

>

>I have mixed feelings about gateways, I run one myself and feel that if it

>were

>not for all the activity on HF coming thru to VHF we would have ZIP, nothing.

Bob Baltz *
Chesapeake Region Sales *
Ph: (410) 987- 8777 *
Fax: (410) 987-4489 *
E-mail bob.baltz@ustc.vlsi.com *

>
Doug,
I would highly recommend that you get the Kam. Your long term frustration level will be less. The support behind the Kam far exceeds any MFJ unit and you get more flexibility.
Just my two cents worth (I have great exposure to all TNC's...)

Thanks for the advice, Mike. I was just using the 1270 as an example. The KAM is a fine box, and I'm not criticising or complaining. My point is that if you are going to dedicate a box to a packet to packet gate, the all-modes are mostly wasted. Is the 9612 capable of this?

Doug
KC7CO

396. digital modes on SSB 2m

From: keating@nosc.mil (Roger Keating)
Date: Wed, 27 Sep 1995 08:56:04 -0700
To: ke4htm@hci.net (J Dean - KE4HTM)
Cc: aprssig@tapr.org, WSWSS@aol.com (Western States Weak Signal Society)
Message-ID: <v02120d07ac8f1de77393@[198.253.138.98]>
Rendered body type: text/plain

To ARS KE4HTM,

I'm told your station has broadcast a proposal that 144.180MHz be used for digital packet communications using SSB mode.

The goal of experimenting on the VHF bands with non-FM digital modes is interesting, and perhaps has merit technically, BUT, you ought to check on the current use of these bands (become an expert or consult some) prior to choosing the frequency.

I would have suggested you use 144.295 IF YOU HAVE TO OPERATE IN THE WEAK SIGNAL PORTION OF THE BAND AT ALL. I think this would not be welcome by the people who are already using this sliver of spectrum.

Why not try out this mode in the experimental mode portion of the 2m band?

Packeteers seem to have a poor reputation for respecting band plans, and if this is a genuine representation of what you have proposed, then it confirms and compounds that reputation. I'm sure that does not help anyone.

I urge you to get more information and consult experts and band plan committees before blindly floating public proposals such as this.

If you are trying to be provocative, it isn't appreciated. If you didn't anticipate the effect of this proposal when offered, I urge you to buy flame retardant and carefully consider your reactions to the replies.

I might find using digital modes with VHF SSB interesting, but I do not support the proposal (attributed to you) that I've seen posted on VHF email reflectors.

73

Roger Keating - KD6EFQ
President, Pt Loma ARC - W6RDF
San Diego CA 92152-7010

keating@nosc.mil
W6RDF@nosc.mil
DM12jq

397. More on HF-VHF gates

From: Jeff Ward <jward@marlin.gulf.net>
Date: Wed, 27 Sep 1995 13:14:24 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.90.950927123819.13459A-100000@marlin.gulf.net>
Rendered body type: text/plain

I've been reading with interest the discussion on HF-VHF gates. Here in the Florida panhandle VHF APRS activity is going strong and getting stronger. So strong, in fact, that when one station started gatewaying the HF stuff onto VHF, people started to leave. They simply didn't see the need to, nor did they want to see conversations between guys halfway across the country. Nor did they want to constantly see all those useless bulletins everybody's been talking about. Because of the high VHF traffic volume, competing with the HF packets coming in turned folks off. Now, occasionally a mobile will come through gate-ing, or new folks will come on with their gates running, but they are promptly met with a barrage of courteous requests to turn them off. Sometimes we never see those new stations again, but local activity continues to grow. So now, we are

discouraging the use of HF gateways as we set-up our section-wide ARES/SKYWARN digi network. We were just losing too many folks. So far we've been pretty lucky, and all those stations we've asked to turn off their gates have done so. If (and more likely when) we run across one that won't turn off his gate, we've got contingencies to deal with the problem, at least with all the ARES/SKYWARN affiliated digis.

This is not to say that we don't recognize a potential use for gateways, just that we would probably utilize them on some alternate HF frequency, for our ARES/SKYWARN use only.

APRS is a great program. In some areas of the country it may be advantageous to run HF gates all the time. In others, it may not. There's no reason why anyone should criticize anyone else for their views on how to best apply APRS. But just because a program has a feature built-in, that doesn't mean you HAVE to use it, either.

Just my \$0.02 worth.

73

Jeff, N4TRY

ASM Northern Florida ARES

398. Re: [APRSSIG:3533] More on HF-VHF gates

From: wnolle@ro.com (William Nolle)
Date: Wed, 27 Sep 1995 14:09:26
To: aprssig@tapr.org
Message-ID: <199509271916.OAA23358@sh1.ro.com>
Rendered body type: text/plain

I fully agree with this message from Jeff N4TRY, this is why i'm reposting it. We where starting to really grow in this area also, but due to all the HF gates which of course are users that we cannot communicate with anyway they drifted away and lost interest in APRS for local WX usage. Please forgive the repost but i found it that important, specially since all you users figured i knew who the local HF Gate was, if i did i would deal with it you can rest assured.

Bill KE4EER

>

>I've been reading with interest the discussion on HF-VHF gates. Here in
>the Florida panhandle VHF APRS activity is going strong and getting
>stronger. So strong, in fact, that when one station started gatewaying
>the HF stuff onto VHF, people started to leave. They simply didn't see
>the need to, nor did they want to see conversations between guys halfway
>across the country. Nor did they want to constantly see all those useless
>bulletins everybody's been talking about. Because of the high VHF traffic
>volume, competing with the HF packets coming in turned folks off. Now,
>occasionally a mobile will come through gate-ing, or new folks will come
>on with their gates running, but they are promptly met with a barrage of
>courteous requests to turn them off. Sometimes we never see those new
>stations again, but local activity continues to grow. So now, we are
>discouraging the use of HF gateways as we set-up our section-wide
>ARES/SKYWARN digi network. We were just losing too many folks. So far
>we've been pretty lucky, and all those stations we've asked to turn off
>their gates have done so. If (and more likely when) we run across one
>that won't turn off his gate, we've got contingencies to deal with the
>problem, at least with all the ARES/SKYWARN affiliated digis.

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>This is not to say that we don't recognize a potential use for gateways,
>just that we would probably utilize them on some alternate HF frequency,
>for our ARES/SKYWARN use only.

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>APRS is a great program. In some areas of the country it may be
>advantageous to run HF gates all the time. In others, it may not.
>There's no reason why anyone should criticize anyone else for their views
>on how to best apply APRS. But just because a program has a feature
>built-in, that doesn't mean you HAVE to use it, either.

>

>Just my \$0.02 worth.

>73

>Jeff, N4TRY

>ASM Northern Florida ARES

>

>

>

399. Re: [APRSSIG:3533] More on HF-VHF gates

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Wed, 27 Sep 1995 17:49:49 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950927174703.10184C-100000@pinegov>
Rendered body type: text/plain

Re: Jeff, N4TRY message:

One point I failed to mention...all HF stations, whether they are a gateway or not, should remove the GATE,WIDE from their digipath when conversing with another station. This seems to be the main complaint, not position reporting.

I admit I am as guilty as anyone else from forgetting to change the path, but Bob has built that ability into the program with ease now...so no reason not to..I have about 10 preprogrammed paths with keystroke ease, I no longer have an excuse and I will be more careful in future...

my \$.02 reply.

73 de Kevin KD4UYR

400. Re: [APRSSIG:3531] Re: Gates and GATE Equipment

From: n2czf@gate.net
Date: Wed, 27 Sep 1995 18:05:37 -0400
To: aprssig@tapr.org
Message-ID: <199509272205.SAA106047@tequesta.gate.net>
Rendered body type: text/plain

I do not want to start another argument here (we have enough right now!) but just my PERSONAL two cents worth....

The KAM and KAM+ are fine units and I have one of each here on the desk but I would question the chosing of a KAM over MFJ if it will only be for a dedicated use. I also have a 1274 MFJ and a PK-900 here (many others for VHF also) and have found that the KAM and KAM+ fall a bit short on pulling in the packet signals even with the least bit of QRM or QRN, seems that the internal filtering leaves a little to be desired. If SUPPORT is the question I agree, kind of.... I would chose NEITHER! I think that both MFJ and Kantronics both stink in the customer service deppartment.

Back to results, the PK-900 right next to a KAM+ will pull signals out of the band that the KAM+ cannot. Same rig, same antenna, same everything the only difference is the seconds it takes me to switch the cable and re-adjust the audio for the two units. Some day I will try to set up a Y connector with the correct padding so both can be driven at the same time and have 2 PC's running to see which one prints out more packets.

What this proves is that nothing is perfect, the PK-900 is expensive, the KAM is good but not as good and the MFJ will do the job well for less \$\$ as long as you feel you do not need help from MFJ. Take your time and think it out, either way any of the TNC's will do but you may or may not be 100% satisfied.

73's Rich N2CZF
n2czf@gate.net

401. Re: [APRSSIG:3528] More Gate stuff...

From: n2czf@gate.net
Date: Wed, 27 Sep 1995 18:09:58 -0400
To: aprssig@tapr.org
Message-ID: <199509272209.SAA76844@tequesta.gate.net>
Rendered body type: text/plain

Yep 2 types of BLN's would be good as long as the APRS code can handle the added space, I think it might be geting to a maximum now (yes Steve I know MAC does not have this problem hi hi).

The biggest problem will be to have people use it in a smart manner! Some might say to heck with it I am going to place this in whatever mode that will create the most racket! If we have an option it will only be useful if it is used by all.

73's Rich

402. Re: [APRSSIG:3533] More on HF-VHF gates

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Wed, 27 Sep 95 18:22:33 EDT
To: aprssig@tapr.org
Message-ID: <9509272222.AA13381@umed.med.miami.edu>

Rendered body type: text/plain

>
>
> I've been reading with interest the discussion on HF-VHF gates. Here in
> the Florida panhandle VHF APRS activity is going strong and getting
> stronger. So strong, in fact, that when one station started gatewaying
> the HF stuff onto VHF, people started to leave. They simply didn't see
> the need to, nor did they want to see conversations between guys halfway
> across the country. Nor did they want to constantly see all those useless
> bulletins everybody's been talking about. Because of the high VHF traffic
> volume, competing with the HF packets coming in turned folks off. Now,
> occasionally a mobile will come through gate-ing, or new folks will come
> on with their gates running, but they are promptly met with a barrage of
> courteous requests to turn them off. Sometimes we never see those new
> stations again, but local activity continues to grow. So now, we are
> discouraging the use of HF gateways as we set-up our section-wide
> ARES/SKYWARN digi network. We were just losing too many folks. So far
> we've been pretty lucky, and all those stations we've asked to turn off
> their gates have done so. If (and more likely when) we run across one
> that won't turn off his gate, we've got contingencies to deal with the
> problem, at least with all the ARES/SKYWARN affiliated digis.
>
> This is not to say that we don't recognize a potential use for gateways,
> just that we would probably utilize them on some alternate HF frequency,
> for our ARES/SKYWARN use only.
>
> APRS is a great program. In some areas of the country it may be
> advantageous to run HF gates all the time. In others, it may not.
> There's no reason why anyone should criticize anyone else for their views
> on how to best apply APRS. But just because a program has a feature
> built-in, that doesn't mean you HAVE to use it, either.
>
Absolutely right, and it sounds like your area is doing a good job of
making APRS work for you needs and interests. Here is South Florida,
there is little if any Skywarn activity, and the people that use APRS do
so for different reasons. I've run my gate on most of the time for the
last year or more. In all that time no one has ever complained about the
level of traffic coming thru the gate. Our biggest problem is too many
people running WIDE on VHF. The presence of my and other gates has
attracted people to what would otherwise have been another mostly empty
packet freq in SFL. The real thrust of this discussion isn't whether
gates should go from HF to VHF, but the other way around.

73 de Steve

403. Confused with File Saves

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Wed, 27 Sep 1995 15:44:29 -0700
To: aprssig@tapr.org
Message-ID: <9509272238.AA09671@gvgadg.gvg.tek.com>
Rendered body type: text/plain

I been working on APRS configurations for my home pc and my laptop - with
and without the port switch to the GPS.

I'm a bit confused about the difference, if any, between saving the config
using Alt S SAVE and File - Save commands. Is there a difference? Should one
be used over another? I've been saving the file as qth.qth and opening APRS
using APRS7/qth.qth. I think I am running ver 7.0 (I'm at work and APRS is
at home).

I like to run with the junk filter ON, map labels feature and beeps OFF.
These settings don't seem to be stored in the config. Are these supposed to
be saved? Am I doing something wrong?

I also notice a 'i' in front of some calls on the map and posit list, like
iWA2AGE. What is happening with this?

Also, when setting up the unproto path, the U command: Do I enter ARPS,WIDE
or just WIDE (or callsign of digi)?

Still learning, using and reading about APRS!!!

Randy
WA2AGE

I disclaim everything.

Randy Hall WA2AGE randyh@gvgadg.gvg.tek.com Grass Valley Group

From: krogers@nosc.mil (Kenneth E. Rogers)
Date: Wed, 27 Sep 95 15:56:44 PDT
To: aprssig@tapr.org
Message-ID: <9509272256.AA09401@marlin.nosc.mil>
Rendered body type: text/plain

```
>After playing with Bob's software a bit and then sending in the bucks
>for his kids.. I have found next to NO activity in SoCal...
>2 or 3 stations may POP up in the San Diego area but NOTHING in
>LA/Orange County.... unless their hiding out on some remote frequency
>(VHF)
```

Is LA/Orange County really that sparse for APRS?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Sep 1995 19:11:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950927185122.13673A-100000@greatlakes>
Rendered body type: text/plain

2) None of the feedback gives me any clear idea whether DOZ mode does anything good... One station said that his system works "better" with DOZ on, but what does that mean?

To make DOZ error free in the background will take some more work, but from the feedback, I don't see that DOZ solved anything.

What follows here are all the comments cut down to size....

From: KSwaggart@aol.com
I was able to use APRS in WIN95 in forground, but not background.
I tried both 16 color and 64 color VGA. Before, with Windows for
Workgroups, I could run it fine in the background if I used 16 color
mode (display setup), but only full screen with 256 colors.

Page 1211

I'm not having much luck with APRS 6.6 and Windoze 95.

1. When APRS is in full screen mode, everything works fine
2. When APRS is running in a window (alt-Enter), aprs is apparently running. All the letter and number keys work fine, but not the cursor pad or PgUp/PgDn. The display is a perfect 640x350 dot box on my 1024x768 screen.
3. When APRS is running in a window, the priority is apparently low enough that the usual beeps are sometimes extended to extra long tones. This seems to be controlled by whether the APRS window is the "active" (mouse inside) window.
4. The Windoze 95 "System Monitor" shows that APRS probably has a "spin loop" that consumes CPU cycles waiting for input. Kernel processor usage runs 100% with APRS active.
5. Shoving APRS from full screen to the "Task Bar" (alt-Esc) results in APRS going comatose. Input is apparently buffered in the TNC as switching to the foreground results in a buffer flush.

From: Don Smith <kd4ksv@hiwaay.net>
Been using it for about 4 months with no problems.
-----< Don KD4KSV >-----

From: jeff.brenton@espi.com
Bob, APRS works fine in the background under Windows and OS/2, if you are willing to accept certain restrictions. If you will accept 16 or 64 color modes, APRS can run in the background. If no task makes use of the high-resolution VGA (256 color), APRS will run when in the background. However, most multimedia products insist upon 256 or even 32,767 color modes be enabled. Under OS/2, since the Presentation Manager (aka the "desktop") is always running, and is set to the high resolution, APRS stops when in background, unless you limit it to CGA graphics (looks ugly!). In Windows 256 color mode, if you run two DOS tasks (APRS being one of them), APRS will run when the second DOS task is running full screen in the foreground, but it will stop if you try to run it in a window, with Program Manager or some other GUI program running. This has been my experience - the last item (APRS running in background with another DOS task in the foreground) actually surprised me; I hadn't tried just switching between the DOS tasks during the first test.

From: Dan Reilly <72076.2270@dub-gw-16.compuserve.com>
Bob, I've never had any trouble running any version of APRS in the background with either Windows 3.1, 3.11 or 95. I can't understand all the trouble others are having. Dan W4NMMK

From: jeff.brenton@espi.com
The problem is that, once you select the video mode, until you select a different one, Windows and OS/2 will consider it in conflict, and not doing the updates wouldn't help. If you can sense the switch to background and go to a text or lower-res video mode, that would do it, and come back to normal when in the foreground.
[APR COMMENT: That's what DOZ was supposed to do]

From: Bob Baltz <bob.baltz@ustc.vlsi.COM>
I ran 73b in the background of WFW3.1 at 50% opening it via a PIF. It worked fine as long as you sent it to the background while in the map mode. It returned in the show via (D page) not a problem. It sent and rcvd packets fine. The only noticeable difference was that at 50% priority the audio signals for new pos etc were longer than normal. I did not use DOZ. This basically lets APRS do its thing as you go off and use the machine for other things. It also ran in a <100% window but REAL SLOW.

From: BAIRDBAIRD@aol.com
Am running APRS 73B in windows in a 50% window. Works fine. Equipment is old 386 /8meg ram/ 640x480x16 colors vga/ refurb IBM color monitor. Runs slow if trying to use another graphics app. Also run APRS on 486/ 66dx-16meg ram 1024x780vga runs acceptable speed. Have been doing that for past year or so.

From: Jack Anderson <n4uls@ix.netcom.com>
The default PIF should work fine, provided you have background execution enabled, and you are running APRS in a full screen and not a window. APRS should also work in a window, but it might be slower and there may be problems with the graphics. You can play with the font setting to get different window sizes.

From: Jack Anderson <n4uls@ix.netcom.com>
Others may be able to answer this better. I have run it under windows before in a full screen session and noticed no problems with the program in the background or foreground. Of course, it does not release timeslices, so the effect of having it running in the background is

quite noticable on a 386. It flies on a 486 though. I have not tried 73b or the DOZE mode.

406. Re: [APRSSIG:3539] Confused with File Saves

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Sep 1995 19:26:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950927192241.13673C-100000@greatlakes>
Rendered body type: text/plain

On Wed, 27 Sep 1995, Randy Hall wrote:

> I'm a bit confused about the difference, if any, between saving the config
> using Alt S SAVE and File - Save commands. Is there a difference? Should one

APR REPLY: Config saves all (most all) of your settings. FILE-SAVE, saves the data in all the APRS LISTS... and MAP.

> I like to run with the junk filter ON, map labels feature and beeps OFF.
> These settings don't seem to be stored in the config. Are these supposed to
> be saved? Am I doing something wrong?

REPLY: Some of these omissions are intentional to make sure someone doesn't accidentally configure for a detrimental mode and never know he is missing something, others I haven't remembered to add to CONFIG...>

> Also, when setting up the unproto path, the U command: Do I enter ARPS,WIDE
> or just WIDE (or callsign of digi)?

REPLY: Read digis.txt and other docs... :-)

407. Re: [APRSSIG:3542] Re: Confused with File Saves

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Wed, 27 Sep 1995 16:53:37 -0700
To: aprssig@tapr.org
Message-ID: <9509272347.AA09863@gvgadg.gvg.tek.com>
Rendered body type: text/plain

>On Wed, 27 Sep 1995, Randy Hall wrote:

Bob,

Thanks for the reply.

Randy

"[Tektronix] policy guidelines for posting to electronic communication systems state that personal opinions outside the duties of an employees assigned job must be accompanied by a disclaimer."

I disclaim everything.

Ethernet, the RS-232 of the 90s.

Randy Hall WA2AGE randyh@gvgadg.gvg.tek.com Grass Valley Group

408. Re: [APRSSIG:3540] Re: No Activity - SoCal

From: jkeck@smartlink.net (james keck)
Date: Wed, 27 Sep 1995 17:38:50 -0700
To: aprssig@tapr.org
Message-ID: <199509280037.RAA18553@warp10.smartlink.net>
Rendered body type: text/plain

>Bill Brannick wrote

>

>>After playing with Bob's software a bit and then sending in the bucks
>>for his kids.. I have found next to NO activity in SoCal...
>>2 or 3 stations may POP up in the San Diego area but NOTHING in
>>LA/Orange County.... unless their hiding out on some remote frequency
>>(VHF)

>Ken Rogers also wrote:

>Is LA/Orange County really that sparse for APRS?

The major problem facing lack of activity in SoCA is the ability to place all APRS activity on a common channel, i.e., 145.790 MHZ.... At the present time, some individuals are operating APRS from their home locations, as a small group of HAMS who want to use 145.785 as their simplex, autopatch, repeater channel has delayed the development of any WIDE area stations.

The Southern CA Digital Communications Council Board of Directors will meet this Saturday, September 30, 1996 at DANA School on Aviation Blvd. A packet workshop will be held from 11:00 AM until about 1:00 PM following the TRW Swapmeet, at the same location.

- 1) This subject should be discussed during the meeting and I would encourage any individual who supports the development of APRS in SoCA to attend and make your desires known to the Board Members.
- 2) Your participation in the Council would also be helpful. Join the group and make sure that everything possible is done to designate an APRS Frequency, preferably 145.790 MHZ.
- 3) Subscribe to the scdcc mailing list and send some email to the other members and the Board of Directors, most of whom also subscribe. (EMAIL me direct for details on joining the mailing list.)
- 4) Politic TASMA, 220SMA and SCRRBA and exert some influence on their Board of Directors to get some action.

I would like to hear from others who have similiar problems, recommended solutions, suggestions, etc. Please email me direct rather than involving everyone else in a local issue.

73

Jim Keck, N6HNY
SCDCC Director

409. ARRL S.E.T.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Sep 1995 20:52:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950927203603.14137A-100000@greatlakes>
Rendered body type: text/plain

I just heard that Oct 21 is the target date that the ARRL is encouraging all section emergency coordinators to schedule their annual Simulated EMergency Tests. Maybe it is time to introduce APRS to the SET. My uninformed knowledge of SET's is that each section sort of does its own thing with each EC sort of developing an emergency scenario for his county...

There are several opportunities:

- 1) Take APRS to your EOC to show what it looks like
- 2) Activate APRS mobiles for some simulated emergency vehicles
- 3) Get all your local APRS stations on the air...
- 4) Depending on activity, keep most packets local except for valid simulated traffic for intra-sectional traffic
- 5) On HF simulate traffic of national significance (IE Hurricanes)

Work with the existing EC in your area to integrate yourself into their planned exercise. Be careful NOT to overload the APRS NET with fires in every trash can. Yes each one of us could put 50 emergency objects on our screens and beacon them far and wide, but what we would end up demonstrating is gridlock and stupidity, hi hi...

In contrast to all the arguing about who is using his APRS station "properly" and who is "not", here is an opportunity to at least try to do something useful, hi hi...

410. Re: [APRSSIG:3523] No Activity - SoCal

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Wed, 27 Sep 1995 21:20:20 -0400
To: aprssig@tapr.org
Message-ID: <199509280120.VAA23332@dylan.mindspring.com>
Rendered body type: text/plain

At 12:23 AM 9/27/95 -0500, you wrote:
>After playing with Bob's software a bit and then sending in the bucks
>for his kids.. I have found next to NO activity in SoCal...
>2 or 3 stations may POP up in the San Diego area but NOTHING in
>LA/Orange County.... unless their hiding out on some remote frequency
>(VHF)
>
> Bill Brannick | brannick@liberty.com
> " Life is just one damned thing after another "
> -- Frank Ward O'Malley
>
>
Bill- seems as if I remember that they are on a weird frequency. There's
an internet web page that discusses activity in CA (North, I think). If you
don't know that page, I'll try to check it and email you the freq. Maybe
someone else here knows it and can get it to you quicker.

Ralph Fowler

411. Re: [APRSSIG:3525] The great GATE hunt

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Wed, 27 Sep 1995 21:20:25 -0400
To: aprssig@tapr.org
Message-ID: <199509280120.VAA23350@dylan.mindspring.com>
Rendered body type: text/plain

Dunno if it has anything to do with anything, Kev- but I haven't seen Peter's
station on VHF in Atlanta (and I usually do) in over 2 weeks! Could he
still be gating?

I think there is a station gating in Athens, GA (KN4WK ?) and I also think
Jasper GA (KB4IZF) also does it. Not being too familiar with the Gate
operation, I don't know if this info is worthwhile but maybe it will help.

I think a lot of people gate without realizing the impact on other users.

Ralph

At 06:52 AM 9/27/95 -0500, you wrote:
>
>Open message to KE4EER and others in No. Alabama,
>
>My APRS HF GATE has been running 24 hours/day without interruption or
>reset since the weekend. After viewing the Heard log and the stations on
>the screen since that time, I suspect the "mystery" GATE is none other
>than our favorite Southeast digipeater....Peter, W7LUS, in Northeast GA.
>
>Apparently both W7LUS and KE4EER-5 are located at high altitudes on top
>of mountains. This, combined with high RF output, is allowing stations
>to GATE through Peter into Alabama.
>
>To confirm this, KE4EER needs to send a message via VHF to W7LUS to see
>if he can talk directly to him. If you get no answer, try connecting to
>his mailbox or node.
>
>For final confirmation, have Peter disengage his gate temporarily and
>then try to send out your posit via the GATE. If it doesn't go out HF,
>then you have found your mystery gate.
>
>Good Luck.
>
>Kevin KD4UYR.
>kheyboer@co.pinellas.fl.us
>
>
>

412. Re: [APRSSIG:3531] Re: Gates

From: mwalker@interlog.com (Mike Walker)
Date: Thu, 28 Sep 95 08:36:59 EDT
To: aprssig@tapr.org
Message-ID: <199509281237.IAA09228@gold.interlog.com>
Rendered body type: text/plain

On Wed, 27 Sep 1995 10:07:25 -0500 you wrote:

>On Tue, 26 Sep 1995 16:17:31 -0500 you wrote:
>
>>> >
>>KAM - \$300
>>2 x MFJ1270 - \$230
>>
>>Seems like an easy choice if you don't need to have tty, amtor, cw,
>etc,etc,etc.
>
>>
>>Provided, of course, that the code is there!!!
>>
>>
>Doug,
>I would highly recommend that you get the Kam. Your long term
>frustration level will be less. The support behind the Kam far
>exceeds any MFJ unit and you get more flexibility.
>Just my two cents worth (I have great exposure to all TNC's...)
>
>Thanks for the advice, Mike. I was just using the 1270 as an example. The KAM
>is a fine box, and I'm not criticising or complaining. My point is that if you
>are going to dedicate a box to a packet to packet gate, the all-modes are mostly
>wasted. Is the 9612 capable of this?
>
>
The 9612 is capable, if you want 9600 on the second port.

For point to point VHF 1200 baud, then your setup should function OK
cheers..mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

413. Re: [APRSSIG:3523] No Activity - SoCal

From: Dick Mead <mead@skat.usc.edu>
Date: Wed, 27 Sep 95 23:10:35 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.812268636.mead@sol.usc.edu>
Rendered body type: text/plain

> After playing with Bob's software a bit and then sending in the bucks
> for his kids.. I have found next to NO activity in SoCal...
> 2 or 3 stations may POP up in the San Diego area but NOTHING in
> LA/Orange County.... unless their hiding out on some remote frequency
> (VHF)
>
> Bill Brannick | brannick@liberty.com
> " Life is just one damned thing after another "
> -- Frank Ward O'Malley
>

Bill,
There are only a few of us in SoCal on HF. I usually only come on
during weekends/holidays on HF. Currently, VHF is sparse and scattered
with a couple of us on 146.745 (-600) duplex repeater. Some movement
has surfaced to put APRS on 145.65 but I haven't heard any more on that
and 145.79 is only 5kHz above a net freq that may keep that from being
chosen in LA/Orange county, regardless of what San Diego has decided.

Dick WB6NGC

414. Re: [APRSSIG:3542] Re: Confused with File Saves

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Thu, 28 Sep 1995 08:50:55 -0400
To: aprssig@tapr.org
Message-ID: <199509281255.IAA09821@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

>> I like to run with the junk filter ON, map labels feature and beeps OFF.
>> These settings don't seem to be stored in the config. Are these supposed to
>> be saved? Am I doing something wrong?
>
>REPLY: Some of these omissions are intentional to make sure someone doesn't
>accidentally configure for a detrimental mode and never know he is missing
>something, others I haven't remembered to add to CONFIG...>
>

Bob... It would be nice to save "callsigns off" in the config so that when operating standalone you only get the posit dots and don't clutter the map with your callsign.

Bob Kirk
N30ZB

415. Re: [APRSSIG:3536] Re: Gates and GATE Equipment

From: "Jim Lynch" <k4gvo@america.net>
Date: Thu, 28 Sep 1995 05:38:22 +0000
To: aprssig@tapr.org
Message-ID: <199509280936.JAA02310@america.net>
Rendered body type: text/plain

> Date: Wed, 27 Sep 1995 17:37:49 -0500
> Reply-to: aprssig@tapr.org
> From: n2czf@gate.net
> To: aprssig@tapr.org
> Subject: [APRSSIG:3536] Re: Gates and GATE Equipment

> I do not want to start another argument here (we have enough right now!) but
> just my PERSONAL two cents worth....

> Back to results, the PK-900 right next to a KAM+ will pull signals out of the
> band that the KAM+ cannot. Same rig, same antenna, same everything the only
> difference is the seconds it takes me to switch the cable and re-adjust the
> audio for the two units. Some day I will try to set up a Y connector with the
> correct padding so both can be driven at the same time and have 2 PC's running
> to see which one prints out more packets.

(snip)

> 73's Rich N2CZF
> n2czf@gate.net
>
>

And if you compare the weight of the manuals, the PK-900 is 7x as
good as a KAM+! 8^)

Seriously, most of the novice users that have gotten KAM's around
here are completely in the dark 'cause the documentation is so awful.

Jim.
Jim Lynch Fayetteville, GA K4GVO
'86 GL1200I k4gvo@america.net 44.36.34.20

416. Re: [APRSSIG:3495] Garmin address?

From: gerryc@metronet.com
Date: Thu, 28 Sep 1995 06:56:23 -0600
To: aprssig@tapr.org
Message-ID: <v0151010eac904ad38b42@[192.245.137.210]>
Rendered body type: text/plain

>Anybody got the address/phone number for Garmin? For those out there who
>own Garmin '45's, maybe you have it in the manual....hi

The Address and Phone for Garmin is

Garmin International
9875 Widmer Road
Lenaxa Kansas 66215

Phone 913-599-1515
Fax 913-599-2103

417. Unsubscribing help

From: "Warren E. Boudrie" <web@vectorbd.vivanet.com>
Date: Thu, 28 Sep 1995 12:09:32 +000 (UTC)
To: aprssig@tapr.org
Message-ID: <Pine.3.87.9509281232.B26510-0100000@vectorbd.vivanet.com>
Rendered body type: text/plain

Can someone tell me how to contact the sysop who handles the listserver
for APRSSIG. Because I subscribed to APRSSIG under one address and now
have a new E-mail address (I still receive under the old address) the
correct method for unsubscribing does not work. When I send an unsubscribe
message I get a reply saying that I never did subscribe.

I've tried various E-mail addresses to try and get someone at tapr to

manually unsubscribe me but nothing seems to work. A good E-mail, packet or land line number for a "live" person would sure be appreciated.

Warren, AA2LQ in Pittsford NY

web@vectorbd.vivanet.com AA2LQ @ WB2WXQ.#WNY.NY.USA.NOAM

418. Re: [APRSSIG:3537] Re: More Gate stuff...\

From: sdimse@umed.med.miami.edu (Steven S. Dimse)
Date: Thu, 28 Sep 95 8:14:33 EDT
To: aprssig@tapr.org
Message-ID: <9509281214.AA15996@umed.med.miami.edu>
Rendered body type: text/plain

>
> Yep 2 types of BLN's would be good as long as the APRS code can handle the added
> space, I think it might be getting to a maximum now (yes Steve I know MAC does
> not have this problem hi hi).
>
> The biggest problem will be to have peopple use it in a smart manner! Some might
> say to heck with it I am going to place this in whatever mode that will create
> the most racket! If we have an option it will only be useful if it is used by
> all.
>
Yes, but both of the modes limit the QRM. One puts out a lot of messages
and then goes away in two hours, the other puts out twice an
hour....neither creates the QRM possible with the current setup!

Steve, K04HD

419. Re: [APRSSIG:3548] Re: Gates

From: dwetzel@acs.uswest.com
Date: Thu, 28 Sep 1995 08:49:41 -0500
To: aprssig@tapr.org
Message-ID: <06aa01f0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

>wasted. Is the 9612 capable of this?
>
>
The 9612 is cabable, if you want 9600 on the second port.

For point to point VHF 1200 baud, then your setup should function OK

That would make a nice "2nd generation gateway" - 1200 bps 10 meters to 9600 bps
2 meters...

Doug

420. Re: [APRSSIG:3546] Re: No Activity - SoCal

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Thu, 28 Sep 1995 09:13:43 -0700
To: aprssig@tapr.org
Message-ID: <v01510100ac9073d978ac@[128.149.100.84]>
Rendered body type: text/plain

I believe most of the LA-area APRS activity is on the Saddle Peak packet
repeater, 146.745-. One of these days I'll get on the air and see...

-Greg

--

Gregory R. LaBorde - KD6MSM	Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory	AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET	Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive	Phone : (818) 393-1107
Pasadena, CA 91109	

421. RS CATALOGUE PRICES

From: DDOBBINS@aol.com
Date: Thu, 28 Sep 1995 12:26:43 -0400
To: aprssig@tapr.org
Message-ID: <950928122642_111642171@mail02.mail.aol.com>
Rendered body type: text/plain

Thx to those who replied. The U.S. mainland version has prices listed. RS made a "special" catalog for English readers outside the mainland THAT HAS NO PRICES LISTED so they can mark up the price for overseas shipment. I'm still in shock. Next time I'm on the mainland I'll pick up the real catalogue. That way I can see how much more RS is ripping me off for living in paradise. Oh well, back to the sun and beach. I hear a tan calling me. Aloha, Dave.

422. Detailed maps

From: JAgrelo@aol.com
Date: Thu, 28 Sep 1995 15:27:31 -0400
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <950928152729_31721029@mail02.mail.aol.com>
Rendered body type: text/plain

We are looking for someone to create detailed maps 1) A couple of regional maps of NY including ALBANY, TROY, SCHENECTADY, SCOTIA, AMSTERDAM, SARATOGA, BALLSTON SPA areas. 2) Street level maps including SCHENECTADY, SCOTIA, DUANSBURG, ROTTERDAM, MARIAVILLE.

Possibly this Bill gentleman who did 100k usgs Alabama maps, or John Baum -KB8JX0.

We need to have them done in short order (fast, yesterday, quick).

Please, please, please, beg, beg, beg.

>

> -----

>
> Joe Agrelo/N200C
> Agrelo Engineering
> JAgrelo@aol.com
> Ph: (518)381-1057
>

> Intelligent Microprocessor based Doppler and talking
products

>
>
> Experts in MicroChip and Motorola
>

423. Re: [APRSSIG:3551] Re: Gates and GATE Equipment

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Thu, 28 Sep 1995 15:04:00 -0500
To: aprssig@tapr.org
Message-ID: <9509281504.AA00340@oscar.tbr.state.tn.us>
Rendered body type: text/plain

> Seriously, most of the novice users that have gotten KAM's around here
> are completely in the dark 'cause the documentation is so awful.

>
> Jim.
> Jim Lynch Fayetteville, GA K4GVO '86 GL1200I
> k4gvo@america.net 44.36.34.20

Quite true. I purchased a used KAM several years ago as my first TNC. It wasn't until I bought a KPC-3 a year later that things started to make sense. The KPC-3 comes with some nice introduction to packet documentation. After reading all of the KPC-3 docs I could start making sense of the KAM docs. Part of the problem with the KAM docs is that Kantronics tried to write one manual to cover the operations of 4 or 5 TNCs (KAM, KPC-2, KPC-4, KPC2400, ?).

Bruce

424. Answer Man Assistnace?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Sep 1995 12:11:58 -0400 (EDT)
To: aprssig@tapr.org
Cc: girard@panix.com
Message-ID: <Pine.SUN.3.91.950928120524.22678C-100000@greatlakes>
Rendered body type: text/plain

Our thanks to Jess for his contribution!

But now we need another volunteer to serve as an ANSWER man for subscribe issues. Here is Jess's retirement letter, hi hi...

From: Jess Girard <girard@panix.com>

As you know I undertook the responsibility of helping those who have subscribe/unsubscribe issues, and I have a file I call aprssig.txt which explains how to perform those functions correctly. I typically send that file to everyone who erroneously sends a subscribe or unsubscribe request to the the reflector rather than to the tapr robot.

I'd like to unsubscribe myself for a while. May I send that file to you? Or would you prefer I send a similar message to APRSSIG and see if someone wants to be the custodian? I just can't seem to make the free time lately...sorry.

Thanks Jess; Anyone else?

425. Re: [APRSSIG:3553] Unsubscribing help

From: n2czf@gate.net
Date: Thu, 28 Sep 1995 17:19:57 -0400
To: aprssig@tapr.org
Message-ID: <199509282119.RAA32427@tequesta.gate.net>
Rendered body type: text/plain

I have the same problem as Warren does with UNSUBSCRIBE! I started with limited Internet and now have a different account on a PPP system. I have forwarded all of my mail from one to the other account and get 2!!! of each APRSSIG message since I cannot unsubscribe but got to have the forwarding so I do not miss any mail that goes to the old address for a while.

Help PLEASE for both Warren and I.

de Rich N2CZF
n2czf@gate.net

426. Re: [APRSSIG:3560] Answer Man Assistnace?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 28 Sep 1995 17:26:34 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199509282226.RAA29786@solar.cs.tamu.edu>
Rendered body type: text/plain

Ship the aforementioned file my way... I can deal with the subscription issue for a while.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

427. BULLETIN decay

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Sep 1995 20:54:52 -0400 (EDT)
To: aprssig@tapr.org
Cc: Prof Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.950928204548.362D-100000@greatlakes>
Rendered body type: text/plain

I made an easy fix to bulletins...

1) All normal bulletins (BLN0 to BLN9) will decay forever. This means that there will be one at 16 secs, 32, 1min, 2min, 4min, 8min, 16 min, 30min, 1hour, 2hours, 4hours, 8hours, etc.... This is just about the same thing as killing it after 2 hours...

2) There is another bulletin structure that will retain the current way of doing business, and that is to decay down to 15 minutes and stay at that rate. No need to publish this to all the "LIDS" on frequency, hi hi It will be in the DOCS...

428. Baycom with APRS

From: eboatman@phoenix.phoenix.net (Earl Boatman)
Date: Thu, 28 Sep 95 20:11:12 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.950928201527.eboatman@>

Rendered body type: text/plain

Is there any way to use a baycom modem with APRS.

Thanks Earl Boatman KB0NRK

429. GPS45 and Tiny-2

From: gphowell@soulcage.inmind.com (Geep Howell)
Date: Thu, 28 Sep 95 21:41:06 EDT
To: aprssig@tapr.org
Message-ID: <199509290202.WAA17420@crucible.inmind.com>
Rendered body type: text/plain

This may be overkill since I sent a private message to Gwynn at PacCom, but here goes. Anyone out there that can offer any help on making the Garmin GPS45 work with the Tiny-2's GPS mode. I think I have all the parameters right, and have tried both GP words to no avail. I have been able to make the TNC recognize the GPS in the UIMODE mode by using the 1k/10k resistor network that Bob suggests, but I don't want a continuous data stream. Trying to get the setup running for a 10 mile foot race (Yes, K4GV0, the Va Tenmiler lives...) on Saturday -- guess I should have started a bit earlier, huh. Thanks in advance, Geep WA4RTS in Lynchburg VA

BTW Bob, by tomorrow evening there should be a WIDE digi at about 2800 feet on 145.79 and I am told that several others are going up in the area, so perhaps you will be able to see us before long. The site favors the east, so its possible that we will see any activity in the Richmond, VA area. We need another TNC to get the RELAY and WIDE aliases in X1J code -- WA4BWB bought a PK12 which according to K4ABT does not support X1J. Live and learn, 73 all

430. Garmin 45 and Tiny-2

From: gphowell@soulcage.inmind.com (Geep Howell)
Date: Thu, 28 Sep 95 21:51:05 EDT
To: aprssig@tapr.org
Message-ID: <199509290208.WAA17479@crucible.inmind.com>
Rendered body type: text/plain

This may be overkill since I have sent a private message to Gwynn at PacCom, but here goes (time is running out) Anyone know the trick to getting the GPS-45 to work in GPS mode with the Tiny 2. I have gotten the TNC to recognize the GPS output using the two resistor trick but only in UIMODE and I don't want data all the time. Have tried both GP words and even reset the serial parameters to 7 bits instead of 8, all to no avail. I think all the parameters are OK but it never seems to get a work in the LTEXT spot to trigger the beacon function. Help! I have a ten mile foot race coming up on Saturday, and was planning on using the combination for a standalone tracker. That's what I get for waiting to the last minute.

To WB4APR -- a WIDE digi on Tobacco Row Mountain should be in place on .79 by this weekend. As soon as we get and X1J compatible tnc, it will be WIDE/RELAY, but the PK12 that WA4BWB bought to use doesn't support the code, according to K4ABT who was going to do a prom for us. Should hear well to the east from Lynchburg, perhaps even pick up some of those richmond folks.

73, Geep WA4RTS (gphowell@inmind.com)

431. Poor KAM documentation.

From: Turnstone@aol.com
Date: Fri, 29 Sep 1995 00:00:45 -0400
To: aprssig@tapr.org
Message-ID: <950929000043_112242139@mail06.mail.aol.com>
Rendered body type: text/plain

Tom Mosher, KC7AGK in Salem, OR says:

Amen to Jim Lynch regarding how awful the manual that comes with the Kam Plus is. It's basically unusable as a tool for learning how to operate the digital modes. The manual consists of just descriptions of the commands in alphabetical order, with a short and thin description of each of the operating modes. No instruction at all on the nuances of how to set up the configurable parameters. I love how it operates, though.
/ex

432. RACES & APRS

From: ron.b.cohen@dscmail.com (RON B COHEN)
Date: Thu, 28 Sep 95 23:10:00 -5
Message-ID: <8B1F56E.000E032A4B.uuout@dscmail.com>
Rendered body type: text/plain

Hi Bob:

Yes we will be using APRS in the WAR room in our county EOC on October 24. The NEC will be there for the nuke end of the drill. Will have APRS on one 27 inch TV and ATV on the other monitor. I think it will open their eyes....

Chesapeake Region Sales *
Ph:(410) 987- 8777 *
Fax: (410) 987-4489 *
E-mail bob.baltz@ustc.vlsi.com *

436. Subscribe/Unsubscribe Problems

From: Jess Girard <girard@panix.com>
Date: Fri, 29 Sep 1995 10:22:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950929101900.22100B-100000@panix.com>
Rendered body type: text/plain

Hi All:

Here's the file I send to anyone with subscribe/unsubscribe problems. It's simple, except to those who don't know how to do it.

To subscribe to the APRS Sig (aprssig):

Send an email message to listserv@tapr.org, TAPR's robot mail distributor:

The single line of text: subscribe aprssig

That's all! The listserver robot will send to your email address all email messages addressed to `aprssig@tapr.org`.

*~**~***~****~*****~******~*****~****~***~**~*~
To un-subscribe to the APRS Sig ([aprssig](#)):

Send an email message to listserv@tapr.org

The single line of text: signoff aprssig

*==**==***==****==*****==******==*****==****==***==**==*

Caveats:

When you subscribe, you'll receive an email from the listserver explaining some extra options you may use. Don't delete that file!

No one else can subscribe or un-subscribe you. The sender's email address is used by the robot to turn on or turn off the forwarding to you.

73
Jess Girard ND1L

```

*****
Internet:  email text      girardj@delphi.com  (note the "j")
           text or data    girard@panix.com   or   girard@netcom.com
           anonymous ftp    ftp.netcom.com     (/pub/gi/girard/jess)
*****

```

437. Logging question...

From: jan@archimedes.vislabs.navy.mil (Jan A. Barglowski)
Date: Fri, 29 Sep 1995 07:36:52 -0700
To: aprssig@tapr.org
Message-ID: <v01520d01ac9152bdfa19@[129.131.31.10]>
Rendered body type: text/plain

This is driving me nuts, as I'm testing a WIDE digi and a mobile at the same time, too :-)

I can't seem to log any of the track history from my mobile. I clear the screen, go drive around for awhile, then when I return the screen shows where I've been. I then do a FILE-SAVE, and note the HST file, too. But when I go to replay, either the BK or the HST file, the route is not retraced! From the docs I gather that the BK file saves the "who" and the HST saves the "where".

Another possible related thing is the Control-Logs command. I couldn't find anything in the docs regarding this. When I did this I noticed that the "log" in the control bar across the bottom of the screen was lower-case, and the invocation of the C-L command turned it to uppercase. Is this a logging enable/disable switch? I didn't have the time to try the drive again after turning it uppercase...

I also had my station setup as a WIDE, if that matters.

Thanks for any help!

73, jan
kc6uth

Jan Anthony Barglowski
Computer Graphics Dude
VisLab, China Lake

Phone: (619) 927-1057
Internet: jan@vislab.navy.mil
Packet: KC6UTH@WA6YBN.#SOCA.CA.US.NA

438. TNC setup

From: CCVFS.DRAWING@capital.ge.com
Date: Fri, 29 Sep 1995 13:35:32 -0400
To: "aprssig(a)tapr.org" <aprssig@tapr.org>
Message-ID: <0013800001195135000002*@MHS>
Rendered body type: text/plain

Can anyone tell me, is there a way to change the initial set up strings (echo n, heardln n, etc.) that is sent to the tnc in MacAPRS? (Not running 2.0 yet and if this has changed please let me know) I do know how to add additional commands but not change the defaults.

The reason I ask is that my tnc (Tiny 2) does not recognize all the commands that are 'hard coded'. What I need to do sometimes is to reinitialize the tnc once or twice via the program. This is not a major problem but can be annoying sometimes.

While I'm asking questions, is the window to directly address the tnc going to be reactivated in future versions? This is a feature that I have used many times in the IBM version. For instance my PBB5 sysop forwards my mail directly to my mailbox. To view it I need to quit MacAPRS read it via my regular terminal program then rerun MacAPRS. If it's not going to be active soon, does anyone know how I can reassign the serial port back and forth between programs? This would also solve the problem.

Thanks,
Dana - N10FZ@W1CDM.CA
ccvfs.drawing@capital.ge.com

439. Grayslake

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Fri, 29 Sep 1995 12:41:17 -0500
To: aprssig@tapr.org
Message-ID: <9509291741.AA06587@omnifest.uwm.edu>
Rendered body type: text/plain

Ed,

What a FANTASTIC program! If I could have seen the projected screen it would have been even better.

Dave Barrow, N9UNR
FC-WI (WAR)
n9unr@execpc.com

440. Re: [APRSSIG:3564] Baycom with APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 29 Sep 1995 14:21:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950929142116.9639B-100000@greatlakes>
Rendered body type: text/plain

ANS: NO

On Thu, 28 Sep 1995, Earl Boatman wrote:

> Is there any way to use a baycom modom with APRS.
>
> Thanks Earl Boatman KB0NRK
>
>

441. Re: [APRSSIG:3574] TNC setup

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 29 Sep 95 14:30:04 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.812399404.ksproul@hardees.rutgers.edu>

>

If you have a valid registration number (i.e. paid the share-ware fee) you get the ability to save all of this stuff...

>

Yes, this feature will be done sometime.. I basically go on the number of requests for stuff, and this has been somewhat low on the request list until recently, when it resurfaced..

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-nr.rutgers.edu/~ksproul/	908 821-4828 Home

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 29 Sep 1995 13:36:32 -0500 (CDT)
To: aprsig@tapr.org
Message-ID: <199509291836.NAA19714@solar.cs.tamu.edu>
Rendered body type: text/plain

Also: Make sure RTS/CTS (Pins 7 & 8 on the DB9 connector) are tied together.
Have LFIgnore off on the tracker.

73, gerry

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 29 Sep 1995 15:28:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950929152203.9639I-100000@greatlakes>
Rendered body type: text/plain

```
> I can't seem to log any of the track history from my mobile. I clear the
> screen, go drive around for awhile, then when I return the screen shows
> where I've been. I then do a FILE-SAVE, and note the HST file, too. But
```

APR REPLY: When in UCASE, a file will AUTOMATICALLY be saved when 200 HST points have been accumulated. BUT it does NOT automatically save on QUITTING APRS unless you give a name for the BACKUP file OTHER THAN BACKUP.

APRS WARNING: If you are running an AEA TNC, then IT DOES NOT monitor

packes that it digipeats! Crazy if you ask me, but thats the way they set it up. There is a command for turning MONITORING of your own DIGIPEATS on, maybe it is MRPT on?

FINALLY, on a MOBILE APRS PC, there is a difference between each plot on the mobile map, and each time the position is transmitted. The ALT-SETUP-POSRATE command allows you to set both rates...

Good luck. Let us know what you find out..

444. Re: [APRSSIG:3578] Re: GPS45 and Tiny-2

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 29 Sep 1995 15:31:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950929152959.9639J-100000@greatlakes>
Rendered body type: text/plain

On Fri, 29 Sep 1995, Gerald J Creager wrote:

> Regarding use of a GPS45 with a Tiny2... Make sure your GPSTEXT parameter is
> set and Make sure RTS/CTS (Pins 7 & 8 on the DB9 connector) are jumpered
> Have LFIgnore off on the tracker. >

APR REPLY: Dont you mean LFIgnore ON...

445. KANTRONICS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 29 Sep 1995 15:35:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950929153216.9639K-100000@greatlakes>
Rendered body type: text/plain

Since Kantronics TNC's use the BEACON EVERY X where X is in MINUTES and all other TNC's assume X is in 10's of seconds, the KANTRONICS user has to enter 20 every time he QUITs APRS if he wants his beacon to go out every 20 minutes instead of the default 120 That APRS uses.

A better way, is to simply enter the command in your APRS\SYSTEM\RESTORE.TNC file as follows:

BEACON EVERY 20

If you have a KAM, then APRS does this, since it knows you are using a KAM... But for other KANTRONICS TNC's, this is advisable..

446. GPS-45 & Handi Packet

From: JAgrelo@aol.com
Date: Fri, 29 Sep 1995 15:57:02 -0400
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <950929155701_32651618@mail06.mail.aol.com>
Rendered body type: text/plain

Success !!! I finally got my Paccomm HSP switcher to work with my GPS-45. All I had to do is open up the HSP jacket expose the circuit board and solder a resistor from pin 7 of the DB-9 connector to the center pin (collector) of the SOT-23 transistor marked TR4.

Why did I have to do this you ask, well all GPS's are not created equal, it seems that the voltage levels on the GPS data line vary, the GPS-45 wasn't providing enough voltage for the transistor to switch when APRS would do it's NMEA request. Also in line are two 1N914 diodes dropping the voltage down about 1.4 volts to boot. I didn't remove the diodes because they do serve a purpose, so the beefier voltage from pin 7 did nicely.

Oh yeah don't forget to set your TNC to 4800 baud (terminal), duuuhhh, I did.

PS- Bob I didn't need that pin swap adapter. Thanks for all the help.

Happy APRSin
73 Joe de N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com

Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products

Experts in Microchip and Motorola processors

447. Re: [APRSSIG:3569] Re: Unsubscribing help RE: Signoff

From: n2czf@gate.net
Date: Fri, 29 Sep 1995 19:23:38 -0400
To: aprssig@tapr.org
Message-ID: <199509292323.TAA54544@tequesta.gate.net>
Rendered body type: text/plain

Yep, I got that command and it has not worked, even if it did I am guessing that it would sign me off PERIOD! I want to make sure that I am signed off from one internet address and not the other, this was also Warren's main concern.

73's Rich
n2czf@gate.net

448. Re: [APRSSIG:3462] Re: DELORME MAPS!

From: emblidge@ns.moran.com (Daniel R. Emblidge)
Date: Fri, 29 Sep 1995 23:59:28 -0400
To: aprssig@tapr.org
Message-ID: <199509300359.XAA28177@ns.moran.com>
Rendered body type: text/plain

The price is \$79.00. It's been very busy at work and I have not really played with it yet. I was hoping someone out here would tell me about it.

>On Sun, 24 Sep 1995 16:06:07 -0500, you wrote:
>
>>Are there any comments on Microsoft Automap Streets? (Windows 95) Just got it and am very impressed with it.
>>It is a 2 CD set. I am just starting out on this APRS, GPS, Maps, etc etc. Is there some form of integration
>>with all this stuff now or down the road I can look forward to?
>>-----
>
>PLS tell me more about Automap for Win 95 (ie. price, features, etc)
>Will it take GPS inputs?
>
>Thanks in advance.
>
>Sam Roe
>kb7qqq@nwlk.com
>Tactical Area Communications
>A Member of Pierce County Search & Rescue
>
>
>

449. [APRSSIG:3581] KANTRONICS

From: jeff.brenton@espi.com
Date: Sat, 30 Sep 95 00:12:47 -0500
To: aprssig@tapr.org
Message-ID: <9509300012.00ARZ04@espi.com>
Rendered body type: text/plain

Bob recommends putting "B E 20" in the RESTORE.TNC file for non-KAM Kantronics TNCs... Heck, I've just been telling APRS that the KPC-3 *is* a KAM, and I just get a few extra prompts here and there...

450. Re: [APRSSIG:3530] 100K USGS Maps

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sat, 30 Sep 1995 12:57:22 -0400 (EDT)
To: David Kaplan <DKAPLAN@netins.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9509301219.A13464-a100000@acme>
Rendered body type: text/plain

On Wed, 27 Sep 1995, David Kaplan wrote:

> >First of all, Bill let me complement you on an excellent set of STREET
> >level maps of Huntsville and Gadsden Alabama! Ralph Fowler was
> >passing through and showed me a few... Congratulations on figuring

> >out how to do the USGS mapmaking at 100K!
> ^^^
>
> Can someone share with the rest of the group how to do this PLEASE????
>
I am slowly working on a "How To" on using the 100K CD-ROMS, doing a
step by step by painfully slow step. Up to page 3, and still have a lot
more to go. I hope to have it done by the middle of November, by then, the
program will have chaged and we'll have to start all over again....

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 157th most knowledgeable person about A.P.R.S. and slipping fast

451. Re: [APRSSIG:3551] Re: Gates and GATE Equipment

From: mwalker@interlog.com (Mike Walker)
Date: Sat, 30 Sep 95 16:45:28 EDT
To: aprssig@tapr.org
Message-ID: <199509302045.QAA27175@gold.interlog.com>
Rendered body type: text/plain

On Thu, 28 Sep 1995 08:44:33 -0500 you wrote:

>> Date: Wed, 27 Sep 1995 17:37:49 -0500
>> Reply-to: aprssig@tapr.org
>> From: n2czf@gate.net
>> To: aprssig@tapr.org
>> Subject: [APRSSIG:3536] Re: Gates and GATE Equipment
>
>> I do not want to start another argument here (we have enough right now!) but
>> just my PERSONAL two cents worth....
>
>> Back to results, the PK-900 right next to a KAM+ will pull signals out of the
>> band that the KAM+ cannot. Same rig, same antenna, same everything the only
>> difference is the seconds it takes me to switch the cable and re-adjust the
>> audio for the two units. Some day I will try to set up a Y connector with the
>> correct padding so both can be driven at the same time and have 2 PC's running
>> to see which one prints out more packets.
>(snip)
>> 73's Rich N2CZF
>> n2czf@gate.net
>>
>>
>And if you compare the weight of the manuals, the PK-900 is 7x as
>good as a KAM+! 8^)
>
>Seriously, most of the novice users that have gotten KAM's around
>here are completely in the dark 'cause the documentation is so awful.
>
>
Kantronics TNC's focus on the user acquiring software written to
support their host mode. This allows the Kam to achieve most of it's
flexibility. With AEA, the modem pairs are designed by their
engineers. This is why I am replacing my DSP-2232 with a Kam Plus and
a Timewave DSP-59. I get better front end filtering and all the
flexibility I need.

Another 2 cents worth..

cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

452. APRS73c

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 30 Sep 1995 17:29:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950930171828.15313A-100000@greatlakes>
Rendered body type: text/plain

Its posted on ARN BBS 410-280-2503. I cannot seem to get my FTP server
to accept my Kermit or Zmodem uploads anymore... So if someone gets it
off the BBS and posts it on TAPR, thanks,. Remember, 73b was just a BETA,

this is about the same thing, but with these additions:

- * OPS-DIGI-ALTPATH allows you to have an occasional ALT-PATH for your routine beacons. You may set a percentage.
- * All BEEPS are suppressed in F-10 DOZ mode to aid in background ops
- * CHANGED DEFAULT BAUDRATE from 9600 to 4800 since all GPS guys are running at the NMEA standard of 4800. WATCH OUT FOR THIS WHEN U UPGRADE!
- * Houses are SMALLER
- * New BULLETINS now continue to decay. Meaning, that after 2 hours, they are pretty scarce. There is a way to make bulletins last at the 20 min rate though, for the occasional LONG LASTING bulletin...
- * CONFIG now saves DR, JUNK, DUAL, and GATEfilter...
- * No other changes to DOZ mode, because no feedback indicated it had any value.

See the NEWNOTES.txt for details....

Good Luck. You may be able to re-use your GCONFIG file if you add X,0,-1,0,0,0 as the last entry before the DIGI PATHS and rename it to CFG73C.APR..... The digipaths begin with the * * * if you dont have any already saved...
Good luck...

453. Re: [APRSSIG:3586] Re: 100K USGS Maps

From: "L. J. Shepherd" <ljs@west.net>
Date: Sat, 30 Sep 1995 15:08:47 -0700
To: aprssig@tapr.org
Message-ID: <199509302210.PAA27206@acme.sb.west.net>
Rendered body type: text/plain

Hello Group: Are the 100k USGS maps (that have been recently described as being applied to APRS) topomaps or street/highway maps ? Thanks, Jim K6OYY

At 12:19 PM 9/30/95 -0500, you wrote:

>On Wed, 27 Sep 1995, David Kaplan wrote:

>

>> >First of all, Bill let me complement you on an excellent set of STREET

>> >level maps of Huntsville and Gadsden Alabama! Ralph Fowler was

>> >passing through and showed me a few... Congratulations on figuring

>> >out how to do the USGS mapmaking at 100K!

>> ^^^

>>

>> Can someone share with the rest of the group how to do this PLEASE???

>>

> I am slowly working on a "How To" on using the 100K CD-ROMS, doing a
>step by step by painfully slow step. Up to page 3, and still have a lot
>more to go. I hope to have it done by the middle of November, by then, the
>program will have chaged and we'll have to start all over again....

>

>

>

>

>The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249

>Cruise Missile Address: 39 56.35 N 082 58.89 W

>The 157th most knowledgeable person about A.P.R.S. and slipping fast

>

>

>

>

October 1995

Original source file: aprssig.9510

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1995-10/TAPR-APRS_1995-10.txt

1. Re: [APRSSIG:3586] Re: 100K USGS Maps

From: rwf <rwf@mindspring.com>
Date: Sun, 1 Oct 1995 01:01:46 -0400
To: aprssig@tapr.org
Message-ID: <199510010501.BAA00537@dylan.mindspring.com>
Rendered body type: text/plain

At 12:13 PM 9/30/95 -0500, The 157th most knowledgeable person about A.P.R.S wrote:

> I am slowly working on a "How To" on using the 100K CD-ROMS, doing a
>step by step by painfully slow step. Up to page 3, and still have a lot
>more to go. I hope to have it done by the middle of November, by then, the
>program will have chaged and we'll have to start all over again...
>

Bob- please cover how to get these files from the internet and what to do when the filenames are too long for the PC to handle and your ftp program won't allow you to change them before downloading them. ie: file extensions more than 3 chars.

And yes, Keith, et al mac, I am sure the mac can probably handle this with no problem, but I use a PC. :)

/Ralph

2. SIG posits

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 1 Oct 1995 09:32:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951001092609.16411B-100000@greatlakes>
Rendered body type: text/plain

Now that keith has a pretty full platter of things to do, is there someone out there that would volunteer to make us a BACKUP file of all stations on this SIG? I think this would be very valuable. If you wanted to check out activity in timbuktoo, you could just load this file, SEE where all SIG members are in that area, and then KNOW who to address in the Timbuktoo area...

All we need is the nearest degree/minute of location, no reason to bother with the hundreths. I believe most everyone sent their locations to Keith some time ago, but we need a volunteer to edit the data in to the BACKUP file format. DONT SEND POSITS now, until we get the volunteer.

3. Catalog for Garmin 45 Supplies Please

From: kauten@mindspring.com (James R. Kauten, M.D.)
Date: Sun, 01 Oct 1995 22:44:09 -0500
To: aprssig@tapr.org
Message-ID: <199510020244.WAA01957@dylan.mindspring.com>
Rendered body type: text/plain

I now have a Garmin 45 and need to order some accessories. The catalog from which I ordered the unit does not carry supplies. Please let me know of any mail order sources, or stores in the Atlanta, GA area. 73, Jim, K04RQ

=====

James R. Kauten, M.D., K04RQ

=====

Phone: (404) 355-9537 Fax: (404) 355-9515
Address: James R. Kauten, M.D., 95 Collier Road, Suite 2055, Atlanta, GA, 30305-1955

=====

Atlanta, Home of the 1996 Olympics!!!

=====

4. Where is the mailing list ??

From: n2czf@gate.net
Date: Sun, 1 Oct 1995 22:55:01 -0400
To: aprssig@tapr.org
Message-ID: <199510020255.WAA10857@tequesta.gate.net>

Rendered body type: text/plain

Sometime on Saturday night I stopped receiving APRS SIG mail, am I having problems with the robot or did the whole system crash ??

73's Rich N2CZF

Pse Reply direct in case I am the only one with the problem
n2czf@gate.net

5. Re: [APRSSIG:3454] Re: 7.3b bug

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 1 Oct 1995 23:42:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.950924194648.22987A-100000@greatlakes>
Rendered body type: text/plain

On Sun, 24 Sep 1995, Cap Pennell wrote:

> happens here too. As long as I'm writing: SSID of -2 used with gps tracker
> doesn't show a bus (I have to put {U} at the beginning of my BTEXT to show
> my bus). -2 alone shows a "dot" with a B inside. -9 does still show a

REPLY: Fixed in 73c.

> After I hit O,C,T to talk to the tnc, and then hit ESC to return APRS,
> I get a message about "can't disconnect-Link state is DISCONNECTED"

REPLY: Correct. APRS is checking to be sure your TNC is NOT connected...

6. MacAPRS on HF

From: sp35@cornell.edu (Steven Powell)
Date: Mon, 2 Oct 1995 09:54:31 +0000
To: aprssig@tapr.org
Message-ID: <v02120000ac955abdefe8@[128.84.224.158]>
Rendered body type: text/plain

I have some pretty basic questions regarding HF (10.151 MHz) operation using MacAPRS. This is the first time I have used packet on HF, and I have very limited regular VHF packet experience, so bare with me it these questions seem naive. I am located in a quiet section of upstate New York where there is no VHF APRS activity (yet), so all of my operations are limited to HF.

First, let me thank Bob and Keith for their efforts on both programs. I had no problems installing and running MacAPRS 2.0 on my ageing MacII . It was fun watching the US map fill up with stations, and hopefully I popped up on some other peoples maps. I have read (and re-read) Keith's MacAPRS documentation and Bob's documentation on operation, digis, and HF, yet here are the questions:

1. How do I tell MacAPRS that I am on HF versus VHF? Bob's "HF.txt" document says that the PC program has a HF configuration that changes the default alias from RELAY to ECHO. Is there a way to do this in MacAPRS?

2. How can I tell what stations I hear direct? Are all stations in the "Station List" window stations that I can hear directly? When I look at the "History" window is there a way to determine what stations I can hear directly?

3. Assuming that I can be heard directly by several others on HF, what is the correct routing to specify for routine HF operations, so that I appear on the maps of other HF stations? Is it simply to specify None, that is, no digipeating? Is digipeating really only relevant to VHF operations? If I have a weak HF signal what routing should I specify to maximize my HF range?

4. I have noted that several stations on HF were using the following routing: "W7LUS, gate, wide". Is this being used because they wish to digipeat through W7LUS who presumably has a better HF signal? Does the originating station desire to go through a HF to VHF gateway and then through a wide area VHF digipeater? Is this routing used with the intention of reaching APRS users only on VHF, or VHF and HF?

Steven Powell
sp35@cornell.edu
N2BU
607-255-6236 (FAX)

Space Plasma Physics Group
Cornell University

7. Re: [APRSSIG:3586] Re: 100K USGS Maps

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Mon, 2 Oct 1995 07:38:58 -0700
To: aprssig@tapr.org
Message-ID: <v01520d03ac9547f706a9@[129.131.31.10]>
Rendered body type: text/plain

John:

I've been working on making some 100k APRS maps of the Ridgecrest, CA (yea, we've had some earthquakes lately :-) area. I'm using MAPFIX15.EXE to make the maps from files converted by the CONV100C program.

On one chunk of the map, I create the map within MAPFIX15, remove all the single point features (the "C" command doesn't do anything :-() , then I run it thru the DEFRAGB program. But one file causes the DEFRAGB program to crash in one of two ways: It can't find the SCRATCH1.TMP file to copy; or it gets an "END OF INPUT FILE" error. Have you had these problems, and do you know what causes them?

Good luck on your "howto to APRS maps" paper. I'll be willing to proof it for you if you'd like...

73, jan
kc6uth

Jan Anthony Barglowski	Phone: (619) 927-1057
Computer Graphics Dude	Internet: jan@vislab.navy.mil
VisLab, China Lake	Packet: KC6UTH@WA6YBN.#50CA.CA.US.NA

8. Re: [APRSSIG:3579] Re: Logging question...

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Mon, 2 Oct 1995 07:47:35 -0700
To: aprssig@tapr.org
Message-ID: <v01520d04ac95499d69e6@[129.131.31.10]>
Rendered body type: text/plain

>On Fri, 29 Sep 1995, Jan A. Barglowski wrote:
>
>> I can't seem to log any of the track history from my mobile. I clear the
>> screen, go drive around for awhile, then when I return the screen shows
>> where I've been. I then do a FILE-SAVE, and note the HST file, too. But
>
>APR REPLY: That should do it...
>
>
>> I also had my station setup as a WIDE, if that matters.
>
>APRS WARNING: If you are running an AEA TNC, then IT DOES NOT monitor
>packets that it digipeats! Crazy if you ask me, but thats the way they
>set it up. There is a command for turning MONITORING of your own
>DIGIPEATS on, maybe it is MRPT on?
>
>Good luck. Let us know what you find out..

Well, I'm using an AEA PCB-88, and researching the manual tells me the MDIGI command is the one which allows you to monitor your digipeated packets. I checked, and it was set on (allowing to monitor). But when I set the home station's alias back to RELAY, I was able to save the track history file. I will attempt to duplicate this in the next few days. BTW, the mobile is unproto to APRS via WIDE.

73, jan
kc6uth

9. Re: [APRSSIG:3591] SIG posits

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Mon, 2 Oct 1995 09:07:13 -0700
To: aprssig@tapr.org
Cc: bruninga@nadm.navy.mil, ksproul@hardees.rutgers.edu
Message-ID: <v01520d05ac955d240051@[129.131.31.10]>
Rendered body type: text/plain

>Now that keith has a pretty full platter of things to do, is there
>someone out there that would volunteer to make us a BACKUP file of all

>stations on this SIG? I think this would be very valuable. If you
OK, I'll take the job. PLEASE don't send me anything yet! I need to get
this all setup at my off-job account, not this one.

73. jan
kc6uth

10. Re: [APRSSIG:3591] SIG posits

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 2 Oct 95 12:20:54 EDT
To: jan@archimedes.vislabs.navy.mil (Jan A. Barglowski)
Cc: aprssig@tapr.org, bruninga@nadm.navy.mil
Message-ID: <CMM-RU.1.4.812650854.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

I can send Jan the full file of stuff I already have.. However, it would
probably be easier for me to grab a student (from the ham club) here and have
them do it.. Either case, it had been put on hold from going to the DCC, and
has not been done yet.. I will either

A: Get it done this week,

or

B: turn it over to Jan.

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

11. Re: [APRSSIG:3593] Where is the mailing list ??

From: debell@heartland.bradley.edu (Darrell Bell)
Date: Mon, 2 Oct 95 11:27:47 CDT
To: aprssig@tapr.org
Message-ID: <9510021627.AA18442@heartland.bradley.edu>
Rendered body type: text/plain

mail died Saturday and started again Monday late morning.
Perhaps others had it straight through. -0- at 6 a.m. monday 10/2

12. RE: [APRSSIG:3591] SIG posits

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Mon, 2 Oct 1995 11:56:41 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <951002115641.20407e99@exame2.dseg.ti.com>
Rendered body type: text/plain

I sent the enclosed message to Bob earlier this morning. I guess I should
have gone though the SIG to keep everyone informed. If there are several of
us who are willing to work on this maybe we could collaborate - or maybe
just pick one. Whatever works best!

Regards, Claude
K5DTN
chead@exame2.dseg.ti.com

=====

From: EXAME2::CHEAD "Claude 995-5040 pager 4541"
2-OCT-1995 11:17:13.51

To: SMTP%"bruninga@nadm.navy.mil"

CC: CHEAD

Subj: SIG Posits

Bob: re your request for someone to manage the SIG Posits database and
BACKUP file. I'll be happy to take a crack at it. I manage a number of
databases here in Dallas now, both for my company, TI, and for the Dallas
RACES organization. I've got a good set of various utilities and think I
could probably handle this without too much trouble. Don't know off hand the
format of the BACKUP file - maybe it is in the APRS documentation, but it is
at home and I'm at work now.

If you could either tell me the format of the file you need, or point me in
the right direction to find it, and tell me how to find the existing Posits
data, I'll have a try at it. Let me know if you want me to go with this.

Thanks Claude Head
K5DTN
13316 Spring Grove
Dallas, TX 75240
(214) 386-8966 home
(214) 995-5040 office
(214) 995-2231 fax
chead@exam2.dseg.ti.com

13. SIGNOFF PLEASE

From: krogers@nosc.mil (Kenneth E. Rogers)
Date: Mon, 2 Oct 95 10:46:20 PDT
To: aprssig@tapr.org
Cc: krogers@nosc.mil
Message-ID: <9510021746.AA28497@marlin.nosc.mil>
Rendered body type: text/plain

I would appreciate someone's deleting me from the SIG list. The automatic SIGNOFF isn't working. I am going on a long trip and need to stop these messages temporarily so they don't overload my mailbox. Thanks.

Ken Rogers
KJ6FN

14. Re: [APRSSIG:3592] Catalog for Garmin 45 Supplies Please

From: JAgrelo@aol.com
Date: Mon, 2 Oct 1995 14:24:35 -0400
To: aprssig@tapr.org
Message-ID: <951002142430_114441047@emout04.mail.aol.com>
Rendered body type: text/plain

James, I found that E&B out of NJ had the best prices for the Garmin GPS-45 1(800)533-5007. I paid \$349.00 for mine and it included the mounting bracket and data/power cable. See APRS/README/GPS.TXT for more sources.

I hope this helps

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com

Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products

Experts in Microchip and Motorola processors

15. Re: [APRSSIG:3595] MacAPRS on HF

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 2 Oct 95 14:39:40 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.812659180.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

> 1. How do I tell MacAPRS that I am on HF versus VHF? Bob's "HF.txt"
> document says that the PC program has a HF configuration that changes the
> default alias from RELAY to ECHO. Is there a way to do this in MacAPRS?

The two programs are NOT at all the same, as far as configuration etc goes. If you are on HF and WANT to be different the MAIN thing to do is to make sure your position report rate is SLOW. But MacAPRS defaults to quite slow anyway, so this isn't problem. If you want your PATH different, set it different..

> 2. How can I tell what stations I hear direct? Are all stations in the
> "Station List" window stations that I can hear directly? When I look at
> the "History" window is there a way to determine what stations I can hear
> directly?

When you look in the HISTORY windows, you can tell how that packet was

heard by which item has the ASTERISK on it..

```
WU2Z*>GATE>WIDE>APRSM:....      was heard direct
WU2Z>GATE>WIDE*>APRSM:....      was heard from the WIDE
```

And in some cases, you will see one packet, then the other, i.e.

```
WU2Z*>WIDE>WIDE>APRSM:....
WU2Z>WIDE*>WIDE>APRSM:...
WU2Z>WIDE>WIDE*>APRSM:....
```

>From this you can tell that you are hearing TWO DIFFERENT wides, and the station directly...

I have considered creating a display of some-sorts showing this type of stuff, but had not put a lot of thought into it, and also do not know how useful it would be..

> 3. Assuming that I can be heard directly by several others on HF, what is
> the correct routing to specify for routine HF operations, so that I appear
> on the maps of other HF stations? Is it simply to specify None, that is,
> no digipeating? Is digipeating really only relevant to VHF operations? If
> I have a weak HF signal what routing should I specify to maximize my HF
> range?

If you are on a channel (HF or VHF, doesn't matter) and ONLY want to be heard DIRECT, set the PATH to NONE... Then you will not be repeated anyplace..

> 4. I have noted that several stations on HF were using the following
> routing: "W7LUS, gate, wide". Is this being used because they wish to
> digipeat through W7LUS who presumably has a better HF signal? Does the
> originating station desire to go through a HF to VHF gateway and then
> through a wide area VHF digipeater? Is this routing used with the
> intention of reaching APRS users only on VHF, or VHF and HF?

W7LUS has a GREAT HF signal, and can be heard by lots of us..

If you have a GOOD gateway or wide and want to use it SPECIFICALLY, specify it by CALL SIGN, not by ALIAS (wide and gate are aliases)

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

16. Re: No Activity - SoCal

From: Zonker@eworld.com
Date: Mon, 2 Oct 1995 11:48:20 -0700
To: aprssig@tapr.org
Message-ID: <951002114801_15827085@hp1.online.apple.com>
Rendered body type: text/plain

Strangely enough, we in Northern California use the 145.010 frequency for APRS. (Yes, different band plans for North and South in the Golden State... :-)

Just out of curiosity, I'll try listening on a number of the other packet channels, and see what I can see. Since folks can add the Lat/Lon data to almost any device (high-level digi, PBBS, etc.), maybe I'll find a bunch of stuff there. (Then again, probably not, since most of the APRS is restricted to 5.01, I doubt many folks on other frequencies have cared.)

Just my two cents...it's not just on 4.79 *everywhere*, so folks may want to look around on other frequencies, just for fun.

regards,

David K. Z. Harris

PBBS: N6UOW @ N6QMY

17. (no subject)

From: l131764@cliffy.lfwc.lockheed.com (Skaff ML)
Date: Mon, 2 Oct 1995 15:08:44 -0500
Message-ID: <9510022008.AA27066@cliffy.lfwc.lockheed.com>
Rendered body type: text/plain

Dear Sir,

Will you please remove me from the SIG mailing list?
I am unable to do it myself because my e-mail address changed.

unsubscribe skaffml@cliffy.lfwc.lockheed.com

Thanks,
Mike.

18. [APRSSIG:3592] CATALOG FOR GAR

From: phil.finkle@sid.net
Date: Mon, 02 Oct 95 16:36:43 -0400
To: aprssig@tapr.org
Message-ID: <9510021636.0NC4000@sid.net>
Rendered body type: text/plain

Doctor:

If u get a response pse let me know. By the way, do u have the phone no. or address of Mudhole in NJ. I ordered a GPS45 frm them and the may hve accessories. If u have Mudhole's info, please pass it on as I'd like to check on the status of my order.

Tnx de Phil K6EID

Phil.Finkle@sid.net

19. Re: [APRSSIG:3604] Re: MacAPRS on HF

From: sp35@cornell.edu (Steven Powell)
Date: Mon, 2 Oct 1995 16:44:17 +0000
To: aprssig@tapr.org
Message-ID: <v02120003ac95c107f2c5@[128.84.224.158]>
Rendered body type: text/plain

Thanks, Keith for answering my questions. Here are some followups:

>The two programs are NOT at all the same, as far as configuration etc goes.
>If you are on HF and WANT to be different the MAIN thing to do is to
>make sure your position report rate is SLOW. But MacAPRS defaults to quite
>slow anyway, so this isn't problem. If you want your PATH different, set it
>different..

1. Yes, I understand that I have full control over the PATH, but does this mean that MacAPRS always uses an alias of RELAY?

2. How can I tell while operating HF which stations are using the aliases WIDE or GATE?

Steven Powell
sp35@cornell.edu
N2BU
607-255-6236 (FAX)
607-255-4551 (Phone)

Space Plasma Physics Group
Cornell University

20. [APRSSIG:3603] RE: CATALOG FOR

From: phil.finkle@sid.net
Date: Mon, 02 Oct 95 16:47:21 -0400
To: aprssig@tapr.org
Message-ID: <9510021647.0NL3H00@sid.net>
Rendered body type: text/plain

Joe

Hw do we access the APRS/README/GPS.TXT? I assume it must be on an http site.

Tnx de Phil K6EID

Phil.Finkle@sid.net

21. MUDHOLE INFO?

From: phil.finkle@sid.net
Date: Mon, 02 Oct 95 16:59:18 -0400
To: aprssig@tapr.org
Message-ID: <9510021659.0NV6700@sid.net>
Rendered body type: text/plain

Someone was kind enough to pass on Mudhole's phone number. I misplaced same. If anyone has the number or the QTH in NJ, pse advise.
Tnx.

Phil.Finkle@sid.net

K6EID

22. Re: No Activity - SoCal

From: CCVFS.DRAWDING@capital.ge.com
Date: Mon, 2 Oct 1995 17:12:24 -0400
To: "aprssig(a)tapr.org" <aprssig@tapr.org>
Message-ID: <0013800001199288000002*@MHS>
Rendered body type: text/plain

I am located north of San Diego just below Camp Pendleton in Southern Calif. As far as my maps show I am the northern most VHF station on the air San Diego area.

Is there anyone in the southern L.A. area that would like to try to link these regions? Is there any interest in linking them together?

I have another complete station (including a small beam) that could be dedicated to the north. The only thing I don't have is a dual port tnc. Is it possible to somehow link a KPC3 and a Tiny 2 via hardware or software? I haven't looked into this yet as I just had this idea and I'm at work and don't have my MacAPRS manual with me.

If there are any interested parties please send me a message at:
ccvfs.drawing@capital.ge.com or N10FZ@W1CDM.#SOCAL.CA.USA.NA

Dana

Reply Separator

Subject: [APRSSIG:3605] Re: No Activity - SoCal
Author: aprssig (INTERNET.APRSsig) at SOFTSWITCH
Date: 10/2/95 3:26 PM

Strangely enough, we in Northern California use the 145.010 frequency for APRS. (Yes, different band plans for North and South in the Golden State... :-)

Just out of curiosity, I'll try listening on a number of the other packet channels, and see what I can see. Since folks can add the Lat/Lon data to almost any device (high-level digi, PBBS, etc.), maybe I'll find a bunch of stuff there. (Then again, probably not, since most of the APRS is restricted to 5.01, I doubt many folks on other frequencies have cared.)

Just my two cents...it's not just on 4.79 *everywhere*, so folks may want to look around on other frequencies, just for fun.

regards,

David K. Z. Harris

PBBS: N6UOW @ N6QMY

23. Re: [APRSSIG:3592] Catalog for Garmin 45 Supplies Please

From: Michael Walker <mwalker@gold.interlog.com>
Date: Mon, 2 Oct 1995 17:15:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9510021725.A9857-0100000@gold.interlog.com>
Rendered body type: text/plain

Hi James,
I went to E and B boating when I was in Atlanta a couple of weeks ago.

Give 1-800-Boating a call and ask for the Atlanta Address, or check the phone book. Make sure you call before going there. Although we could see it from the interstate, it took us 30min to get there.

cheers...mike

Michael Walker
mwalker@interlog.com
VA3MW

On Mon, 2 Oct 1995 kauten@mindspring.com wrote:

> I now have a Garmin 45 and need to order some accessories. The catalog from
> which I ordered the unit does not carry supplies. Please let me know of any
> mail order sources, or stores in the Atlanta, GA area. 73, Jim, K04RQ
> =====
> James R. Kauten, M.D., K04RQ
> =====
> Phone: (404) 355-9537 Fax: (404) 355-9515
> Address: James R. Kauten, M.D., 95 Collier Road, Suite 2055, Atlanta,
> GA, 30305-1955
> =====
> Atlanta, Home of the 1996 Olympics!!!
> =====
>
>
>

24. New User Help

From: berlyn@epix.net (Bernie Andreoli)
Date: Mon, 2 Oct 95 17:34:05 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.951002175236.berlyn@epix.net>
Rendered body type: text/plain

Hi...

A friend and I have been trying since Friday evening to get our APRS programs and stations working properly. We are at the point where I receive his beacon which comparing it to the format in the docs looks correct. But I do not get a display of the station on my map. Also, from his position he can hear many other stations from New Jersey but does not get a display on his screen. We have tried various combinations of RELAY, WIDE, WIDE,WIDE, WIDE,RELAY, SPK,WIDE, SPK,WX3A, SPK,RELAY AND WM3L (SPK being a local packet digi in the area), and have had no luck with any. Also there is nothing in the Heard, Latest or All Beacons lists at either station.

My friend Ray, WX3A is using an AEA-232 TNC, and I have a PacComm TNC-220. BTW...as far as we can tell, we are the first and only operators trying this in our area...we hope to get more!

Hopefully, this is a start on the resolution of our problem but being so new at it, I'm not sure exactly what questions to ask or what info may be needed for a complete solution. If you can help us, and need more info please e-mail me.

Thank You.....Bernie, WM3L berlyn@epix.net

25. Re: [APRSSIG:3592] Catalog for Garmin 45 Supplies Please

From: wa2fxb@ix.netcom.com (Sid Lieberman)
Date: Mon, 2 Oct 1995 16:46:00 -0700
To: aprssig@tapr.org
Message-ID: <199510022346.QAA11941@ix8.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>I now have a Garmin 45 and need to order some accessories. The
catalog from
>which I ordered the unit does not carry supplies. Please let me know
of any
>mail order sources, or stores in the Atlanta, GA area. 73, Jim, K04RQ
>=====

=====

>James R. Kauten, M.D., K04RQ
>=====

=====

>Phone: (404) 355-9537 Fax: (404) 355-9515

>

28. Re: [APRSSIG:3588] APRS73c

From: rwf <rwf@mindspring.com>
Date: Mon, 2 Oct 1995 20:34:38 -0400
To: aprssig@tapr.org
Message-ID: <199510030034.UAA28440@dylan.mindspring.com>
Rendered body type: text/plain

I have posted it on the TAPR FTP site as well as my own Atlanta Site.
Also posted is SEMAPS07.ZIP, which Bob says have "no real changes"

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info
Another ATV and GPS Balloon Flight coming up soon from Atlanta, GA

At 04:34 PM 9/30/95 -0500, Dr. APRS wrote:

>Its posted on ARN BBS 410-280-2503. I cannot seem to get my FTP server
>to accept my Kermit or Zmodem uploads anymore... So if someone gets it
>off the BBS and posts it on TAPR, thanks,. Remember, 73b was just a BETA,
>this is about the same thing, but with these additions:
>* OPS-DIGI-ALTPATH allows you to have an occassional ALT-PATH for your
> routine beacons. You may set a percentage.
>* All BEEPS are suppressed in F-10 D0Z mode to aid in background ops
>* CHANGED DEFAULT BAUDRATE from 9600 to 4800 since all GPS guys are
> running at the NMEA standard of 4800. WATCH OUT FOR THIS WHEN U UPGRADE!
>* Houses are SMALLER
>* New BULLETINS now continue to decay. Meaning, that after 2 hours, they
> are pretty scarce. There is a way to make bulletins last at the 20 min
> rate though, for the occassional LONG LASTING bulletin...
>* CONFIG now saves DR, JUNK, DUAL, and GATEfilter...
>* No other changes to D0Z mode, because no feedback indicated it had any
> value.
>
>See the NEWNOTES.txt for details....
>Good Luck. You may be able to re-use your GCONFIG file if you add
>X,0,-1,0,0,0 as the last entry before the DIGI PATHS and rename it to
>CFG73C.APR.... The digipaths begin with the * * * if you dont have any
>already saved...
>Good luck...
>

29. Re: [APRSSIG:3609] RE: CATALOG FOR

From: JAgrelo@aol.com
Date: Mon, 2 Oct 1995 20:57:13 -0400
To: aprssig@tapr.org
Message-ID: <951002202155_2333905@mail06.mail.aol.com>
Rendered body type: text/plain

Phil, Don't you have the APRS program yet, the GPS.TXT file is in the APRS
program directory under the README sub-directory.

Better yet, in case you don't have the program, here it is attached to this
peace of mail for you, just open it.

Hope this really helps.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com

Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products

Experts in Microchip and Motorola processors

[Attachment: GPS.TXT; text/plain; 43,547 bytes]

30. Help in Austin TX?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 2 Oct 1995 23:31:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951002232616.4070A-100000@greatlakes>
Rendered body type: text/plain

Got a letter tonight from W5SYT in Austin TX who has a GPS and APRS. He says they have an active WX network (not APRS) even including terminals at the local TV station. But there is NO APRS activity in Austin. He was looking for anyone that could help him get their attention and start a network.

It will be nice when we get the SIG map finished so we can see who is near Austin on this SIG...

31. Re: [APRSSIG:3611] Re: No Activity - SoCal

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 2 Oct 1995 23:46:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951002234319.4070F-100000@greatlakes>
Rendered body type: text/plain

On Mon, 2 Oct 1995 CCVFS.DRAWDING@capital.ge.com wrote:

> Is there anyone in the southern L.A. area that would like to try to
> link these regions? Is there any interest in linking them together?
>
> I have another complete station (including a small beam) that could be
> dedicated to the north. The only thing I don't have is a dual port tnc.
> Is it possible to somehow link a KPC3 and a Tiny 2 via hardware or
> software?

APR REPLY: I dont know of a way to do this without a dual port TNC, or someone writing some KISS code to do it between two TNC.s But it is a good project for those areas on other frequencies...

32. PacComm TNC for DSP-93

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Tue, 03 Oct 95 06:44:17 UTC
To: aprssig@tapr.org
Message-ID: <7166@paccomm.com>
Rendered body type: text/plain

Ron, W5RKN inquired about the connection from the TNC to the DSP board serial port. Based on his observations, the product has been changed as follows: A short wire harness will extend from the bottom of the TNC terminated in a low-profile 16 pin plug. If it is desired to make use of the TNC's DSP load function, the 145406 IC is removed (and stored) and the 16 pin header is plugged into the 145406 socket.

This should work for all versions/revisions of the DSP-93.

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org

+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

33. Hurricane Opal

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 3 Oct 1995 06:58:01 +0100 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.951003065307.4793A-100000@pinegov>
Rendered body type: text/plain

At 4 AM CST, 3 Oct, 1995, a Hurricane Watch has been posted along the Central Gulf Coast from Morgan City Louisiana to just west of Pensacola, Florida.

APRS offers a great opportunity to track weather conditions along the coast. The National Hurricane Center will be requesting WX conditions in the effected area as the storm moves closer to the CONUS.

APRS weather stations are requested to GATE valid weather observations into the 30 M net along the Gulf Coast region....to be useful to the NHC, WX obs MUST include barometric pressure, in millibars, wind direction, speed, and gusts.

Thank you in advance,

Kevin Heyboer KD4UYR
Coordinator, Pinellas SKYWARN
Tampa Bay area, Florida
No. Florida ARES Official WX Bulletin Station
kheyboer@co.pinellas.fl.us

34. Balloon launch 9/30/95

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Tue, 03 Oct 1995 12:07:08 +0000
To: aprssig@tapr.org
Message-ID: <199510031207.HAA01346@uxa.ecn.bgu.edu>
Rendered body type: text/plain

I would like to find out how the balloon launch worked out on Sat. 9/30. I missed the whole thing due to other committments. Would like to see a track history file if possible.

73, Jay...

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

35. Re: [APRSSIG:3619] Help in Austin TX?

From: jneely@eden.com (Jim Neely)
Date: Tue, 03 Oct 95 07:04:54 EDT
To: aprssig@tapr.org
Message-ID: <199510031213.HAA03462@matrix.eden.com>
Rendered body type: text/plain

I run the WX net in Austin and am working on getting APRS up and running with the WX net one of the prime objectives.

jn

On Mon, 2 Oct 1995 22:46:43 -0500 you wrote:

>Got a letter tonight from W5SYT in Austin TX who has a GPS and APRS. He
>says they have an active WX network (not APRS) even including terminals
>at the local TV station. But there is NO APRS activity in Austin. He
>was looking for anyone that could help him get their attention and start
>a network.

>
>It will be nice when we get the SIG map finished so we can see who is
>near Austin on this SIG...

>
>
Jim Neely
jneely@eden.com WA5LHS@tapr.org

36. APRS SIG mail problems

From: Barry Leonard <jleonard@tbcnet.com>
Date: Tue, 3 Oct 1995 08:07:41 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.951003080245.3325A-100000@tbc2.tbcnet.com>
Rendered body type: text/plain

I just subscribed with a new internet address, and the listserver sent me a welcome that may answer some of the mail problems that have been posted recently. Please notice the "in case of problems" address.

Forwarded message follows:

Date: Mon, 2 Oct 1995 23:08:33 -0500
From: listproc@tapr.org
To: jleonard@tbcnet.com

37. Re: [APRSSIG:3580] Re: GPS45 and Tiny-2

Er. Oops! In GPS mode that's correct. In Converse Mode, as I was trying to run the cows recently, it'd not send out the packets! LFIgnore ON in the base TNC, for sure!

38. Re: [APRSSIG:3586] Re: 100K USGS Maps

Rendered body type: text/plain

I too would be interested in where to buy accessories, I need a data cable for my Garmin 40, as well as a connector for the antenna. Where can I buy these items?

42. Re: [APRSSIG:3590] Re: 100K USGS Maps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 3 Oct 1995 09:37:58 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199510031437.JAA11447@solar.cs.tamu.edu>
Rendered body type: text/plain

Just a quick note on the filenames issue:

When I grab a file, say, AU2.RDF03.opt.gz, I issue the following set of commands

```
bin                <sets the transfer mode to binary for the GZ files...>
get AU2.RDF03.opt.gz au2rdf03.gz      <gets the appropriate file and
                                      renames it within the PC convention>
```

If you have netscape, do a netsearch for GZIP or COMPRESSION and PC and you'll find the appropriate file... GZIP for the PC seems to handle a lot of compression formats and is a very useful utility.

I'll try to post BLOCK.BAS later today. It's pretty straightforward and works well. Thanks to all who shipped me code. It takes a file that's appropriately named and shifts it an appropriate .DLG extension when done. If time permits between real work and school (1 class today) I'll integrate it into conv100x.bas and you'll have a 1-step process for getting from the compressed file to .GRF files. if I have time.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

43. Re: [APRSSIG:3602] SIGNOFF PLEASE

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 3 Oct 1995 09:51:16 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199510031451.JAA11931@solar.cs.tamu.edu>
Rendered body type: text/plain

What is your e-mail address? I'll give it a try from remote control... but need that!

gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

44. Re: [APRSSIG:3626] Re: GPS45 and Tiny-2

From: dwetzel@acs.uswest.com
Date: Tue, 3 Oct 1995 08:04:39 -0500
To: aprssig@tapr.org
Message-ID: <071382e0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Bob Bruninga sez:

>

>

> On Fri, 29 Sep 1995, Gerald J Creager wrote:

>

> > Regarding use of a GPS45 with a Tiny2... Make sure your GPSTEXT parameter is

> > set and Make sure RTS/CTS (Pins 7 & 8 on the DB9 connector) are jumpered

> > Have LFIgnore off on the tracker. >

>

> APR REPLY: Dont you mean LFIgnore ON...

Er. Oops! In GPS mode that's correct. In Converse Mode, as I was trying to run the cows recently, it'd not send out the packets! LFIgnore ON in the base

TNC, for sure!

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

How about a complete description of this config for my club and sig "help" folder? See previous sig messages for format, or I can re-post if necessary.

Thanks!

Doug Wetzel
KC7CO

45. Re: [APRSSIG:3619] Help in Austin TX?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 3 Oct 1995 10:14:59 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199510031515.KAA12505@solar.cs.tamu.edu>
Rendered body type: text/plain

There are a couple of Austinites active, and I'll try to grab 'em. but they are doing standalone PC-logging so far. I'll try to get 'hold of this guy and see if I can help (in my copious spare time).

73, Gerry

ps... The new wife wouldn't let me log the track of the honeymoon, and a tracker was RIGHT OUT!

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

46. Re: [APRSSIG:3619] Help in Austin TX?

From: DDOBBINS@aol.com
Date: Tue, 3 Oct 1995 14:13:10 -0400
To: aprssig@tapr.org
Message-ID: <951003141309_35410136@mail06.mail.aol.com>
Rendered body type: text/plain

Bob and the SIG, we just bade farewell to a Ham here in Hawaii, Jim/WH6LR, who transferred to Killeen, TX for more Army duty. He'll be set up in late October and looking for others in that area. Perhaps they can link up when Jim gets on freq. Curious to what freq the Austin group is using, and if I hear from Jim I'll pass that to him. Aloha y'all. Dave.

47. APRS HSP Y-cable

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Tue, 3 Oct 1995 11:47:11 -0700
To: aprssig@tapr.org
Message-ID: <v01510103ac9733b10777@[128.149.100.84]>
Rendered body type: text/plain

I pulled this off of packet:

>From : AC6JA @ KA6EYH.#NOCAL.CA.USA.NOAM
To : ALL @ ALLUS
Date : 950928/1356
Subject : APRS HSP Y-cable

Hi there. Name is Mike and I'm in Foster City, CA. This message is for owners of the Paccomm APRS Y-cable HSP switch would have not been able to get it to work. First off, Paccomm has made a change to their HSP cable which included an additional wire. The Y-cable needs voltage at pin 6 of the DB-9 connector which is the DSR line. Some computers, especially laptops, conserve their power by not using or insufficiently powering the DSR line. This is why Paccomm has installed an additional wire in the Y-cable. This wire connects together both the DSR lines of both the computer and the TNC. The problem with using the Y-cable with the HandiPacket is that there is nothing connected to the DSR Pin 6 in the TNC. Paccomm is working on a recommended wiring change to get power to the DSR line Pin 6 of the TNC. I have been able to use the Y-cable with my Kantronics KPC-3, but you need

to perform a slight modification to the TNC. First, you need to cut the trace between the pads of J10. This is explained on page 96 of the KPC-3 manual. Cutting this trace separates the DSR from the DTR line. The DTR line gets toggled from the computer APRS program to switch the Y-cable from the TNC to the GPS for a second or so to update position data from the GPS. Second, you need to install a 4.7Kohm resistor at R-48. This will cause the KPC-3 to automatically pull the DSR pin active whenever the TNC is turned on. This is explained on page 95 of the KPC-3 manual. Lastly, you might need to cut pin 6 either at the computer end or the TNC end, whichever pin you're not using to power the Y-cable. This should only be done if you are experiencing a conflict with both DSR's connected together. Hope this information is helpful to some of you who have been pulling their hair out trying to get it to work. It's not plug-n-play folks! Finally, Kantronics has now come out with their own HSP cable. No adapters needed. The cable plugs right into the TNC, other cable to computer, and open ended wire goes to the GPS. Haven't tried it yet, but at least now I have a head start in getting it to work if I need to. Anyways, good luck, and hope to "see" you on APRS!

----- End of message 58897 from AC6JA @ KA6EYH.#NOCAL.CA.USA.NOAM -----

--
Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
Pasadena, CA 91109 |

48. Re: [APRSSIG:3630] Re: CATALOG FOR GAR

From: JAgrelo@aol.com
Date: Tue, 3 Oct 1995 15:29:40 -0400
To: aprssig@tapr.org
Message-ID: <951003152939_70571669@emout05.mail.aol.com>
Rendered body type: text/plain

You can get the power/data cable from E&B 1(800)533-5007, and the antenna extender from Radio Shack part # 20-022 \$11.99 (suction cup ducky mount) works great for the GPS-45, I'm not familiar with the 40.

Hope this helps.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com

Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products

Experts in Microchip and Motorola processors

49. WIDES,no,no,no

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 3 Oct 1995 16:43:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951003101200.9617A-100000@greatlakes>
Rendered body type: text/plain

I was recently made aware of the following advice about APRS operations in South Florida. The message covers an excellent explanation of how digipeaters and UNPROTO paths work, but at the end draws some incorrect conclusions and wrongfully encourages everyone to be a WIDE! First, my comments and then you can read most of the text yourself..

FACT: Every WIDE that digipeats a packet cuts the channel capacity 50%.
FACT: Every DIGI in a via path cuts channel capacity by 50%.
FACT: When you send a packet via X,Y,Z presumably you only hear the packet digipeated by X, so the 50% reduction in channel capacity is spread out to three areas and only 4 packets are generated along the entire distance.

If you have 3 local WIDES in an area and stations use W,W,W, there will

be 22 packets generated AND THEY ARE HEARD NOT ONLY IN THE LOCAL AREA, but also OUT 3 WIDES IN ALL DIRECTIONS. This exponential growth in QRM has cut channel capacity by TWENTY TWO. Or only 4% of the original channel capacity is available for others.

APRS RULES: To minimize QRM while maximizing range:

- 1) WIDES must have EXCELLENT VHF COVERAGE and be WIDELY separated. *PERIOD*
- 2) Users may cover beyond their area easily with WIDE,WIDE,XXXX,etc
- 2) Users should not use WIDE,WIDE,WIDE addressing under MOST circumstances!

COROLLARY: If you want to increase the range of mobiles:

- 1) WIDES MUST have EXCELLENT VHF COVERAGE AND BE WIDELY SEPARATED. *PERIOD*
- 2) All WIDE digipeaters should also have the alias of RELAY
- 3) Home stations should always be RELAY
- 4) Mobiles should use the path of RELAY,WIDE
- 5) Weak mobiles out of range of a WIDE, may use RELAY,WIDE,WIDE

It doesn't take a rocket scientist to understand that if you are hearing each packet 10 to 20 times, that your network is NOT working for the other 99% of the users on the channel!

Here is the message. The first part is sensible. The last paragraphs make it clear that there is a fundamental misunderstanding in channel throughput.

```
> From : <CALL DELETED TO PROTECT THE POOR GUY>..#HWDFL.FL.USA.NA
> To : APRS @ SOUTH
>
```

[... one page of UNPROTO explanation deleted...]

```
>
> APRS is concerned mostly with mobile operations. The local
> amateur station running APRS is mostly interested in providing
> the service of re-broadcasting (digipeating) for the travelers,
> or perhaps performing the service of an HF gateway so that the
> traveler's APRS location packets can be sent to somebody back
> home and be picked up and displayed on the screen by their
> friends. Another necessary service is to just 'be there' for
> emergency use such that emergency type services can make use of
> the computer maps that APRS has to offer.
>
> What we should not concern ourselves with is that every beacon or
> every packet reach as far as it can and that every packet have
> it's own clean QRM free slice of time on the air. This is not
> only unimportant, but is almost impossible to do in an established
> APRS community as we have in South Florida. There are many APRS
> stations beaconing that we cannot expect all, or even
> most, of the beacons to make the full digipeat distance. It is
> not only not important, it is not necessary. The only necessary
> thing in the APRS world is that an occasional APRS packet make it
> to each APRS user. Once that occasional packet has made it to a
> screen as an icon then the system has performed it's purpose. It
> is not important that we drill the screens of all APRS users with
> beacons. After the first one it is only redundant.
```

APR COMMENT: This overlooks the fact that SOME PACKETS WILL NEVER get past TWO WIDES. Both WIDE's will ALWAYS repeat the packet at the same time, meaning NO FURTHER WIDES will EVER hear the packet without collision.

```
>
> Now a bit about the unproto paths themselves. If a user wants to
> have everyone in the entire Southern part of the state see his
> little house on their screens then that APRS user should set his
> unproto path to make that happen. One good method for this is to
> set the path to 'aprs via wide,wide,wide'. <NO!> That string will
> digipeat to any APRS user via the first station who has an alias
> as 'wide', on to the second station set with an alias of 'wide',
> and to a third station set with an alias of 'wide'. There will
> be a lot of bouncing around of the digipeated packet but it will
> sure be seen a long way. <NOT IF ALL THE LOCAL WIDES COLLIDE!>
> If your station is set to 'wide' as your
> alias then your station will digipeat your own beacon after your first
> 'wide' digi. This should not be a problem, unless
> you are listening to the audio signal. You may hear one beacon
> go on for many seconds just bounding from digipeater to digipeater.
*< AND I ASSUME THIS LOSS OF THE CHANNEL FOR SEVERAL SECONDS IS OK?!!>
```

```
>
> A better, or at least quieter, solution is to set your digipeat
> path (unproto path) to a fixed station and then a wide or two. I
```


> have mine set to 'aprs via wa4whd-3,wide,wide'. This gets me
> first to the digipeater at the Memorial Hospital in Hollywood,
> then to any 'wide' alias who is listening, and then to any other
> 'wide' alias after that. I am sure that it is reaching the upper
> Keys as well as, perhaps, West Palm. That is more than enough
> for me. < THIS IS APPEARS SENSIBLE FOR A HOME STATION...>
>
> Although the first solution makes perhaps more racket, the second
> solution is no slouch in the packet noise department either. My
> answer to the 'which is better' department is a question to each
> user: How far and which direction(s) do you want others to see
> your little house icon? You set your own paths. Let the timid
> APRS'r set his path to none (empty path), let the more aggressive
> user <LID> set it to the local digipeater, etc.
>
> For those who use the APRS system to send messages: set your
> paths to be specific.
> <THE REST OF THIS PARAGRAPH MAKES SENSE AND WAS DELETED FOR BREVITY>
>
> Now a word on setting a 'wide' alias in your rig such that you
> become a digipeater. If you feel that you would be filling a
> hole in an APRS area where there are no high site digipeaters
> then set your alias to wide. If you want to digipeat for local
> travelers because you live near the turnpike and the digipeater
> works only so-so in the area, then set your alias to wide. If
> you are just feeling a bit ornery and want to set your alias to
> wide, then do so. It won't hurt the system even a bit.
> < ON WHICH PLANET? >
> Those
> who are concerned that the digipeat paths will be 'used up' by a
> bunch of local wide aliases are wrong. The digipeat path will
> prevail, the packets will get out to the next county, despite all
> the 'QRM' created by too many wides. Just turn the audio off,
> you don't have to listen to it. <YOU MAY AS WELL TURN YOUR RADIO OFF
TOO, SINCE NOTHING IS GOING TO GET THROUGH THE CHANNEL EITHER>

> The only time it will begin to hurt, packet racket wise, is when
> we start beaconing too often and also have very aggressive unproto
> paths and we have many many wide aliases. Between the digipeat
> paths, the extra 'wide' aliases, and the too frequent beaconing,
> the airwaves may start to get cluttered to where the traveler,
> who the system was designed for in the first place, will have a
> hard time getting his location beacons through. Again, though,
> only one packet every once in a while has to get through, not
> every one.
> <TRUE FOR YOUR SHACK WHILE YOU ARE WATCHING TV IN THE OTHER ROOM, BUT
NOT TRUE FOR THE STRANDED MOTERIST IN A POOR VHF LOCATION>

Even with an almost saturated 145.79 Mhz frequency
> cluttered with RF, an occasional beacon will make it. <NO, NOT WITH
REDUNDANT WIDES HEARING THE SAME DUPLICATES> The system
> will still 'work'. Our mature APRS network still has plenty of room
> for new users and the many travelers who visit us.
>
> Don't be terribly concerned about how your neighbors have their
> aliases set, or how large a digipeat path they are set for. It
> really doesn't matter much with an unproto system. You only need
> that one packet once in a while to make it through the clutter.
> Those hams who are concerned will set their aliases to something
> other than wide, and will set their paths to something a bit more
> modest. The rest of us will set for something more aggressive,
> or perhaps something in between. The system works, and will work
> despite ourselves.
>
> 73, John <<CALLSIGN DELETED TO PROTECT THE UN-INFORMED>
>
CONCLUSION: What the above individual has overlooked is that CERTAIN
PACKETS WILL NEVER GET THROUGH when there are more than one WIDE that
hears a packet. If there are 2 WIDES between a user and a THIRD distant
WIDE, then that 3rd WIDE WILL NEVER HEAR THAT USER, no matter how many
WIDES he puts in his path. This is because, both of the first WIDES will
always COLLIDE at the 3rd WIDE so that it ALWAYS hears mush.

READ DIGIS.TXT

50. Doppler RS-232 port option

From: CMPK59D@prodigy.com (MR ROBERT D SWAIN)
Date: Tue, 03 Oct 1995 17:33:29 EDT

To: aprssig@tapr.org, owner-fox-list@netcom.com
Message-ID: <013.02302463.CMPK59D@prodigy.com>
Rendered body type: text/plain

-- [From: Robert D. Swain * EMC.Ver #2.10P] --

Hello de Robert, N7LUE !

If you have been trying to get in touch with me about RS-232 option boards for doppler units, well, I've been out of the country on business and I had no access to the Internet. The good news is I'm back for a while and eager to answer questions or provide assistance. Those of you who managed to find me via snail mail, let me know how you like your kit!

Glad to be back on the list!
Robert, N7LUE

51. Re: [APRSSIG:3635] Re: Help in Austin TX?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 3 Oct 1995 16:40:58 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199510032141.QAA21088@solar.cs.tamu.edu>
Rendered body type: text/plain

What's his in-process date? I spend quite a bit of time over there, and have some good maps of the Coperas Cove area, and am starting to get some of Ft Hood. Also, what is his assignment? If he's got e-mail, have him get ahold of me, and I'll help him. To the best of my knowledge there is not an active APRS contingent, but something just came up that I'd like to chat with him and TEXCOM about...

73, gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

52. Re: [APRSSIG:3630] Re: CATALOG FOR GAR

From: wa2fxb@ix.netcom.com (Sid Lieberman)
Date: Tue, 3 Oct 1995 15:22:31 -0700
To: aprssig@tapr.org
Message-ID: <199510032222.PAA26964@ix2.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>I too would be interested in where to buy accessories, I need a data cable
>for my Garmin 40, as well as a connector for the antenna. Where can I
>buy these items?

>
>The Garmin 40 connector is called MCX
manufacturer is Huber and Suhner Inc
One allen Martin Drive
P O Box 400
Essex,Vt 05451

A rep is C.W. Swift & Associates
15216 Burbank Blvd Suite 300
Van Nuys, Ca 91411
(818) 989 1133
(818) 989 4784 Fax
1-800 MICROWAVE > 642 7692
Hpe this helps sid wa2fxb@ix.netcom.com

>

53. APRS Channel Statistics

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 3 Oct 95 18:55:24 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.812760924.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

There has been a LOT of discussion going on lately about wides, gates, channel usage, etc..

The Macintosh version has for a LONG time had a window of STATISTICS, those

with Macs have seen this and have found it useful in watching the system grow.

With all of the discussion etc going on about this stuff, I have enhanced the capabilities of these statistics.. In the past, there were two graphs,

- * One showing packets/time for a 24hr period (5-minute intervals)
- * One showing packets/time for a WEEK period (1-hour intervals)

Just this weekend, I added the capability to show VHF packets vs HF packets, which has already proven very useful.

And just over the last two days, I have added a third graph which shows packets/time over a ONE YEAR PERIOD (1-day intervals), again, showing VHF in one color and HF in another color (assuming you have a dual-band TNC, which is a must to run a gateway).

All of this gives me the ability to actually quantify what is going on and see the difference between a busy period and a slow period.

The recent addition of separating the VHF vs HF has added a lot to what is shown with these graphs, and I have already gotten some good comments back from the couple beta-testers using this..

It is quite interesting to see usage spikes or swells on weekends and in the evening.. Now with the HF separated out, it allows me to tell when the propagation is getting better just at a glance..

This new version will be up on TAPR either tonight or tomorrow..

It will be MacAPRS 2.0.1

Bob, your last comment about the DIGIS etc was quite good.

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

54. Re: [APRSSIG:3634] Re: Help in Austin TX?

From: BenW5SR@aol.com
Date: Tue, 3 Oct 1995 20:13:06 -0400
To: aprssig@tapr.org
Message-ID: <951003201240_35700516@mail06.mail.aol.com>
Rendered body type: text/plain

Can't help in Austin much, but we do have a growing group on APRS in the panhandle (Amarillo). Activity here is also for the ARES WX net. As activity spreads throughout the state it would be nice to keep a record of who's on APRS, what freq, and what are they doing with it in their area. It would be kinda like the SIG list they are working on, but on a statewide basis rather than sig wide. Any thoughts on this let me know.

73 Ben W5SR Potter Cty ARES EC, Skywarn net Manager. BenW5SR@aol.com
3514.12N 10149.54W

55. Dual TNC's

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 3 Oct 1995 20:46:14 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951003203502.20073B-100000@greatlakes>
Rendered body type: text/plain

On Tue, 3 Oct 1995 n2czf@gate.net wrote:

- > Last night the president of the local Palm Beach Packet Group asked if
- > there was a way to get APRS to read 2 TNC's.
- > He listens to 10.151 and 145.79 but does not own a dual port TNC,

SURE! Just hook them both up! Connect both TXD lines to the PC TXD output so that APRS drives both TNC's, then diode-OR the RXD lines

together to the PC RXD input. Set both TNC's to 9600 (or higher) and this should work MOST OF THE TIME. Even for fully saturated nets on VHF and HF, At 19200 baud, each packet will only be active on the PC port about 6% for VHF and 2 % for HF. The chance of a collision will be small... But you will get some GARBLED packets when they do collide, so be prepared to take all packets with a grain of salt.

Also, you should have a toggle switch on the TXDlines, so that when you are MESSAGING on one band, you are NOT sending out packets on the other channel.

This DUAL BAND station will NOT be able to GATEWAY, but it should allow you to participate on both bands.

As far as APRS is concerned, just tell it you are on HF so that it will halve its timers and not overload the HF channel... (this will also avoid the "bitch warnings" when you use GATEWIDE on HF...

56. MFJ data radio

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 3 Oct 1995 21:05:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951003205716.20073D-100000@greatlakes>
Rendered body type: text/plain

As I posted a week or so ago, I special ordered 5 MFJ 5 watt Data radios via my local amateur radio dealer. I paid list price of \$119 per radio and \$14.95 each additional to have them DELIVERED on 145.79. I got the box tonight, read the manual (yes I did!), and popped off the cover.

I am pleased with what I see. Now all I gotta do is find a TNC with true DCD and cable it up for some on air tests. The manual does warn that this amateur product should not be expected to operate in a commercial repeater site with comparable \$1000 radios...

Mine will be remotely located at isolated digipeater sites, but I will add a thermostat and heater to keep it somewhat temperature stable...

More later when I get them on the air. Weeks or more probably...

57. Re: [APRSSIG:3645] MFJ data radio

From: DDOBBINS@aol.com
Date: Tue, 3 Oct 1995 21:39:51 -0400
To: aprssig@tapr.org
Message-ID: <951003213950_115600968@mail06.mail.aol.com>
Rendered body type: text/plain

What's this I hear about a new MFJ data radio with 30w output???? Anybody else heard this. In line with efficient net operation, I'd like to see a 10w out radio, but not necessarily a 30 watt. Glad to see Bob got his order of data radios as promised. BTW, PacComm is shipping the Pico Packet model with 32K RAM installed for \$129, and has indicated the version w/second serial port will be available next week. Aloha, time to head back to the beach. Dave/WH6YC.

58. Re: [APRSSIG:3596] Re: 100K USGS Maps

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Tue, 3 Oct 1995 21:02:03 -0400 (EDT)
To: "Jan A. Barglowski" <jan@archimedes.vislabs.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9510032102.A6306-b100000@acme>
Rendered body type: text/plain

On Mon, 2 Oct 1995, Jan A. Barglowski wrote:

> On one chunk of the map, I create the map within MAPFIX15, remove all the
> single point features (the "C" command doesn't do anything :-(), then I
> run it thru the DEFRAGB program. But one file causes the DEFRAGB program
> to crash in one of two ways: It can't find the SCRATCH1.TMP file to copy;
> or it gets an "END OF INPUT FILE" error. Have you had these problems, and
> do you know what causes them?

CAN'T FIND SCRATCH1.TMP - It didn't have enough lines to defrag.

END OF INPUT FILE - one of your points has a 0 (zero) in it.

Have I had these problems, you bet your bippy I have. Do I have a cure - Can't find - combine two maps and then defrag - END OF INPUT FILE use a text editor and go thru the SCRATCHx.TMP that's the largest,

looking for a xx.0 line point.

>
> Good luck on your "howto to APRS maps" paper. I'll be willing to proof it
> for you if you'd like...
>
Is my spelling that bad..... :-(

The Ohio Mapmaker - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address: 39 56.35 N 082 58.89 W
The 157th most knowledgeable person about A.P.R.S. and slipping fast

59. AX25 ENCAP...

From: "John W. (Bill) Hays, W00MV" <billh@netins.net>
Date: Tue, 03 Oct 1995 20:19:04 CST
To: aprssig@tapr.org
Message-ID: <00997555.F2B7E15A.91@netins.net>
Rendered body type: text/plain

I saw it, downloaded or copied it, and apparently have subsequently pitched it. I'm talking abt the note from DeWayne Hendricks et al about hams not having to use ax.25 protocol to encapsulate the tcp/ip protocols within anymore.

Could someone quote both the original wording of the pertinent FCC rule and paragraph(s) and the new version that deletes that requirment...PLEASE

I put my foot in my mouth at last club mtg and now can't cover my AXX. Hi Hi

billh@netin.ins

73, Bill W00MV
P.S. SRI abt the prior EOL garbage I sent earlier.

60. EME & APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 3 Oct 1995 23:54:55 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951003234827.20451E@greatlakes>
Rendered body type: text/plain

I may as well ask the question... What is the BEST weak signal MODEM? FM AFSK is the WORST. 300 baud FSK (HF) is poor. All the HF modems are targeted at the HF medium which is NOT white noise gaussian....

Wasnt there a BPSK, or one of the satellite modems that is supposed to give 10db improvement over conventional packet if used terrestrially...

I believe that TOM Clark W3IWI has long ago bounced a packet off the moon, but who will be the first to do an APRS POSIT?

The first EME weekend is coming up this friday..

We at the Naval Academy arent even hearing our own CW echos yet, so this is NOT an immediate quuestion...

61. Golden Packet

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 4 Oct 1995 00:13:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951003235519.20451F-100000@greatlakes>
Rendered body type: text/plain

Back in 1979 when AX.25 began to support 8 digipeaters, there was talk of the GOLDEN packet award for the first transcontinental VHF packet. Did anyone ever claim that prize?

Would a double hop meteor scatter packet count? The rules I believe clearly said terrestrial, but does that mean NOT satellites or does it exclude MScatter too.

Anyway, an APRS posit would be a nice one.

Depending on the definition of the word Terrestrial, Balloons and

Aircraft may be out of it... but a tethered Kite could arguably count.

At 2800 miles, this means a digipeat every 350 miles...

Or could a doctored up APRS protocol that regenerated itself along the way count? Then it could takes dozens of hops. Even so, as soon as we see a string of digipeaters no matter how perverse from coast to coast, we outta do it just for fun. Already, a packet could go from Boston to Central virginia. Look at the APRS DIGIS.BK file. But we each only see our own miopic view. There is a gap through southern VA, but once into North Carolina, I think it could get to Alabama.

There should be a path through Ohio to Iowa or Missouri, but I dont know.

If your local DIGI is a BIG ONE, be sure it is in the DIGIS.BK file. Send me its POSIT string if it isnt. Lets dont clutter DIGIS.BK with EG0peaters, though, just LONG DISTANCE WIDES.

62. APRS and LOGITECH STATIONARY MOUSE (Trackball)

From: tedant@ke6et.clark.net (Theodore Antanaitis)
Date: Tue, 03 Oct 95 23:15:25 EDT
To: aprssig@tapr.org
Message-ID: <e9FFcD1w165w@ke6et.clark.net>
Rendered body type: text/plain

After much experimentation I have not yet gotten APRS to properly respond to my LOGITECH trackball. If anyone is successfully using a LOGITECH Trackball with APRS I would appreciate some info on what driver and settings you are using. My setup is a 386SX Clone with a Model T-CC2-9F TrackMan Stationary Mouse running APRS ver. 7.3C.
Thanks much.

Originated at the ARN BBS in Annapolis MD USA. 1 410 280-2503
>From tedant@ke6et.clark.net - [Theodore Antanaitis]

63. Re: [APRSSIG:3648] AX25 ENCAP...

From: dewayne@warpspeed.com (Dewayne Hendricks)
Date: Tue, 3 Oct 1995 22:59:43 -0700
To: aprssig@tapr.org
Message-ID: <v0213051bac97ceb3a790@[204.118.182.22]>
Rendered body type: text/plain

At 21:05 10/3/95, John W. (Bill) Hays, W00MV wrote:
>I saw it, downloaded or copied it, and apparently have
>subsequently pitched it. I'm talking abt the note from
>DeWayne Hendricks et al about hams not having to use ax.25
>protocol to encapsulate the tcp/ip protocols within anymore.
>
>Could someone quote both the original wording of the
>pertinent FCC rule and paragraph(s) and the new version that
>deletes that requirement...PLEASE
>

Before April 21, 1994:

97.109(e)

No station may be automatically controlled while transmitting third-party communications, except a station retransmitting digital packet radio communications on the 6 m and shorter wavelength bands. Such stations must be using the American Radio Relay League, Inc. AX.25 Amateur Packet-Radio Link-Layer Protocol, Version 2.0, October 1984 (or compatible) which is available from the American Radio Relay League, Inc., 225 Main St, Newington, CT 06111. The retransmitted messages must originate at a station that is being locally or remotely controlled.

After April 21, 1994:

97.109(e)

No station may be automatically controlled while transmitting third party communications, except a station participating as a forwarding station in a message forwarding system.

>I put my foot in my mouth at last club mtg and now can't
>cover my AXX. Hi Hi
>

You can put that foot somewhere else now.

Best,
-- Dewayne

```
-----
Dewayne Hendricks, WA8DZP ! CIS: 75210,10   AppleLink: D6547
Warp Speed Imagineering ! Internet: dewayne@warpspeed.com
43730 Vista Del Mar      ! Packet Radio: WA8DZP @ K3MC.#NOCAL.CA.USA.NOAM
Fremont, CA 94539-3204   ! AOL: HENDRICKS
Fax: (510) 770-9854      ! WWW: http://www.warpspeed.com/
-----
```

64. Illinois Balloon hst request

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Wed, 04 Oct 1995 02:19:53 -0500
To: aprssig@tapr.org
Message-ID: <199510040715.CAA20840@sys1.tapr.org>
Rendered body type: text/plain

Someone requested a history file of the Illinois balloon launch held last weekend.
Even though I'm a none ham I do have a scanner and a nice 4 element collinair antenna.
I hope it's okay to include a bak file in this message that has everything removed except for weather stations and wide stations (for those with no ftp access) I thought it would be useful when traveling the midwest.
The complete hsts file I've uploaded to ftp.tapr.org.
I'd be interested in any reports of the launch; as I preceive the gps unit locked up around 32,000 ft. What caused the lookup, was the package recovered, and was it df'ed?

barrett
ps the bak file may need some positional reformatting!

```
----- Cut Here -----
c, 41.75716 , 91.54722 , 128
l,YourCall 042139 @042139/
p,N9XHP 301010@301113/4155.80N/08742.36W8Welcome 2 APRS Net!Bigger &
Better!!
p,KB8PFF 301034@301233/4103.48N/08338.70W#PHG7370/Findlay WIDE Area APRS Digi
p,KE4TCO-10 301012!*****/3845.24N/08430.33W#"PWR5270/WIDE-RELAY APRS DIGI
BUTLER,"
p,N0BKB-1 300945!*****/4040.00N/09443.00W#"Pwr5360/WIDE DIGI ONLY -
BEDFORD, IO"
p,N0GGU-1 301030!*****/4011.30N/09509.00W#Pwr6350/WIDE APRS DIGI ONLY -
WEST O
p,N9LEM 300831@300930/4152.90N/08812.27W#PHG7230/WIDE (manual) m Digi
Station
p,N9RER-15 300904!*****/4153.04N/08738.01W#Pwr5696/Wide Chicago area APRS Digi
p,WA9CJN-15 300837!*****/4200.90N/08900.10W#Pwr3260/WIDE-RELAY..KARC APRS
WIDE D
p,WJ8T-2 301000!*****/4258.10N/08539.50W#pwr5670/WIDE-RELAY ... Wide
from Dow
p,WJ8T-3 300928!*****/4258.56N/08537.54W&pwr 5670/...EOC at Kent County!
[TNC
p,KA0RDE 301040@020020/4040.38N/09448.21W_202/021/T073/R1.1/Ulrmtr-II(auto)
p,KB8IFX 300947@291047/3911.70N/08412.77W_247/000/T074/U-II(auto)
p,KB8PVI 301021/262044/4006.31N/08316.12W_225/000/T059/R000/U-II(auto)
p,KD1E 300919@301106/4237.39N/08340.76W_112/002/T071/R000/U-II(auto)
p,KE4ROC 301032@301129/3440.31N/08633.13W_157/002/T076/R000/U-II(auto)
p,KF0ZH 300835@301430z4447.06N/09329.48W_225/008/T064/R00/U-II(auto)
p,KG0DW 300941@301042/4136.45N/09345.16W_270/004/T071/R000/P010/U-II(auto)
p,KG8PZ 300919@301120/4302.99N/08532.03W_225/009/T072/R000/U-II(auto)
p,KU0G-2 301023!*****/3913.31N/09430.40W_KC APRS WX (U-II Remote) {Parkville
p,N0AN 300859@291510z4158.20N/09333.59W_225/020/T071/R000/U-II(auto)
p,N0BKB 300920@301009/4120.57N/09419.03W_225/011/T069/R000/U-II(auto)
p,N0GGU 300816@300910/4009.00N/09502.49W_270/005/T072/R000/P159/U-II(auto)
p,N8OCQ 301022@301225/3955.09N/08305.63W_225/004/T069/R000/U-II(auto)
p,N9QGS 300934@301538z4201.15N/08809.65W_270/011/T075/R00/P000/G021/
U-II(aut
p,N9VJQ 300842@300940/4155.29N/08845.04W_247/000/T066/R000/U-II(auto)
p,ND5S 300928@301115/4242.20N/08423.47W_202/004/T068/R000/U-II(auto)
p,W0BXR 300816@300912/4131.58N/09034.40W_112/001/T073/R000/P008/U-II(auto)
p,WA1LRL 301014@301213/4232.97N/08343.63W_202/004/T072/R000/U-II(auto)
p,WB8VJI 301004@301204/4252.91N/08413.49W_202/005/T076/R000/U-II(auto)
p,WJ9H 301001@301043/4301.38N/08929.95W_200/008/T070/WX rept
r,
```

```
r,TIME * TICK:10-01-1995 08:13:12
h,TIME      , 8 , 999
```

65. [Keith Sproul <ksproul@hardees.rutgers.edu>: [APRSSIG:3642] APRS Channel Statistics]

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 4 Oct 95 9:09:54 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.812812194.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

MacAPRS 2.0.1 is now up on TAPR.

Both the 68k version and a PPC version are up on the TAPR ftp site.

ftp.tapr.org /tapr/SIG/aprs/uploads

MacAPRS 2.0.1 has the following features..

- * A lot of additions to the STATISTICS display, this was discussed in my previous message (copied below)
- * A couple of minor improvements to the Callbook database settings.
- * A fix to convert KNOTS to MPH when receiving GPS data
- * MacAPRS no longer transmits ?APRS? on the hour. This was done to reduce channel clutter

=====

There has been a LOT of discussion going on lately about wides, gates, channel usage, etc..

The Macintosh version has for a LONG time had a window of STATISTICS, those with Macs have seen this and have found it useful in watching the system grow.

With all of the discussion etc going on about this stuff, I have enhanced the capabilities of these statistics.. In the past, there were two graphs,

- * One showing packets/time for a 24hr period (5-minute intervals)

- * One showing packets/time for a WEEK period (1-hour intervals)

Just this weekend, I added the capability to show VHF packets vs HF packets, which has already proven very useful.

And just over the last two days, I have added a third graph which shows packets/time over a ONE YEAR PERIOD (1-day intervals), again, showing VHF in one color and HF in another color (assuming you have a dual-band TNC, which is a must to run a gateway).

All of this gives me the ability to actually quantify what is going on and see the difference between a busy period and a slow period.

The recent addition of separating the VHF vs HF has added a lot to what is shown with these graphs, and I have already gotten some good comments back from the couple beta-testers using this..

It is quite interesting to see usage spikes or swells on weekends and in the evening.. Now with the HF separated out, it allows me to tell when the propagation is getting better just at a glance..

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

66. Re: [APRSSIG:3651] APRS and LOGITECH STATIONARY MOUSE (Trackball)

From: N9VJQ@aol.com
Date: Wed, 4 Oct 1995 09:33:04 -0400
To: aprssig@tapr.org
Message-ID: <951004093303_115905464@mail06.mail.aol.com>
Rendered body type: text/plain

In a message dated 95-10-04 01:27:24 EDT, you write:

>After much experimentation I have not yet gotten APRS to properly
>respond to my LOGITECH trackball.

I also tried to get my LOGITECH mouse to work with APRS, to no avail.

All my problems disappeared when I went to a local computer store and got a \$9.00 non-LOGITECH mouse. Now it works great! And I didn't have to change anything. Evidently, LOGITECH uses a different language that APRS doesn't recognize.

Incidently, by not getting a LOGITECH, I ended up getting a better mouse, too.

Barry Leonard
N9VJQ

67. Re: [APRSSIG:3653] Illinois Balloon hst request

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Wed, 04 Oct 1995 07:07:16 -0500
To: aprssig@tapr.org
Message-ID: <199510041340.IAA16142@thymaster.interaccess.com>
Rendered body type: text/plain

>I'd be interested in any reports of the launch; as I preceive the gps unit
>locked up around 32,000 ft. What caused the lookup, was the package
>recovered, and was it df'ed?
>
>
>barrett

BALLOON Found..

Just recieved news that the package was found in Lemont Illinois. Intact more news to follow.

Ed
N9LCI

68. RE: [APRSSIG:3652] Re: AX25 ENCAP...

From: "John W. (Bill) Hays, W00MV" <billh@netins.net>
Date: Wed, 04 Oct 1995 09:57:06 CST
To: aprssig@tapr.org
Message-ID: <009975C8.3A24CD0B.451@netins.net>
Rendered body type: text/plain

TNX very much DeWayne!!!!
73, Bill

69. Re: Golden Packet

From: Zonker@eworld.com
Date: Wed, 4 Oct 1995 08:26:45 -0700
To: aprssig@tapr.org
Message-ID: <951004082644_15968548@hp1.online.apple.com>
Rendered body type: text/plain

I believe that prize **was** claimed, but I cannot think of the details involved. I recall that a group in the Rockies helped give us some big hops...lots of high-gain beams in the middle...I wish I could remember more.

There was also the emergence of the east/west-coast 'wormhole' which connected a couple of TNC's (back-to-back) using the Internet as a serial cable....

I remember the days fondly, building TNC kits for other folks, and burning each one in for a week or two 'to check for weak components', since I could not afford to buy my own.

Hello, Hank Magnuski, wherever you are.

David K. Z. Harris ex- Pacific Packet Radio Society

(FYI: The old PPRS is now the "Hi-Tech Experimenters Club")

70. HABET7.HST Posted

From: Ralph Wallio <WALLIO@dsm1.dsmnet.com>
Date: Wed, 4 Oct 1995 11:06:24 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <951004110624.14a3@dsm1.dsmnet.com>
Rendered body type: text/plain

TO : aprssig@tapr.org
FROM : Ralph Wallio, W0RPK
SUBJECT: HABET7.HST Posted
DATE : 04Oct95

Students of the Iowa State University (ISU) Spacecraft Systems and Operations Laboratory (SSOL) completed High Altitude Balloon Experiments in Technology (HABET) mission seven on Friday, September 22, 1995. HABET-7 was released from the ISU campus in Ames, Iowa and landed near Lisbon, Iowa east of Cedar Rapids.

Mission experiments included transmission of APRS compatible GPS navigation data at 10-second intervals. A resulting APRS history file (habet7.hst) has been posted to

<ftp://tapr.org/tapr/SIG/aprssig/upload/habet7.hst>

Preparations for HABET-8 are under way toward a mission in mid-November. More information will follow.

Regards, Ralph Wallio, W0RPK

71. Re: [APRSSIG:3613] New User Help

From: dwetzel@acs.uswest.com
Date: Wed, 4 Oct 1995 09:49:02 -0500
To: aprssig@tapr.org

Message-ID: <072971a0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Hi...

A friend and I have been trying since Friday evening to get our APRS programs and stations working properly. We are at the point where I receive his beacon which comparing it to the format in the docs looks correct. But I do not get a display of the station on my map. Also, from his position he can hear many other stations from New Jersey but does not get a display on his screen. We have tried various combinations of RELAY, WIDE, WIDE,WIDE, WIDE,RELAY, SPK,WIDE, SPK,WX3A, SPK,RELAY AND WM3L (SPK being a local packet digi in the area), and have had no luck with any. Also there is nothing in the Heard, Latest or All Beacons lists about either station.

My friend Ray, WX3A is using an AEA-232 TNC, and I have a PacComm TNC-220. BTW. As far as we can tell, we are the first and only operators trying this in our area...we hope to get more!

Hopefully, this is a start on the resolution of our problem but being so new at it, I'm not sure exactly what questions to ask or what info may be needed for a complete solution. If you can help us, and need more info please e-mail me.

Thank You.....Bernie, WM3L berlyn@epix.net

Make absolutely sure you have HEADERLN set to OFF on the PK232, and the equivalent command on the Paccomm. That was the key to getting MacAPRS working here, if that's the APRS version you are working with.

Good luck and welcome!

Doug
KC7CO
SLC, UT

72. Re: [APRSSIG:3649] EME & APRS

From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>
Date: Wed, 4 Oct 95 12:15:49 EDT
To: aprssig@tapr.org
Message-ID: <9510041615.AA08401@abaco>
Rendered body type: text/plain

At 23:04 10/3/95 -0500, you wrote:

>I may as well ask the question... What is the BEST weak signal MODEM?
>FM AFSK is the WORST. 300 baud FSK (HF) is poor. All the HF modems are
>targeted at the HF medium which is NOT white noise gaussian....

>
>Wasnt there a BPSK, or one of the satellite modems that is supposed to
>give 10db improvement over conventional packet if used terrestrially...

>
>I believe that TOM Clark W3IWI has long ago bounced a packet off the
>moon, but who will be the first to do an APRS POSIT?

>
>The first EME weekend is coming up this friday..

>
>We at the Naval Academy arent even hearing our own CW echos yet, so this
>is NOT an immediate quuestion...

>
=====

hi:

want a good discussion on modems check out the text files that are included in the meteor scatter program for paket. it can be found on the web under the NEWS page. it is a good text. i rx a note from the author that he can provide pc boards for anyone to build one, the design is based on the jas1 modem. i am trying to distribute this info to the ms gang so that APRS can give it a good go on ms.

73's....david

>
>

73. APRS & DFing

From: Dick Mead <mead@skat.usc.edu>
Date: Wed, 4 Oct 95 10:43:31 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.812828611.mead@hamal.usc.edu>
Rendered body type: text/plain

I seem to recall someone (Bob or Keith?) explaining a method of using aprs in a DFing situation where a direction may not be known, but a relative signal strength (or lack of) could be plotted. It involved intersecting circles, or a gap, or something. Could whomever please repost or restate this? Thanks
Dick WB6NGC

yeah, I know, I should have saved it.....go figure

74. Re: [APRSSIG:3662] APRS & DFing

From: JAgrelo@aol.com
Date: Wed, 4 Oct 1995 14:07:45 -0400
To: aprssig@tapr.org
Message-ID: <951004140744_36291736@mail06.mail.aol.com>
Rendered body type: text/plain

It sounds like your talking about the OMNI mode under DF, see the APRS/README files and look under DF.TXT.

Hope this helps.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com

Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products

Experts in Microchip and Motorola processors

75. 73C BUGS?

From: joe.garber@logon-philly.com
Date: Wed, 04 Oct 95 14:38:53
To: APRSSIG@TAPR.ORG
Message-ID: <9510041438.A5799wk@logon-philly.com>
Rendered body type: text/plain
TO: APRSSIG@TAPR.ORG

Hello to all.

Here are some observations on version 73C version. Don't know if they're bugs or whether I'm doing something wrong, but here goes:

- 1) When using the N command, the weather station is no longer circled on the map as in previous versions.
- 2) The one and ONLY station that shows up under the A menu is my own! Though other stations come up on the map and the L/P screen lists fill up, the

A listing remains vacant. I tried playing with every conceivable filter setting available...no luck.

3) To go along with #2 above: The program no longer beeps when I hear a new station. I tried all the various BEEP toggles and alarm settings but couldn't get it to work.

Hope these observations are of some use. By the way, I'm using a 286 machine with a PK-88 TNC. Version 73a shows none of the above symptoms.

Other than that, the program works well. The display of hurricane Opal is something to see.

Regards,
Joe

Internet: joe.garber@logon-philly.com
Amateur Radio Packet Network: WB3IHY @ KE3CZ.#EPA.PA.USA.NOAM

___ Blue Wave/QWK v2.20

76. Re: [APRSSIG:3645] MFJ data radio

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Wed, 4 Oct 1995 15:09:01 -0400
To: aprssig@tapr.org
Message-ID: <199510041909.PAA28428@dylan.mindspring.com>
Rendered body type: text/plain

Glad to see that you got the MFJs.
What do you mean by "isolated digipeater sites"? Maybe someone's QTH on a hill? Are you the *only* thing there? Or are there other users? Are there any other 2M ham repeaters or any High Band business users? If so, watch out for desense of your receiver. You might still need a bandpass cavity to protect your receiver.

Also, even with 5 watts, I'd still make real sure the transmitter is clean. The cavity would help clean that up as well.
We just lost a really nicely located high digi. The operator was not using a bandpass cavity and was desensing the rx of the co located 2 meter repeater. The 2 meter repeater won. I think a cavity and / or notch would have licked their problem.

For anyone putting up digis: For less than the cost of that MFJ, you should be able to pick up a used commercial radio. I have been using Motorola Mitreks and certain GEs (MVP, EXEC II and MASTER IIs).

The last one I made, N4NEQ-2 is a \$40.00 Motorola Mitrek. We *paid* Motorola to tune it up (I didn't have time to do it). This cost 38.00 The crystals cost \$10.00 each and I needed no control head, speaker, or controls. I used discriminator audio output straight into a KPC3 (which can use unswitched audio). The TX audio went straight into the Mic. input. It can do 90 watts, but we have it set lower.

This is the best digi I have ever seen It is highly resistant to receiver desense and cost us less than one of the MFJs.

BTW-
My experiences with the Ramsey kit show that it is unsuitable for digipeater use if any other high band equipment is present nearby. Someone loaned us one to "get us through" a period of time while the Motorola was being tuned up.

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info
Another ATV and GPS Balloon Flight coming up soon from Atlanta, GA
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

77. Re: [APRSSIG:3651] APRS and LOGITECH STATIONARY MOUSE (Trackball)

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Wed, 4 Oct 1995 15:30:11 -0400
To: aprssig@tapr.org
Message-ID: <199510041930.PAA02889@dylan.mindspring.com>
Rendered body type: text/plain

According to Bob, APRS responds to only a *Microsoft Mouse on COM1*

The other person, who said he got a non-logitech mouse to work, must have been using a Microsoft mouse. Bob reads the serial data directly and doesn't support a mouse driver.

Ralph Fowler

```
t 12:24 AM 10/4/95 -0500, you wrote:
>After much experimentation I have not yet gotten APRS to properly
>respond to my LOGITECH trackball. If anyone is successfully using
>a LOGITECH Trackball with APRS I would appreciate some info on what
>driver and settings you are using. My setup is a 386SX Clone with a Model
>T-CC2-9F TrackMan Stationary Mouse running APRS ver. 7.3C.
>Thanks much.
>
```

78. KANTRONICS APRS PORT SPLITTER

From: DDOBBINS@aol.com
Date: Wed, 4 Oct 1995 16:52:00 -0400
To: aprssig@tapr.org
Message-ID: <951004165159_36426462@emout04.mail.aol.com>
Rendered body type: text/plain

As mentioned in Greg LaBorde's msg to the SIG, Kantronics now has their own port splitter cable for APRS operations. They call it, surprisingly, the "APRS Cable". How original!

It's available now from Kantronics, and works with all their TNC's. Remember, you don't need a TNC w/GPS support unless you want to go standalone mobile. You can still have an old TNC and use Bob's port-splitter described in the APRS GPS.TXT ReadMe file, or now for \$29.95 you can get one pre-made from Kantronics. Add \$5.00 for S/H, and TAX if you live in MO, KS, MN, OH, IL, NE or SD. If you have a question regarding the APRS CABLE, you can call Suzi at Kantronics, 913-842-7745.

Of note, I have to pay \$10.00 S/H for delivery to Hawaii. But then, they'll deliver it to me on the beach, where I'm headed right now for more sun. Aloha, Dave.

79. Re: [APRSSIG:3572] Subscribe/Unsubscribe Problems

From: rwf <rwf@mindspring.com>
Date: Wed, 4 Oct 1995 17:19:44 -0400
To: aprssig@tapr.org
Message-ID: <199510042119.RAA24795@dylan.mindspring.com>
Rendered body type: text/plain

I think the message shown below is incorrect. Subscribe Aprssig doesn't work. You get an error msg. As I always thought. it has to be subscribe aprssig firstname lastname

```
At 09:30 AM 9/29/95 -0500, you wrote:
>Hi All:
>
>Here's the file I send to anyone with subscribe/unsubscribe problems.
>It's simple, except to those who don't know how to do it.
>
>- - - - -
>
>To subscribe to the APRS Sig (aprssig):
>
>Send an email message to listserv@tapr.org, TAPR's robot mail distributor:
>
>The single line of text:      subscribe      aprssig
>
>That's all! The listserver robot will send to your email address all email
>messages addressed to aprssig@tapr.org.
>
>*****
>To un-subscribe to the APRS Sig (aprssig):
>
```

```

>Send an email message to listserv@tapr.org
>
>The single line of text:      signoff   aprssig
>
>*****
>Caveats:
>
>When you subscribe, you'll receive an email from the listserver explaining
>some extra options you may use. Don't delete that file!
>
>No one else can subscribe or un-subscribe you. The sender's email address is
>used by the robot to turn on or turn off the forwarding to you.
>
>
>73
>Jess Girard   ND1L
>
>*****
>Internet:  email text      girardj@delphi.com  (note the "j")
>            text or data    girard@panix.com   or   girard@netcom.com
>            anonymous ftp    ftp.netcom.com    (/pub/gi/girard/jess)
>*****
>
>
>
>
>
>

```

80. RE: [APRSSIG:3645] MFJ data radio

From: Ken Wolfe <us005373@interramp.com>
 Date: Wed, 4 Oct 1995 17:37:11 -0400
 To: "'aprssig@tapr.org'" <aprssig@tapr.org>
 Message-ID: <01BA928F.9740E0A0@ip43.philadelphia.pa.interramp.com>
 Rendered body type: text/plain

Bob,

I bought one a couple of months ago.....rocked it for 145.79 <easy tuneup>
 and connected it to my KPC-3.....it has worked flawlessly since then.
 I can only get 3.5 watts out of it though, a call to MFJ confirms this <I don't
 have a perfect antenna match...> The front end is VERY selective, beating out several other radios I
 have tried. I have a commercial tower within 1/8 mile, and have always had receiver problems with
 pagers and whatever...this
 radio is not bothered by the RF. 8-). I have a freq. counter set up to monitor my outputs from
 various transmitters.....and this cheap radio is more
 stable than any synthesized rig I own!

Good luck and have fun,

Ken N3MQV
 us005373@interramp.com

 From: Bob Bruninga[SMTP:bruninga@nadn.navy.mil]
 Sent: Tuesday, October 3, 1995 9:25 PM
 To: aprssig@tapr.org
 Subject: [APRSSIG:3645] MFJ data radio

As I posted a week or so ago, I special ordered 5 MFJ 5 watt Data radios
 via my local amateur radio dealer. I paid list price of \$119 per radio
 and \$14.95 each additional to have them DELIVERED on 145.79. I got the
 box tonight, read the manual (yes I did!), and popped off the cover.

I am pleased with what I see. Now all I gotta do is find a TNC with true
 DCD and cable it up for some on air tests. The manual does warn that
 this amateur product should not be expected to operate in a commercial
 repeater site with comparable \$1000 radios...

Mine will be remotely located at isolated digipeater sites, but I will
 add a thermostat and heater to keep it somewhat temperature stable...

More later when I get them on the air. Weeks or more probably...

81. WANTED - 2M RADIO FOR APRS

From: DDOBBINS@aol.com
 Date: Wed, 4 Oct 1995 20:40:49 -0400
 To: APRSSIG@tapr.org

Message-ID: <951004204023_36623483@mail04.mail.aol.com>
Rendered body type: text/plain

The availability of a 2M commercial radio for conversion to an APRS digi on 145.79 is slim to none here in the Islands, so I'm asking the mainlanders to help me find a Motorola Mitrek or similar radio, about 30w out, for SUPER CHEAP that we can re-crystal and retune to 145.79. We're expecting an influx of new APRS users here on Oahu after the successful PacCon95 mtg last week, and besides, it's time to move from a more busy freq (145.05) to a dedicated APRS freq. Enuf preaching to the choir. I'd appreciate help in locating a good condition radio, and price is an object. Perhaps someone has an extra lying around???? OK, back to the beach. Aloha, Dave.

82. Re: [APRSSIG:3645] MFJ data radio

From: BAIRDBAIRD@aol.com
Date: Wed, 4 Oct 1995 20:51:28 -0400
To: aprssig@tapr.org
Message-ID: <951004205126_36631221@mail02.mail.aol.com>
Rendered body type: text/plain

I' was also investigating the MFJ data radio. Am curious to see how it works out for you.
The Maxon unit is similarly priced, but the Radio Shack HTX-202 is \$199 on sale and has tunable band. What is the advantage of a "data radio" over a typical 2meter HT?
Is the FM signal different or more stable or anything? -k- N3MKP

83. Re: [APRSSIG:3662] APRS & DFing

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 4 Oct 1995 21:16:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951004211539.17730B-100000@greatlakes>
Rendered body type: text/plain

On Wed, 4 Oct 1995, Dick Mead wrote:

>

> I seem to recall someone (Bob or Keith?) explaining a method of using
> aprs in a DFing situation where a direction may not be known, but a
> relative signal strength (or lack of) could be plotted. It involved
> intersecting circles, or a gap, or something. Could whomever please
> repost or restate this? Thanks

It is all discribed in APRS\README\DF.txt and you can see it by loading the backup file DF-OMNI.BK and then hit the MAPS-PLOTS-DF command...

84. Re: [APRSSIG:3671] Re: MFJ data radio

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 4 Oct 1995 21:31:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951004213051.17730G-100000@greatlakes>
Rendered body type: text/plain

On Wed, 4 Oct 1995 BAIRDBAIRD@aol.com wrote:

> The Maxon unit is similarly priced, but the Radio Shack HTX-202 is \$199 on
> sale and has tunable band. What is the advantage of a "data radio" over a
> typical 2meter HT?

ANSWER: It is 9600 baud capable right out of the box....

85. 73c bugs.. Last chance

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 4 Oct 1995 21:34:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951004213147.17730H-100000@greatlakes>
Rendered body type: text/plain

Stations report the following three bugs:

- 1) The A-LIST doesnt work.
- 2) The blue station circle does not work on the NEXT-WX station command
- 3) It doesnt beep on new BEACONS...

Last chance to tell me more, then ill compile 73d...

86. Packet statistics for the PC

From: n2czf@gate.net
Date: Wed, 4 Oct 1995 22:18:09 -0400
To: aprssig@tapr.org

Message-ID: <199510050218.WAA52268@tequesta.gate.net>
Rendered body type: text/plain

After recent discussions locally with some APRS users and one in particular who is writing his own packet statistics program I went searching for one. Keith has a wonderful program for the Mac that he wrote many years ago but not owning a Mac I was in a bind.

I have found on the TAPR ftp site MONAX.ZIP under the UTIL sub-directory. This program is no frills and very old (1987 hi hi) but it seems to be working so far gathering data. Many have been joining the sig discussion on channel usage esp. on VHF with the growing number of APRS users each day. If you have a TNC that can go into the KISS mode and interested try this program out. Do read the DOC.DOC file FIRST, if you thought APRS was unfriendly at the begining you ain't seen nutting yet!

Is there anyone reading this message that is good with EXCEL and importing raw data to create charts and graphs ? This program will also give you a file so you can do this, Lotus 1-2-3 was mentioned (what is that?? hi hi) but I am sure EXCEL can use this file also.

Let the sig know of any results...
73's Rich
n2czf@gate.net

87. Commercial Surplus Radios for Digis

From: rwf <rwf@mindspring.com>
Date: Wed, 4 Oct 1995 22:25:47 -0400
To: aprssig@tapr.org
Message-ID: <199510050225.WAA10983@dylan.mindspring.com>
Rendered body type: text/plain

Oh yeah... and I forgot to mention...

The Mitrek is 9600 data ready as well.

MOAMPS (the Missouri ?? ???? Packet ????) group was building a network of them across MO for packeteers. I got to see a great presentation from them at the TAPR annual meeting about 3 years ago.

We are using a UHF one for a 9600 baud full duplex packet repeater.

The MFJ (or Ramsey) is proly a great little radio for the house, but *please* don't put one at a commercial site. Use only commercial radios *with* bandpass filters. Some sites may even require use of an "RF Isolator" as well. It is good practice. Let's keep our commercial hosts happy with us.

Ralph

"We're gonna get nailed by Opal in Atlanta tomorrow morning"

88. Re: [APRSSIG:3674] 73c bugs.. Last chance

From: rwf <rwf@mindspring.com>
Date: Wed, 4 Oct 1995 22:28:20 -0400
To: aprssig@tapr.org
Message-ID: <199510050228.WAA11391@dylan.mindspring.com>
Rendered body type: text/plain

At 08:57 PM 10/4/95 -0500, you wrote:
>Stations report the following three bugs:
>1) The A-LIST doesnt work.
>2) The blue station circle does not work on the NEXT-WX station command
>3) It doesnt beep on new BEACONS...
>
>Last chance to tell me more, then ill compile 73d...
>
>
>

89. Re: [APRSSIG:3673] Re: MFJ data radio

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Wed, 04 Oct 1995 23:01:55 -0400
To: aprssig@tapr.org
Message-ID: <199510050306.XAA12577@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 08:56 PM 10/4/95 -0500, you wrote:
>
>On Wed, 4 Oct 1995 BAIRDBAIRD@aol.com wrote:
>
>> The Maxon unit is similarly priced, but the Radio Shack HTX-202 is \$199 on
>> sale and has tunable band. What is the advantage of a "data radio" over a
>> typical 2meter HT?
>
>ANSWER: It is 9600 baud capable right out of the box....
>

How close are we to 9600 baud packet data networks for APRS? A month?
a year? a decade? ever? It could be a capability that won't be
useful for a long time.

Bob Kirk
N30ZB

90. Re: [APRSSIG:3678] Re: MFJ data radio

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 4 Oct 1995 22:46:58 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199510050346.WAA22988@solar.cs.tamu.edu>
Rendered body type: text/plain

Robert Kirk sez:

>
> How close are we to 9600 baud packet data networks for APRS? A month?
> a year? a decade? ever? It could be a capability that won't be
> useful for a long time.

If one were to go buy a 9600 baud modem from PacComm (or from Kantronics with
some trepidation) one could do that pretty quickly. I know. I've got one up
here for the University.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

91. APRS maps of Washington State

From: tedant@ke6et.clark.net (Theodore Antanaitis)
Date: Wed, 04 Oct 95 23:47:00 EDT
To: aprssig@tapr.org
Message-ID: <2ccHcD1w165w@ke6et.clark.net>
Rendered body type: text/plain

Is anyone else developing or considering developing APRS maps of
the Central Washington State area?
Specifically, Kittitas, Klickitat, Benton, and Yakima county areas.

I have created two fairly complete maps of Northern Yakima county/
Southern Kittitas county, and the Greater Yakima area that have not
yet been released.

Maps are a lot of work so would appreciate coordination/colaboration
if anyone else is interested in this area.

Originated at the ARN BBS in Annapolis MD USA. 1 410 280-2503
>From tedant@ke6et.clark.net - [Theodore Antanaitis]

92. Re: [APRSSIG:3679] Re: MFJ data radio

From: Chip <quarry@q.continuum.net>
Date: Thu, 5 Oct 1995 02:13:57 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.951005021348.20151B-100000@q.continuum.net>
Rendered body type: text/plain

On Wed, 4 Oct 1995, Gerald J Creager wrote:

> Robert Kirk sez:
>
>> How close are we to 9600 baud packet data networks for APRS? A month?
>> a year? a decade? ever? It could be a capability that won't be
>> useful for a long time.
>

```
> If one were to go buy a 9600 baud modem from PacComm (or from Kantronics with
> some trepidation) one could do that pretty quickly. I know. I've got one up
> here for the University.
>
> 73, gerry
> --
> Gerry Creager N5JXS * SAREX Co-Investigator
> gerry@cs.tamu.edu * A little radio that lets kids talk
> * to astronauts, and smile
> *****
>
```

Chip Griffin - SysOp of the Quarry (203-889-6427)
President of Thames River Apple Users Group

```
-----+-----
quarry@q.continuum.net | n1mie@n1okk.ct
griffge@nu.net | Chip@1:320/301.0
-----+-----
http://q.continuum.net/~quarry/
```

93. Re: [APRSSIG:3679] Re: MFJ data radio

From: Chip <quarry@q.continuum.net>
Date: Thu, 5 Oct 1995 02:21:05 -0400 (EDT)
To: Gerald J Creager <gerry@cs.tamu.edu>
Cc: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.951005021412.20151C-100000@q.continuum.net>
Rendered body type: text/plain

On Wed, 4 Oct 1995, Gerald J Creager wrote:

```
> If one were to go buy a 9600 baud modem from PacComm (or from Kantronics with
> some trepidation) one could do that pretty quickly. I know. I've got one up
> here for the University.
```

I think I'd stick with Kantronics at this point. A few months ago, when they said they were real close to completion, I ordered a PicoPacket w/ serial & battery option. I'll have to look up the exact date, but 3-4 weeks have turned into months and I haven't heard anything (despite a couple of message to inquire the status). Now I haven't been billed for anything yet, and I know Kantronics Tech Support isn't known for it's excellence, but at least I haven't had a vaporware problem with Kantronics. (BTW I have NOT been billed for what I haven't gotten, but I haven't gotten the expected merchandise.)

In the meantime I explored, and invested in, a solution another reader on the list mentioned. I bought a PCMCIA (PC Card) Module for my PB520 and a Socket PCMCIA to Serial I/O card, thus giving me the ability to use both the GPS (Garmin) and TNC (KPC-3) on the single serial port Mac at the same time. I am real happy with the setup. The only complaint is that you must totally shutdown the computer to swap the battery for the PCMCIA module (rather than just sleeping), but this is relatively minor as bootup is only a short time.

PS - sorry for the previous post, I noticed that I was sending it to the list twice and in the process of cancelling it to retry I accidentally sent the message. My appologies to everyone who pays to get their mail ...

Chip Griffin - SysOp of the Quarry (203-889-6427)
President of Thames River Apple Users Group

```
-----+-----
quarry@q.continuum.net | n1mie@n1okk.ct
griffge@nu.net | Chip@1:320/301.0
-----+-----
http://q.continuum.net/~quarry/
```

94. Re: Mail failure

From: Chip <quarry@q.continuum.net>
Date: Thu, 5 Oct 1995 04:27:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.951005042430.20912A-100000@q.continuum.net>
Rendered body type: text/plain

On Thu, 5 Oct 1995 POSTMASTER@redriver.ksc.nasa.gov wrote:

```
>
> [002] Mail was received that was addressed to unknown addresses.
> Mail item was not delivered to:
> PAYLOADS/REDRIVER/nguyent
>
```

Well, I see we still haven't fixed this problem. Is there anyone out there paying attention who has the ability to correct this. One would only know about it if you post, since it replies to the sender vice the listserver. If we can't do this remotely, there must be someone who controls the listserver who can disconnect this non-person ...

Chip Griffin - SysOp of the Quarry (860-889-6427)
President of Thames River Apple Users Group

-----+-----
quarry@q.continuum.net | n1mie@n1okk.ct
griffge@nu.net | Chip@1:320/301.0
-----+-----

<http://q.continuum.net/~quarry/>

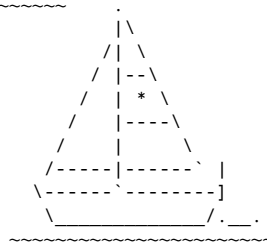
95. Re: [APRSSIG:3674] 73c bugs.. Last chance

From: paul@paccomm.com (Paul Evans, W4/G4BKI)
Date: Thu, 05 Oct 95 09:01:14 UTC
To: aprssig@tapr.org
Message-ID: <7381@paccomm.com>
Rendered body type: text/plain

DR still doesn't work properly!

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com  
+(813) 874-2980 Fax:+(813) 872-8696  
PacComm Packet Radio Systems  
4413 N. Hesperides St., Tampa, FL 33614-7618  
Views are personal, not those of employer

Don't surf the net, SAIL it!  
Captain of S/V "Spindrift", Dunedin, FL.  
Catalina 36: Tall rig (58'), Winged Keel (4' 2")  
Full batten main, Boston Whaler dinghy.



---

## 96. Re: [APRSSIG:3668] Re: Subscribe/Unsubscribe Problems

From: N9VJQ@aol.com  
Date: Thu, 5 Oct 1995 09:19:05 -0400  
To: aprssig@tapr.org  
Message-ID: <951005091904\_116731244@mail02.mail.aol.com>  
Rendered body type: text/plain

I think the correct way to subscribe to aprssig is:  
send an email message to  
listproc@tapr.org  
in the body of the message type:  
subscribe aprssig <firstname lastname>  
I believe it's LISTPROC, not LISTSERV

In a message dated 95-10-04 17:31:27 EDT, you write:

>I think the message shown below is incorrect. Subscribe Aprssig doesn't  
>work. You get an error msg. As I always thought, it has to be  
>subscribe aprssig firstname lastname

>At 09:30 AM 9/29/95 -0500, you wrote:

>>Hi All:

>>

>>Here's the file I send to anyone with subscribe/unsubscribe problems.

>>It's simple, except to those who don't know how to do it.

>>

>>- - - - -

>>

>>To susbcribe to the APRS Sig (aprssig):

>>

>>Send an email message to listserv@tapr.org, TAPR's robot mail distributor:

>>

>>The single line of text:        subscribe    aprssig

>>

>>That's all! The listserver robot will send to your email address all email

>>messages addressed to aprssig@tapr.org.

>>

>

>>\*\*\*\*\*  
\*

>>To un-subscribe to the APRS Sig (aprssig):

>>

>>Send an email message to listserv@tapr.org

```

>>
>>The single line of text:      signoff   aprssig
>>
>
>>*****
*
>>Caveats:
>>
>>When you subscribe, you'll receive an email from the listserver explaining
>>some extra options you may use. Don't delete that file!
>>
>>No one else can subscribe or un-subscribe you. The sender's email address
is
>>used by the robot to turn on or turn off the forwarding to you.
>>
>>
>>73
>>Jess Girard   ND1L
>>
>
>>*****
*
>>Internet:  email text      girardj@delphi.com (note the "j")
>>            text or data    girard@panix.com   or   girard@netcom.com
>>            anonymous ftp    ftp.netcom.com    (/pub/gi/girard/jess)
>
>>*****
**
>>
>>
>>

```

---

## 97. Re: [APRSSIG:3678] Re: MFJ data radio

From: Bob Bruninga <bruninga@nadn.navy.mil>  
 Date: Thu, 5 Oct 1995 09:37:14 -0400 (EDT)  
 To: aprssig@tapr.org  
 Message-ID: <Pine.SUN.3.91.951005093408.21901A-100000@greatlakes>  
 Rendered body type: text/plain

On Wed, 4 Oct 1995, Robert Kirk wrote:

```

> >> .... What is the advantage of a "data radio" over a typical 2meter HT?
> >ANSWER: It is 9600 baud capable right out of the box....
>
> How close are we to 9600 baud packet data networks for APRS? A month?
> a year? a decade? ever? It could be a capability that won't be
> useful for a long time.

```

ANSWER #2. Yes, I agree, I see no neartime move to 9600, but I m still using radios I bought 15 years ago. If we are not all using 9600 ten years from now, then we are all in trouble, hi hi...

---

## 98. WX Blue Box

From: Bob Bruninga <bruninga@nadn.navy.mil>  
 Date: Thu, 5 Oct 1995 09:45:43 -0400 (EDT)  
 To: aprssig@tapr.org  
 Message-ID: <Pine.SUN.3.91.951005094134.21901C-100000@greatlakes>  
 Rendered body type: text/plain

On Thu, 5 Oct 1995, William Nolle wrote:

```

> Bob everytime a WX beacon comes in it opens the liittle blue window on to
> is this new or what.?.

```

If you use the NEXT-WX key to cycle through to a given WX station, it will be displayed at the top of the screen. From then on, whenever a new WX report comes in from \*that\* station, then that station should be displayed at the top of the screen in the blue box.. And only that station, unless you change it by pressing N again.. To disable the function, press N until the box goes away...

This is the way it has always worked. If you are seeing something different, let me know ASAP. Thanks...

---

## 99. Re: [APRSSIG:3684] Re: 73c bugs.. Last chance

From: Bob Bruninga <bruninga@nadn.navy.mil>  
 Date: Thu, 5 Oct 1995 09:51:07 -0400 (EDT)  
 To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.951005094937.21901D-100000@greatlakes>

Rendered body type: text/plain

On Thu, 5 Oct 1995 paul@paccomm.com wrote (quoted in its entirety):

> DR still doesn't work properly!

APR REPLY: Hummh, anyone have any idea what Paul is talking about?

---

## 100. Re: [APRSSIG:3679] Re: MFJ data radio

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>

Date: Thu, 05 Oct 1995 10:15:17 -0400

To: aprssig@tapr.org

Message-ID: <199510051419.KAA14610@neptune.gsfc.nasa.gov>

Rendered body type: text/plain

At 23:00 10/4/95 -0500, you wrote:

>Robert Kirk sez:

>>

>> How close are we to 9600 baud packet data networks for APRS? A month?

>> a year? a decade? ever? It could be a capability that won't be

>> useful for a long time.

>

>If one were to go buy a 9600 baud modem from PacComm (or from Kantronics with  
>some trepidation) one could do that pretty quickly. I know. I've got one up  
>here for the University.

>

>73, gerry

>--

>Gerry Creager N5JXS

\* SAREX Co-Investigator

>gerry@cs.tamu.edu

\* A little radio that lets kids talk

>

\* to astronauts, and smile

>\*\*\*\*\*

Gerry... (or anyone else), I understand that 9600 hardware is at hand, but my real question is, what is the outlook for significant high speed networking, especially with APRS?

Hardwire networking swiftly went from 300 to 1200 to 2400, on up to 28.8 just as quickly as the manufacturers could crank out the improvements. Largely, I think, because they maintained downward compatibility for two way hookups. But in radio we have the problem of multicasting packets, and the slow guys can't copy the faster ones. And there is a large installed base of we slowpokes and no analogs of nodes to convert between T3, T1, phone line, etc.

Does the operator with 9600 have to be content to throttle down to participate with the rest of the world and save the high speed for small dedicated QSO's? Do you see a quick conversion to 9600 and the old TNC's relegated to the junk box? I'm sure the TNC makers hope so. Shorter (time wise) packets would help QRM on APRS, but we don't seem to be near saturation yet. On the other hand, it wouldn't seem to help Bob B's problem with WIDE,WIDE, WIDE packets cancel ling each other.

I guess the thing that would kick off wide 9600 acceptance for APRS would be a small network of 9600 ONLY stations. Perhaps at it's own freq, and repeated at slow speed on .79. If it's successful: higher throughput at significantly higher effective speed, people would be tempted to convert. (Is there a problem trying to talk to your GPS @ 4800 and the world @9600?)

Cheers,

Bob Kirk  
N30ZB

---

## 101. Re: [APRSSIG:3685] Re: Subscribe/Unsubscribe Problems

From: Greg Jones <gjones@tenet.edu>

Date: Thu, 5 Oct 1995 09:29:27 -0500 (CDT)

To: aprssig@tapr.org

Message-ID: <199510051429.JAA01100@Leslie-Francis.tenet.edu>

Rendered body type: text/plain

Hello -- here is the information on the listserv.

Also -- if you have a problem with getting off, you should contact Keith Sproul or who ever Keith has handling this issue, since Keith is the Chair of the TAPR APRS SIG. The SIG Chair is responsible for these issues.

To unsubscribe, you just send e-mail to 'listserv@tapr.org' and in the message say

unsubscribe aprssig The problem happens when you switch providers and do not unsubscribe before the move. The list system we use (a freeware version) looks at the incoming message based on your sunscribed account, so if you change -- you no longer are at the other account. If this happnes you have to contact the SIG chair to correct the siutation.

Cheers - Greg  
----

Greetings from TAPR!

TAPR can be reached via the Internet. The Automated Information Server that TAPR provides allows anyone to request information on TAPR, products, newsletters, and lots of other files. To find out more about this service, send an e-mail message to [listserv@tapr.org](mailto:listserv@tapr.org) with the subject line "Request" and the following text in the body of the message:

```
help                (for a brief set of instructions)
index -all          (for a list of all file by topic area)
list                (for a list of TAPR Mail Groups)
get tapr taprinfo.txt (or info on TAPR)
```

In the above message example, "help" retrieves a brief set of instructions for info, "index -all" retrieves a list of available files by topic and "taprinfo.txt" retrieves a text file containing information on TAPR and what TAPR is all about. If you want to retrieve several text files with one message, use a separate line for each "get filename" request.

-----

#### Special Interest Groups

TAPR maintains several SIGs in various areas. To get the latest list of SIG groups, send an e-mail message to [listserv@tapr.org](mailto:listserv@tapr.org) with the subject line "Request" and the following text in the body of the message:

```
list                (for list of mail groups on TAPR.ORG)
```

To request the information on any mail group, send an e-mail message to [listserv@tapr.org](mailto:listserv@tapr.org) and in the message text include:

```
information listname (where listname is the name of the mail group)
```

When you are ready to subscribe, send e-mail to [listserv@tapr.org](mailto:listserv@tapr.org) with the following command in the message text:

```
subscribe <list> <your name>
```

List should be the name of the mail list you want to join and Your Name should be both your First and Last Name. BE SURE NOT TO USE THE "<" and ">" in your message. Example: subscribe aprssig John Jones

Current SIGs include:

|          |                                                        |
|----------|--------------------------------------------------------|
| NETSIG   | Regional Networking SIG                                |
| BBSSIG   | BBS SIG                                                |
| HFSIG    | SIG on HF Digital Topics                               |
| DSP-93   | SIG for those that are building TAPR/AMSAT DSP-93 kits |
| APRSSIG  | SIG on APRS                                            |
| TAPR-TNC | SIG on TNC Issues                                      |

|         |                                                         |
|---------|---------------------------------------------------------|
| TAPR-BB | Announcement channel for TAPR bulletins and information |
|---------|---------------------------------------------------------|

-----

#### FTP users

The TAPR Software Library is now available via anonymous FTP. You can access the library by ftp access to 'ftp.tapr.org' in the directory /tapr. Login in as 'anonymous', with a password of 'your\_account@internet\_address'.

-----

Packet Raido and TAPR is on the World-Wide-Web!

The series is accesible through the Packet Radio Home Page at this URL:

<http://www.tapr.org>

What's here? A page of links (the Home Page), the TAPR Home Page, a page of Packet Pioneers and Contacts, a hypertext packet primer and FAQ, and more.

-----  
Tucson Amateur Packet Radio  
8987-309 E. Tanque Verde Road #337  
Tucson, AZ 85749-9399  
817-383-0000 (Tuesday - Friday 9:00-11:00am, 3:00-5:00pm CT)  
(15:00-17:00, 21:00-23:00 UTC)  
817-566-2544 FAX

Internet: TAPR@TAPR.ORG  
-----

>  
>  
>

---

## 102. Re: [APRSSIG:3689] Re: 9600 baud ramblings...

From: jan@archimedes.vislabs.navy.mil (Jan A. Barglowski)  
Date: Thu, 5 Oct 1995 08:19:55 -0700  
To: aprssig@tapr.org  
Message-ID: <v01520d06ac9942d6b67a@[129.131.31.10]>  
Rendered body type: text/plain

My mailer couldn't figure out who wrote this...  
>Does the operator with 9600 have to be content to throttle down to participate  
>with the rest of the world and save the high speed for small dedicated QSO's?  
>Do you see a quick conversion to 9600 and the old TNC's relegated to the  
>junk box? I'm sure the TNC makers hope so. Shorter (time wise) packets  
>would help QRM on APRS, but we don't seem to be near saturation yet.  
>On the other hand, it wouldn't seem to help Bob B's problem with WIDE,WIDE,  
>WIDE packets cancel ling each other.  
>  
>I guess the thing that would kick off wide 9600 acceptance for APRS would  
>be a small network of 9600 ONLY stations. Perhaps at it's own freq, and  
>repeated at slow speed on .79. If it's successful: higher throughput at  
>significantly higher effective speed, people would be tempted to convert.  
>(Is there a problem trying to talk to your GPS @ 4800 and the world @9600?)  
>

I live in an interesting area, for both 9k6 baud and APRS. This is a geographically isolated, technical community of about 50,000 people (China Lake), and there is quite a bit of packet activity. As the sysop of the local BBS, I did the first 9k6 nodes in our area to give us a higher-speed link towards Los Angeles. Although I chose a "user" frequency, and I heavily advertised the fact that you could login at 9k6 baud to the BBS, it wasn't until almost 6 months later someone else here used 9k6 baud! Almost 2 years later, we have 4 people on 9k6 baud. Coincidentally, the people who have experimented with TCP/IP, 9k6, and APRS are pretty much the same people!

Due to this, I am seriously considering switching the APRS activity to our 9k6 channel (it's way easy to do that with only 4 people :-). The only problem would be our mobiles, who don't have 9k6 capability. I may look into getting a Kantronics 9612, which could do both 1k2 and 9k6 simultaneously, and digipeat between the two channels. This may be the way to go for some areas, I'd think. Hmmm...the digi aliases would be interesting to setup, huh?

>Cheers,  
>  
>Bob Kirk  
>N30ZB

73, jan  
kc6uth

---

## 103. True DCD TNC ?

From: seront@seism1.ess.sunysb.edu (Bernard Seront)  
Date: Thu, 05 Oct 1995 11:33:25 -0500  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <9510051533.AA07896@seism1.ess.sunysb.edu>  
Rendered body type: text/plain

At 08:34 PM 10/3/95 -0500, Bob Bruninga wrote:  
>As I posted a week or so ago, I special ordered 5 MFJ 5 watt Data radios



>...  
>I am pleased with what I see. Now all I gotta do is find a TNC with true  
>DCD and cable it up for some on air tests.

Is True DCD really an option to improve efficiency of the network? TAPR is  
selling a small board that fits in almost every TNC to provide true DCD and  
unspelled operation (info at: <http://www.tapr.org/tapr/html/dcd.html>) for 20\$.  
We should consider this option, any comment?

Bernard, KB2TGH.

---

## 104. Re: Subscribe/Unsubscribe Problems

From: Per Molund <per@proact.no>  
Date: Thu, 5 Oct 1995 18:33:54 +0100 (MET)  
To: aprssig@tapr.org  
Message-ID: <Pine.PCW.3.91.951005182230.8431A-100000@gruff>  
Rendered body type: text/plain

The correct way to subscribe should be to send mail to:

listproc@tapr.org

the body should read (not Subject:)

subscribe aprssig address

The address are your email address, not your name. My initial subscription  
request was sent to listserv, but I think it should really be addressed  
to listproc as N9VJQ states here. For more info you could email listproc  
with only HELP in the message body and all info regarding subscribing,  
changing address and unsubscribing will be returned.

---per

On Thu, 5 Oct 1995 N9VJQ@aol.com wrote:

> I think the correct way to subscribe to aprssig is:  
> send an email message to  
> listproc@tapr.org  
> in the body of the message type:  
> subscribe aprssig <firstname lastname>  
> I believe it's LISTPROC, not LISTSERV  
>  
>  
> In a message dated 95-10-04 17:31:27 EDT, you write:  
>  
> >I think the message shown below is incorrect. Subscribe Aprssig doesn't  
> >work. You get an error msg. As I always thought. it has to be  
> >subscribe aprssig firstname lastname  
>  
> >At 09:30 AM 9/29/95 -0500, you wrote:  
> >>Hi All:  
> >>  
> >>Here's the file I send to anyone with subscribe/unsubscribe problems.  
> >>It's simple, except to those who don't know how to do it.  
> >>  
> >>- - - - -  
> >>  
> >>To subscribe to the APRS Sig (aprssig):  
> >>  
> >>Send an email message to listserv@tapr.org, TAPR's robot mail distributor:  
> >>  
> >>The single line of text:       subscribe     aprssig  
> >>  
> >>That's all! The listserver robot will send to your email address all email  
> >>messages addressed to aprssig@tapr.org.  
> >>  
> >>  
> >>\*\*\*\*\*  
> \*  
> >>To un-subscribe to the APRS Sig (aprssig):  
> >>  
> >>Send an email message to listserv@tapr.org  
> >>  
> >>The single line of text:       signoff     aprssig  
> >>  
> >>  
> >>\*\*\*\*\*  
> \*

```

> >>Caveats:
> >>
> >>When you subscribe, you'll receive an email from the listserver explaining
> >>some extra options you may use. Don't delete that file!
> >>
> >>No one else can subscribe or un-subscribe you. The sender's email address
> is
> >>used by the robot to turn on or turn off the forwarding to you.
> >>
> >>
> >>73
> >>Jess Girard ND1L
> >>
> >
> >>*****
> *
> >>Internet: email text girardj@delphi.com (note the "j")
> >> text or data girard@panix.com or girard@netcom.com
> >> anonymous ftp ftp.netcom.com (/pub/gi/girard/jess)
> >
> >>*****
> *
> >>
> >>
> >>
>
>
>

```

---

## 105. Re: [APRSSIG:3664] 73C BUGS?

From: Barbara Fehner <fehner@cts.com>  
 Date: Thu, 5 Oct 95 10:48 PDT  
 To: aprssig@tapr.org  
 Message-ID: <m0t0u0o-000V4JC@mailhub.cts.com>  
 Rendered body type: text/plain

>1) When using the N command, the weather station is no longer circled on the  
 >map as in previous versions.

>  
 The Wx station's last beacon no longer shows up on the bottom status line.

Barbara KK6IB  
 E-Mail: fehner@cts.com

---

## 106. San Diego Map

From: Pat Bunsold <pbunsol@cati.csufresno.edu>  
 Date: Thu, 5 Oct 1995 11:44:14 -0700  
 To: aprssig@tapr.org  
 Cc: keating@nosc.mil  
 Message-ID: <199510051844.LAA04627@CATI.CSUFresno.EDU>  
 Rendered body type: text/plain

The new San Diego APRS map, a very nicely detailed and accurate map by  
 Dave WH6YC, is now available on the Radiosport LL BBS at (619)279-3921.  
 download CA\_SDGO.MAP (about 39K so fast for even 2400 modems!)  
 The new Southwestern California map will also be uploaded as soon as I  
 get a copy. When in San Diego, tune to 145.79 for APRS activity. We have  
 a major WIDE node on Mt Otay giving excellent coverage from Mexico up to  
 many parts of LA. There are some cranks on 145.785 so Orange County  
 activity might see some QRM. Just go QRO! Hopefully we will see a LA  
 area node on 145.79 so there will be continous coverage up the coast.  
 TNX to all on the map for making San Diego a hotbed of APRS activity!  
 73, Pat WA6MHZ, Flinn Springs

---

## 107. Re: [APRSSIG:3692] True DCD TNC ? (and some TXD comments)

From: n4uls@ix.netcom.com (Jack Anderson )  
 Date: Thu, 5 Oct 1995 12:05:54 -0700  
 To: aprssig@tapr.org  
 Message-ID: <199510051905.MAA27408@ix2.ix.netcom.com>  
 Rendered body type: text/plain

You wrote:

>Is True DCD really an option to improve efficiency of the network? TAPR is  
 >selling a small board that fits in almost every TNC to provide true DCD and  
 >unspelched operation (info at: <http://www.tapr.org/tapr/html/dcd.html>) for 20\$.  
 >We should consider this option, any comment?  
 >  
 >Bernard, KB2TGH.

True DCD allows you to run your radio with the squelch open. This cuts the amount of time needed for the sending station to run TXD before actual data is sent. If everyone runs a shorter TXD, the congestion on the channel might be reduced. I've done a lot of testing and have found that TXD as low as 5 (50 msec) works when talking to a radio with true DCD and open squelch.

Of course, the TXD also provides time for the sending transmitter to "ramp up" to the correct frequency and full output power. So, for some radios, extremely low TXD settings may not work. To be safe, I usually run TXD 20 to 30, although I've never found a station that I can't connect to when I'm set at TXD 20, even if the other station is NOT running open squelch and true DCD.

It bothers me when I listen to a packet channel and hear stations that are running excessive TXD. Some stations sound like they are running TXD 100 (a full second of nothing). These people must really like to make sure their rig has plenty of time to crank up and get running in transmit mode. Maybe they are using bicycle power. (Then you get the user that sets CWID ON so his TNC sends his callsign in Morse every 9 minutes, using the high-low modem tones...well, I'll save that for another thread...)

As a general rule, I believe that if the TXD period is audible to the naked ear, it is probably too long. A good test is to listen to a station using a squelched radio. If, after breaking squelch, you can hear the TXD period before actual data is sent, you can safely back the TXD down. In my own tests, I've noticed that backing down the TXD can cut the total on-air time for a typical packet transmission in half, depending on the amount of data being sent. For short protocol packets this is especially true.

Setting short TXDs may have negative effects on throughput though. I remember reading or hearing that everyone on a channel needs to run the same TXD setting or it flubs up AX.25's collision avoidance.

Jack

---

## 108. RE: [APRSSIG:3676] Commercial Surplus Radios for Digis

From: Ken Wolfe <us005373@interramp.com>  
Date: Thu, 5 Oct 1995 16:18:16 -0400  
To: "'aprssid@tapr.org'" <aprssid@tapr.org>  
Message-ID: <01BA933E.EBCDD2E0@ip12.philadelphia.pa.interramp.com>  
Rendered body type: text/plain  
  
The MFJ (or Ramsey)

Ralph

The Ramsey is POOR as a receiver....I tried one and it got swamped from the local pager tower...the MFJ is STABLE with little or no harmonics.....AND, It doesn't get bothered by the pager tower within 1/8 mile of here.

Ken

---

## 109. Re: [APRSSIG:3697] RE: Commercial Surplus Radios for Digis

From: rwf <rwf@mindspring.com>  
Date: Thu, 5 Oct 1995 19:56:06 -0400  
To: aprssid@tapr.org  
Message-ID: <199510052356.TAA16805@dylan.mindspring.com>  
Rendered body type: text/plain

At 04:08 PM 10/5/95 -0500, you wrote:

>

>

>The MFJ (or Ramsey)

>

>

>

>Ralph

>

> The Ramsey is POOR as a receiver....I tried one and it got swamped from the local pager tower...the MFJ is STABLE with little or no harmonics.....AND, It doesn't get bothered by the pager tower within 1/8 mile of here.

>

>Ken

>

>Attachment Converted: C:\MSPRING\EUDOR\APRSSIG3

>

But have you tried the MFJ \*at\* the local pager tower. That is what I am talking about. I'll bet money it won't work at a hostile site.  
But as i said: "It should be fine for the home station" (unless you live at the pager tower :) )

Notice above, in your message, at the bottom. You attached some sort of file. What is that about?  
Do you have something set wrong or do I? No one else's messages do that, but both of yours have.

---

## 110. Re: [APRSSIG:3693] Re: Subscribe/Unsubscribe Problems

From: rwf <rwf@mindspring.com>  
Date: Thu, 5 Oct 1995 19:56:08 -0400  
To: aprssig@tapr.org  
Message-ID: <199510052356.TAA16816@dylan.mindspring.com>  
Rendered body type: text/plain

No, Per. That is not right. See the message from Greg Jones.

Maybe that will put this issue to bed!!

At 12:46 PM 10/5/95 -0500, Per wrote:

```
>
>The correct way to subscribe should be to send mail to:
>
>    listproc@tapr.org
>
>the body should read (not Subject:)
>
>    subscribe aprssig address
>
>The address are your email address, not your name. My initial subscription
>request was sent to listserv, but I think it should really be addressed
>to listproc as N9VJQ states here. For more info you could email listproc
>with only HELP in the message body and all info regarding subscribing,
>changing address and unsubscribing will be returned.
>
>---per
>
>On Thu, 5 Oct 1995 N9VJQ@aol.com wrote:
>
>> I think the correct way to subscribe to aprssig is:
>> send an email message to
>> listproc@tapr.org
>> in the body of the message type:
>> subscribe aprssig <firstname lastname>
>> I believe it's LISTPROC, not LISTSERV
>>
>>
>> In a message dated 95-10-04 17:31:27 EDT, you write:
>>
>> >I think the message shown below is incorrect. Subscribe Aprssig doesn't
>> >work. You get an error msg. As I always thought. it has to be
>> >subscribe aprssig firstname lastname
>>
>> >At 09:30 AM 9/29/95 -0500, you wrote:
>> >Hi All:
>> >
>> >>Here's the file I send to anyone with subscribe/unsubscribe problems.
>> >>It's simple, except to those who don't know how to do it.
>> >>
>> >>- - - - -
>> >>
>> >>To susbcribe to the APRS Sig (aprssig):
>> >>
>> >>Send an email message to listserv@tapr.org, TAPR's robot mail distributor:
>> >>
>> >>The single line of text:      subscribe      aprssig
>> >>
>> >>That's all! The listserver robot will send to your email address all email
>> >>messages addressed to aprssig@tapr.org.
```



Gerry Creager N5JXS  
gerry@cs.tamu.edu

\* SAREX Co-Investigator  
\* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

---

### 113. Beta testers needed

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Thu, 5 Oct 1995 19:30:17 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510060030.TAA14807@solar.cs.tamu.edu>  
Rendered body type: text/plain

conv100d.bas is available for limited (LIMITED!) beta testing. I think it's ready for prime time, but would like a couple of the experienced folks who do 1:100k maps to give it a try.

CONV100D is specifically pointed at DLGs from the USGS FTP site, brought in via internet. It will block the data correctly and then carry the file through to the completion of conv100's normal activities. There are some things it still needs (liek a VB interface :-)) but I don't have time for that right now... maybe next week?

Anyone interested in testing drop me a note at n5jxs@tamu.edu and I'll tell you where to get it. If I get positive feedback I'll post it on TAPR.ORG soon.

73, gerry

--  
Gerry Creager N5JXS  
gerry@cs.tamu.edu

\* SAREX Co-Investigator  
\* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

---

### 114. aprs73d release

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 5 Oct 1995 22:01:50 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951005212421.4418B-100000@greatlakes>  
Rendered body type: text/plain

Again, my FTP site will not accept my KERMIT upload, so I am posting it on 410 280-2503. Will the first person that gets a good download, please FTP it to TAPR? Thanks...

Aside from fixing the A-LIST and NEXT-WX command that got broke somewhere, I just added a neat feature. It allows you to repsond to messages while driving with 3 single KEYSTROKES!

\* F2 is now a REPLY command. It will grab the FROM call from the last message and begin a new message to that station and go right to the message prompt.

\* If you enter a SINGLE DIGIT number as a message text, APRS will copy the text from the Nth existing SEND message on your screen... (as long as that message does NOT have an \*ACK\* on it...)

\* ENTER. This KEY will send the message...

To facilitate this capability, I have also made APRS IGNORE any message sent to MSG... This means you can preload several common messages that you may want to use while mobile such as:

To MSG :Hi, just passing through on my way to Timbuktoo.  
To MSG :Rig is a peanut whistle, PicoPacket and Garmin GPS  
To MSG :Cant Keyboard while driving, but Im listening to 146.52  
To MSG :CUL, 73. Tnx fer contact. I gotta get back to the wheel...

Then all you gotta do is select from the list. You can even use text from messages sent to others, as long as they have not been ACKED. Gee... and I thought there were no more bells and whistles! Thanks to WB3V for this suggestion...

---

### 115. (no subject)

From: Dwight Smith <dpsmith@westnet.com>  
Date: Thu, 5 Oct 1995 22:34:15 -0400 (EDT)  
To: SIG APRS <aprssig@tapr.org>  
Message-ID: <Pine.SUN.3.91.951005223359.25299E-100000@westnet.com>  
Rendered body type: text/plain

---

**116. RADIO SHACK HTX202**

From: mikem@i-link.net (Mike McKinney)  
Date: Thu, 5 Oct 1995 21:37:33 -0500  
To: aprssig@tapr.org  
Message-ID: <9510060237.AA22522@echo.i-link.net>  
Rendered body type: text/plain

DOES ANYBODY HAVE WIRING INFO TO INTERFACE A RADIO SHACK HTX202 2MTR HT TO A KANTRONICS KPC3?

THANKS IN ADVANCE,  
MIKE, WD5CIY  
AUSTIN, TX

---

**117. 73d on BBS in UPLOAD**

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 5 Oct 1995 23:10:53 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951005230743.4418D-100000@greatlakes>  
Rendered body type: text/plain

Oh, I forgot, the files are:

APRS73d.zip The whole thing (again... hi hi)  
72ato73d.zip If you have 72a or b  
72cto73d.zip if you have 72c or later...

They are in the 410 280-2503 BBS UPLOAD directory until the SYSOP gets them moved over to the APRS directory...

Sorry, but none of these files would KERMIT to my FTP server...

---

**118. Re: [APRSSIG:3705] RADIO SHACK HTX202**

From: Bob Nimmerfroh <rnimmer@netcom.com>  
Date: Thu, 5 Oct 1995 21:30:37 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951005212930.28962A-100000@netcom21>  
Rendered body type: text/plain

On Thu, 5 Oct 1995, Mike McKinney wrote:

> DOES ANYBODY HAVE WIRING INFO TO INTERFACE A RADIO SHACK HTX202 2MTR HT TO A  
> KANTRONICS KPC3?

To connect your HTX-202 to a KPC-3, follow the directions for wiring a Yaesu Hand-Held Radio in the KPC-3 Getting Started booklet (page G8).

Or, if you don't have the booklet, use the diagram below.

```
=====
      TNC                                     Radio
      Audio Out  -----||-----  Tip of Mic plug
                        C1          |
      PTT Line   ----\\//\\-----|  Ring of Mic (not connected)
                        R1
      Audio In   -----  Tip of speaker plug
      Ground    -----  Ring of Speaker plug

      C1 is a 0.1 mfd capacitor of any type, R1 is 2200 ohms.
```

I use the HTX-202 with a KPC-3, and this works for me.

```
=====
Bob Nimmerfroh          on the job: Bob_Nimmerfroh@mx.cmi-ged.com
Woodland Hills, CA     home and fun: rnimmer@netcom.com
                        ham radio: KE6MDJ @ WB6WFH.#SOCAL.CA.USA.NA
```

---

**119. Re: MFJ data radio**

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>  
Date: Thu, 5 Oct 1995 19:15:46 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951005191052.8204A-100000@draco.bison.mb.ca>  
Rendered body type: text/plain

For anyone who is interested, I rigged up a simple squelch circuit for the MFJ data radio using an LM311 comparator chip. This seemed to work ok for the balloon launch but I was unable to test the squelch circuit as much as I would have liked. This circuit would be useful for those who do not have a TNC with DCD squelch.

Those who are interested in the circuit can write me.

Michael

--

Michael Markmann VE4MJM |  
ve4mjm@draco.bison.mb.ca (Internet) | ERROR! REALITY.SYS Corrupted!  
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25) | Reboot UNIVERSE.EXE!  
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...

---

## 120. Re: [APRSSIG:3703] aprs73d release

From: edwardwr@interaccess.com (Edward W Rogers)  
Date: Fri, 06 Oct 1995 07:08:06 -0500  
To: aprssig@tapr.org  
Message-ID: <199510061226.HAA07235@psycfrnd.interaccess.com>  
Rendered body type: text/plain

>Again, my FTP site will not acccept my KERMIT upload, so I am posting it  
>on 410 280-2503. Will the first person that gets a good download,  
>please FTP it to TAPR? THanks...  
>  
Done

Ed  
N9LCI

---

## 121. PK-232 will monitor its own packets

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>  
Date: Fri, 6 Oct 1995 11:07:31 +0000  
To: aprssig@tapr.org  
Message-ID: <199510061506.LAA25338@hemisphere.neocomm.net>  
Rendered body type: text/plain

Hello

I read a message earlier that stated the Pk-232 was not capable of monitoring its own packets. If you turn MXMIT ON all sent packets will be monitored just like recieved packets.

However I see in the startup file in APRS73D MXMIT OFF . So "BOB WB4APR" !help! Does this need to be off?

While talking about tnc's I'll just throw in my opinion on the best and worst that I have experience with.

PK-232 By far the best for picking out the weakest signals. All around the best a lot of money can but.

Paccomm Is my second choice, great support from the people on Florida.

MFJ Well, often exagerated in advertisments, there products somehow escape quality control inspections. Sometimes things like the TNC switches have to be modified because the misalignment of the case in relation to the circuit board prevents use of the provided plug in.( I have seen 5 like this). However Mfj does support Streamdouble or Channel double.

Kantronics Gets last rating only because it does not support Streamdbdouble or ChannelDouble. If you never intend to talk to more than one station at a time and you will never monitor a frequency with binary transfers on it, then the Kantronics will be ok.

BayComm Good buy for cheap substitute/standby/portable.

MfjCommador64 Plug in board The \$50 model In my experience if you get



one that works it will probably last at least a year before a chip goes out.

Stream Double or Channel Double  
(same thing just different manufacturers use different names).

If you do not have this turned on your tnc may interpret binary signals as streamswitching characters. Your tnc would then switch between channels at random. The default stream switch is usually ascii character \$7C or the pipesteam | . With streamdouble on it takes two of these to be recognized as true streamswitching command . Example ||2 or ||A would switch you to your second tnc channel. (Some tnc's use alphabet some use numeric labels for channels) By requiring two of these characters it is less likely a random binary character will bother you. A good software program such as Paket6.1 will automatically insert the two characters for you.

Paket6.1 Shareware program is the best tnc interface I have found. It is available from my home page....

2 cents from Charles in Axton, Virginia

p.s. Does anyone else think there is too much repetition of messages ? For example to give your comments to this mail you don't have to include this whole letter in your reply again and again. Why not reply to Subject PK-232 MXMIT or to My favorite TNC's. Of course if it's needed for clarity please include the original message. 1 more cent worth

Enjoy Ham Radio and The Internet!! Charles  
cdavidso@neocomm.net  
<http://www.neocomm.net/~cdavidso/>  
WB4PAN@WB4Q0J.VA.USA.NOAM

---

## 122. Messages?

From: potomacg@telalink.net (Mike Jackson)  
Date: Fri, 6 Oct 1995 10:30:50 -0500  
To: aprssig@tapr.org  
Message-ID: <199510061530.KAA23189@eden.telalink.net>  
Rendered body type: text/plain

I must have done something stupid, as I haven't gotten any sig messages in over a week now. Can someone help?  
Mike.

--\*\*\*\*\*--  
Mike T. Jackson KD4KSQ  
4819 Jeffery Drive potomacg@medifax.com  
Nashville, Tn 37211-4043 kd4ksq@aol.com  
(615) 331-2706 Home (615) 832-3490 PC  
1-800-846-9035 (138) Work

Forget Windows 95... Windows NT RULES!  
--\*\*\*\*\*--

---

## 123. Re: [APRSSIG:3705] RADIO SHACK HTX202

From: CCVFS.DRAWING@capital.ge.com  
Date: Fri, 6 Oct 1995 12:47:36 -0400  
To: "aprssig(a)tapr.org" <aprssig@tapr.org>  
Message-ID: <0013800001208109000002\*@MHS>  
Rendered body type: text/plain

A prior message stated that they wired the cable for a Yaesu HT, I originally wired mine as an Icom and had no problem either. At a later date I rewired it and left the capacitor and resistors out completely and once again it worked flawlessly.

However when I initially set up the cable it I could 'hear' ok but could not connect. I had to open the tnc and set a jumper that increased the range of the output level adjustment. I don't have a manual here at work but I believe it was J12 or J13. The manual also states that there is a jumper to set for use when using a HT to pull down the ptt line. I tried the jumper in both directions and it really didn't have any effect on operation however I have left it in the 'HT' position.

Hope this helps,  
Dana

Reply Separator

Subject: [APRSSIG:3705] RADIO SHACK HTX202  
Author: aprssig (INTERNET.APRSsig) at SOFTSWITCH  
Date: 10/5/95 11:21 PM

DOES ANYBODY HAVE WIRING INFO TO INTERFACE A RADIO SHACK HTX202 2MTR HT TO A KANTRONICS KPC3?

THANKS IN ADVANCE,  
MIKE, WD5CIY  
AUSTIN, TX

---

## 124. Re: [APRSSIG:3709] Re: aprs73d release

From: n8mwz@alpha.wcoil.com (Bob Hartman)  
Date: Fri, 6 Oct 1995 13:02:25 -0400  
To: aprssig@tapr.org  
Message-ID: <199510061702.NAA09249@alpha.wcoil.com>  
Rendered body type: text/plain

>>Again, my FTP site will not acccept my KERMIT upload, so I am posting it  
>>on 410 280-2503. Will the first person that gets a good download,  
>>please FTP it to TAPR? Thanks...  
>>  
>Done  
>  
>Ed  
>N9LCI

I can only find the file "APRS73D.ZIP" as of 16:36z on 10/6/95.  
Can someone also upload the two upgrade files so that they can  
also be distributed?

Thanks in advance,

```
////////////////////////////////////  
//// Bob Hartman, N8MWZ           Grid Square EN71      ////  
//// Lima, Ohio                   40 45N, 084 06W       ////  
//// <n8mwz@amsat.org>             Member ARRL, AMSAT, &  ////  
//// VHF, UHF, OSCAR 13 {soon}    TAWG #OH89           ////  
////////////////////////////////////
```

---

## 125. Central Illinois Balloon Association HST

From: RonN9QGS@aol.com  
Date: Fri, 6 Oct 1995 13:19:43 -0400  
To: APRSSIG@tapr.org  
Message-ID: <951006131942\_38011466@emout04.mail.aol.com>  
Rendered body type: text/plain

I have a good file of the balloon launch in Illinois, but its not in a HST  
format, at least yet, its in the regular packetd format, MacAPRS reads this  
fine, but DOS versions I don't think can, so if anyone is interested, I can  
send it as a message over the SIG or directly to you...  
Let me know.  
Ron

---

## 126. Re: [APRSSIG:3705] RADIO SHACK HTX202

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Fri, 6 Oct 1995 12:53:48 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130500ac9a63f2a5b0@[199.1.11.153]>  
Rendered body type: text/plain

>DOES ANYBODY HAVE WIRING INFO TO INTERFACE A RADIO SHACK HTX202 2MTR HT TO A  
>KANTRONICS KPC3?  
>  
>THANKS IN ADVANCE,  
>MIKE, WD5CIY  
>AUSTIN, TX  
-----

I just got a MFJ TNC to Radio Cable for kam for \$14.95 from TUCKER.  
Part number MFJ-5024YV ,it works for most ICOM and Yaesu HTs.  
Both ends of the cable are pre-made.

It is like the 2AT style interface on page 100 of the KPC-3 book.  
The Cap is the same 0.1 but the resistor is 3300 Ohms not 3900 Ohms.

Works fine on my HTX-202, HTX-404 and ICOM W21AT

I only need to turn the vol. control on the 202 a bit less than a 1/4 turn  
I use the Software CD on the KPC-3 TNC and put the squelch full  
clockwise for remote tracking and midway for relaying.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

## 127. Data radio 9600 baud

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Fri, 6 Oct 1995 13:17:26 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130502ac9b1fbf507f@[199.1.11.128]>  
Rendered body type: text/plain

I have two HTX-202 units I use for remote tracking and APRS use.  
These unit put out 8+ Watts when powered by 13.5 - 14.00 Volts.  
(The HXT-404 70 cm HT does only 5 Watts.)

For only \$40 more you get a radio you can tune and get a few more watts.  
(Gee, it is even a back up HT)

Think about getting the Radio-Shack extended warrenty if you are going  
to run it a 8 watts as a digipeater.

I also found a 9600 baud mod for the HTX-202.

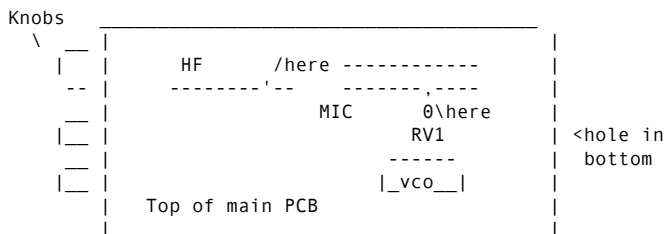
### ----- CONNECTIONS TO REALISTIC HTX-202 FOR 9600 BAUD PACKET

NOTE: The following operation requires soldering in very close quarters  
and damage or destruction of your radio is possible if you get too much  
heat on nearby wires or components, or by sloppy soldering.

I performed these operations on my own HTX-202 and it works OK for  
9600 baud operation with my new Kantronics KPC-9612. I don't take any  
responsibility for invalidation of warranty or improper operation of the  
radio, etc.

I studied the schematics and determined the locations for making  
connections based on general recommendations for 9600 FSK. I didn't  
want to permanently deface my radio by making any holes in the case for  
wire penetrations, so I removed the battery and battery connector which  
is a plastic oval with a spring contact in it held by two screws and ran  
the wires out to the connector that goes to the TNC. I can restore it  
to original condition in just a few minutes. I used the smallest coax I  
had avail, I think it is RG-174. Someone may have a better idea about  
doing that part.

Open up the HTX-202 by removing the five screws, take off back cover,  
and separate front panel and lay it on bench so that flex pc cable won't  
be damaged.



This is a crude diagram of the inside of HTX-202 after splitting  
case and folding front case aside. There are several sub-PCBs  
standing on edge that I represented by the dashed lines. In my HTX-202  
the sub-board at upper left is labeled HF and the raw output from the  
discriminator IC goes into pin 1, the first solder pad starting from  
the center of the radio. This is where I soldered a small coax and ran  
it out the hole in bottom of case. This is Receive Audio into TNC.

The sub-board labeled MIC is microphone audio to modulator varicap. Pin 6 here goes directly into the VCO and this is where I soldered a second coax. The solder pad 6th pin from center of radio is right next to the RV1 deviation pot. (Don't melt the pot.) This is Transmit Audio from TNC.

The third connection, PTT, is harder to describe the actual point. What I did was flip the radio over and used a ohm meter to locate the solder trace from the center pin contact of external mike socket. It runs from just below mike socket to a small SMD resistor. I soldered a 2k resistor here and ran a tiny wire from other end of it, along the side of radio and out a slot in case where the cover wouldn't pinch it, and through the hole in the bottom.

The radio now has to be operated by a power supply, since the battery contact is gone and the wires are coming out the hole in the bottom. I lengthened the power wire that was removed from the contact and connected it to the same power supply as my TNC. The coax and PTT wires go to the DB15 connector for the KPC-9612. I used the coax shield for RX Audio as the ground connection, but left the TX Audio shield un-grounded at the DB15.

I am still in the process of evaluating how well this works on 9600 baud packet. There are very few VHF 9600 baud stations near me (only one, in fact) but hopefully in the future this will change. Good luck, and I welcome any feedback about this.....

Gene, WA4WBI  
-----

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

## 128. RE: [APRSSIG:3714] Central Illinois Balloon Association HST

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>  
Date: Fri, 6 Oct 1995 13:33:19 -0500 (CDT)  
To: aprssig@tapr.org  
Cc: CHEAD@exame2.dseg.ti.com  
Message-ID: <951006133319.20404046@exame2.dseg.ti.com>  
Rendered body type: text/plain

> Re: [APRSSIG:3714] Central Illinois Balloon Association HST  
> From: RonN9QGS@aol.com

I'll take a try at making the conversion, Ron. You can send the file to me at the e-mail address below. If you would, please also send me the record layout for the existing file, not sure I know what:

"its in the regular packetd format" is.

Also: Attention Bob Bruninga: Bob, would you send me a copy of the record format for the HST files?

With an official definition of both of those records, it ought to be pretty easy to make the conversion (assuming, of course, that they CAN map to each other!). :).

73 Claude Head  
K5DTN  
chead@exame2.dseg.ti.com  
(214) 995-5040 office phone  
(214) 386-8966 home phone

---

## 129. Re: [APRSSIG:3710] repetition? . . . repetition?

From: ASZ@aol.com  
Date: Fri, 6 Oct 1995 14:42:02 -0400  
To: aprssig@tapr.org  
Message-ID: <951006144202\_71579882@mail02.mail.aol.com>  
Rendered body type: text/plain

In a message 3710 95-10-06 11:24:43 EDT, you write:

>p.s. Does anyone else think there is too much repetition of messages ?

yes yes yes yes yes yes yes yes yes yes!



No details at this point.

All I want to do is put up a 1 watt Picosat AX.25 FM 2 meter 1200 baud packet transponder for digipeating SHORT UI frames only. (Position reports) The conventional FM is for maximum participation by low budget schools and students... etc...

5 watts if it is a piggyback payload...

If I am going to do this in 6 months, I will need SERIOUS help. Does anyone have any closet space parts that they can spare? I am thininking of a TNC, radio, and power supply only. Using a PacComm TNC, that gives me two on/off functions and 4 channels of analog telemetry, plus the digipeater, or course.. I want it simple.

---

### 133. NMEA -> HST conversion

From: Ralph Wallio <WALLIO@dsml.dsmnet.com>  
Date: Fri, 6 Oct 1995 17:13:51 -0500 (CDT)  
To: RonN9QGS@aol.com  
Cc: aprssig@tapr.org  
Message-ID: <951006171351.29b3@dsml.dsmnet.com>  
Rendered body type: text/plain

TO : Ron, N9QGS RonN9QGS@aol.com  
CC : aprssig@tapr.org  
FROM : Ralph Wallio, W0RPK wallio@dsml.dsmnet.com  
SUBJECT: NMEA -> HST Conversion  
DATE : 6 Oct 95

Ron,

I have converted many high altitude balloon mission GPS telemetry files to APRS.HST format (see habetx.hst files in ftp.tapr.org). My process is as follows:

- 1) Use wordsmithing to remove everything from the GPS telemetry file except NMEA sentences. I use WORDSTAR's non-document mode for wordsmithing. The find-and-replace feature makes it reasonable to quickly remove unwanted headers and chatter from 100K+ raw files.
- 2) Attempt to fill-in any missing navigation frames from data received by other stations. HABET transmits GPS time-stamped frames every ten seconds via low-speed telemetry. The time stamp field makes it easy to detect missing frames. If a frame is not available from any receiving station, simple inter-frame interpolation can be used (but flag the data as such .. I use a ?? in the two-byte frame check sequence field).
- 3) Use a PC, terminal program and TNC assembly to transmit the clean data to a second APRS-equipped assembly. Radios are not necessary ... use an audio connection. I turn the APRS motion filter off to allow more .HST records to be created.
- 3) Depending on the number of NMEA frames, APRS may create multiple .HST files. Use wordsmithing to combine these files in a single master .HST file.
- 4) Use wordsmithing to remove data from each .HST record which is not required for successful APRS replays. I use resulting space in each record to add important mission information. (See habet7.hst file in ftp.tapr.org/tapr/SIG/aprssig/upload.)
- 5) Load fully processed .HST file to \APRSnnn\HSTS sub-directory and enjoy the results.

Regards, Ralph Wallio, W0RPK  
Middle River Valley Radio Observatory  
1250 Highway G24  
Indianola, Iowa 50125  
515-961-0383  
wallio@dsml.dsmnet.com

---

### 134. APRS Sat

From: DDOBBINS@aol.com  
Date: Fri, 6 Oct 1995 19:57:58 -0400  
To: aprssig@tapr.org  
Message-ID: <951006195758\_38302319@mail04.mail.aol.com>

Rendered body type: text/plain

Read Bob's message ref the APRS Satellite opportunity. In reality, Bob was on his knees begging for room in the MAR96 payload. HI HI.

Now, for all seriousness. This is a golden opportunity for all of us hard-core APRS addicts to help the cause. Whether you're validated or not, interested or not, subscriber or not, or Ham or not, it's time all of us to make a \$5.00, that famous Abe bill, donation to Bob's efforts and requirements to make the APRS Satellite work. I pledge \$5.00 right now, and will send it in tomorrow's mail (the mailman picks it up from me on (you guessed it) the beach. I encourage all to do the same. Perhaps Bob will etch all of our call signs into the skin of APRS 1 (my name suggestion). If you've got other ideas about configuration or capability, pass that on to Bob also. Important thing is that we all do something about this RIGHT NOW.

So help out the cause. Send \$5.00 to Bob Bruninga, WB4APR, 115 Old Farm Ct, Glen Burnie, MD 21060.

Thanks all. Now it's back to the beach. Temp 82 degrees, tradewinds at 4 mph. Aloha, Dave.

---

### 135. REQUEST FOR SPARE WIDE DIGI RADIO

From: DDOBBINS@aol.com  
Date: Fri, 6 Oct 1995 19:58:05 -0400  
To: aprssig@tapr.org  
Message-ID: <951006195804\_38302437@emout06.mail.aol.com>  
Rendered body type: text/plain

Thanks to those who responded with leads and offers of spare radios to help us get APRS WIDE digi on 145.79. I've ordered a KPC-3, and we have the antenna and mountain top picked. We should be on the air w/i a couple weeks, so if you're on Oahu, try 145.79 and WIDE digi. The annual SET is in a couple weeks, hope to have it up by then. Back to the beach (of course). Aloha, Dave.

---

### 136. RE: [APRSSIG:3698] RE: Commercial Surplus Radios for Digis

From: Ken Wolfe <us005373@interramp.com>  
Date: Fri, 6 Oct 1995 20:08:37 -0400  
To: "'aprssig@tapr.org'" <aprssig@tapr.org>  
Message-ID: <01BA9427.A1E6C1C0@ip51.philadelphia.pa.interramp.com>  
Rendered body type: text/plain

-----

>Ken  
>  
>Attachment Converted: C:\MSPRING\EUDOR\APRSSIG3  
>Notice above, in your message, at the bottom. You attached some sort of file. What is that about?  
Do you have something set wrong or do I? No one else's messages do that, but both of yours have.

A Windows 95/driver/Mail Client/whatever problem...sorry about that.  
Hope this message doesn't have the same problem.  
Ken

---

### 137. Anyone get dropped by the listproc ?

From: n2czf@gate.net  
Date: Fri, 6 Oct 1995 20:50:03 -0400  
To: aprssig@tapr.org  
Message-ID: <199510070050.UAA51266@tequesta.gate.net>  
Rendered body type: text/plain

Hello, did anyone else get dropped by the TAPR list processor ??  
I finally came to this conclusion after 2 days of no sig mail and decided to re-subscribe thru the TAPR home page.

I see messages RE: a APRS payload (missed the original) and one RE: Commercial Radios! Wonder what other hot topics were missed in 2 days ? This sig is a "hopping" one.

On that note anyone have any experience converting Motorola 800 MHz radios over to the 902 ham band ?? Got a few of these and they sure would make some nice backbone radios if we ever got the ROSE code done up for APRS support.

73's Rich N2CZF  
n2czf@gate.net

### 138. Re: [APRSSIG:3723] APRS Sat

From: wnoille@ro.com (William Nolle)  
Date: Fri, 06 Oct 1995 21:45:26  
To: aprssig@tapr.org  
Message-ID: <199510070252.VAA27557@sh1.ro.com>  
Rendered body type: text/plain

I'm game on this and will contribute, but would like to know what this is all about (Yes i did see the message from Bob) but past by it rather quickly (Sorry Bob). By the way Bob the comma was the problem hi. And Bob get up off your knees. hi hi...PS: Thanks Dave great idea....

Bill KE4EER

-----  
>Read Bob's message ref the APRS Satellite opportunity. In reality, Bob was on  
>his knees begging for room in the MAR96 payload. HI HI.  
>  
>Now, for all seriousness. This is a golden opportunity for all of us  
>hard-core APRS addicts to help the cause. Whether you're validated or not,  
>interested or not, subscriber or not, or Ham or not, it's time all of us to  
>make a \$5.00, that famous Abe bill, donation to Bob's efforts and  
>requirements to make the APRS Satellite work. I pledge \$5.00 right now, and  
>will send it in tomorrow's mail (the mailman picks it up from me on (you  
>guessed it) the beach. I encourage all to do the same. Perhaps Bob will etch  
>all of our call signs into the skin of APRS 1 (my name suggestion). If you've  
>got other ideas about configuration or capability, pass that on to Bob also.  
>Important thing is that we all do something about this RIGHT NOW.  
>  
>So help out the cause. Send \$5.00 to Bob Bruninga, WB4APR, 115 Old Farm Ct,  
>Glen Burnie, MD 21060.

---

### 139. Re: [APRSSIG:3727] Re: APRS Sat

From: n2czf@gate.net  
Date: Fri, 6 Oct 1995 23:21:26 -0400  
To: aprssig@tapr.org  
Message-ID: <199510070321.XAA110888@tequesta.gate.net>  
Rendered body type: text/plain

Can someone re-post his message as private mail to me ? No need to re-post it to all. Seems I was bumped off of the sig for 2 days and I missed that one, sounds interesting ....

73's Rich  
n2czf@gate.net

---

### 140. Re: [APRSSIG:3723] APRS Sat

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 7 Oct 1995 00:01:35 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951006235816.20234C-100000@greatlakes>  
Rendered body type: text/plain

On Fri, 6 Oct 1995 DDOBBINS@aol.com wrote:

> Now, for all seriousness. This is a golden opportunity for all of us  
> hard-core APRS addicts to help the cause. Whether you're validated or not,  
> make a \$5.00, that famous Abe bill, donation to Bob's efforts and  
> requirements to make the APRS Satellite work.

APR REPLY: THANKS BUT NO THANKS!!!! HI HI. THIS WILL BE A NAVAL ACADEMY  
PROJECT AND FUNDING WILL NOT BE A PROBLEM. THE PROBLEM will be my time.  
Do not send me any bucks. I'd have to send it back, hi hi

---

### 141. I'm off for now

From: jeff.brenton@espi.com  
Date: Fri, 06 Oct 95 22:43:58 -0500  
To: aprssig@tapr.org  
Message-ID: <9510062243.0VX0U0J@espi.com>  
Rendered body type: text/plain

Due to time constraints (namely, I'd like to get SOME sleep at night!), I've signed off of APRSSIG for an undetermined interval. I will be available by direct mail, but will only read the SIG through the monthly summaries for a while. Just too many projects going on, with one helper out of service because of a new baby and other commitments.

If anyone needs to get ahold of me, you can use any of the following email addresses:



jeff.brenton@espi.com  
jrb@espi.com  
76703.1065@compuserve.com

The last address is the one I check most frequently - usually a dozen or so times per day, being a SYSOP. The other two are my BBS, which gets along without constant supervision, so it only gets checked once a day or so.

Type at 'yall later!

---

#### 142. Re: [APRSSIG:3714] Central Illinois Balloon Association HST

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Sat, 7 Oct 1995 02:22:01 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130533ac9bdb038a22@[199.1.11.110]>  
Rendered body type: text/plain

>I have a good file of the balloon launch in Illinois, but its not in a HST  
>format, at least yet, its in the regular packetd format, MacAPRS reads this  
>fine, but DOS versions I don't think can, so if anyone is interested, I can  
>send it as a message over the SIG or directly to you...  
>Let me know.  
>Ron

I would like the Mac version, please

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

#### 143. Re: [APRSSIG:3714] Central Illinois Balloon Association HST

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Sat, 7 Oct 1995 02:48:55 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130503ac9b23752fb1@[199.1.11.128]>  
Rendered body type: text/plain

>I have a good file of the balloon launch in Illinois, but its not in a HST  
>format, at least yet, its in the regular packetd format, MacAPRS reads this  
>fine, but DOS versions I don't think can, so if anyone is interested, I can  
>send it as a message over the SIG or directly to you...  
>Let me know.  
>Ron

I would like the Mac version, please

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

#### 144. MSCAT.BK

From: wnolle@ro.com (William Nolle)  
Date: Sat, 07 Oct 1995 05:04:37  
To: aprssig@tapr.org  
Message-ID: <199510071011.FAA07490@sh1.ro.com>  
Rendered body type: text/plain

I was just looking trough the MSCAT.BK file and seen my call in the list does this mean all my time transmiiting was not in vane afterall?. Or am i just dreaming hi. I don't know where this file came from but it is in the 73d version.

Bill KE4EER

---

#### 145. Re: [APRSSIG:3728] Re: APRS Sat

From: Greg Jones <gjones@tenet.edu>  
Date: Sat, 7 Oct 1995 07:53:52 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510071253.HAA09822@beall.tenet.edu>  
Rendered body type: text/plain

The entire APRS mail archives is available via the listserv, ftp, and web. Just download the messages for the month you need.

Cheers - Greg

According to n2czf@gate.net:

>  
> Can someone re-post his message as private mail to me ? No need to re-post it to  
> all. Seems I was bumped off of the sig for 2 days and I missed that one, sounds  
> interesting ....  
>  
> 73's Rich  
> n2czf@gate.net  
>  
>

---

## 146. Re: [APRSSIG:3721] APRsat

From: "William J. Howard" <wjh@bareta.ideas.com>  
Date: Sat, 7 Oct 1995 10:27:27 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951007102028.2924A-100000@bareta>  
Rendered body type: text/plain

Bob, Dr. Tom Clark, W3IWI at NASA Goddard (Crustial Dynamics) could be a big help. He typically advises using non-space qualified parts since his experience shows they withstand the rigors of space very well -- not to mention that space flight parts are *very* expensive. We have a space flight design lab and clean room at my place if you care to take a look.  
73 - Bill

On Fri, 6 Oct 1995, Bob Bruninga wrote:

> Today during a visit of a NASA VIP, I was not only offered but almost  
> commanded to put together a Payload for an upcoming March 96 launch.  
> The size can be as small as one of my PicoSATS or larger. It can be  
> a stick-on payload onto an existing package, or maybe a free-flyer...  
> No details at this point.  
>  
> All I want to do is put up a 1 watt Picosat AX.25 FM 2 meter 1200  
> baud packet transponder for digipeating SHORT UI frames only.  
> (Position reports) The conventional FM is for maximum participation by  
> low budget schools and students... etc...  
>  
> 5 watts if it is a piggyback payload...  
>  
> If I am going to do this in 6 months, I will need SERIOUS help. Does  
> anyone have any closet space parts that they can spare? I am thinking  
> of a TNC, radio, and power supply only. Using a PacComm TNC, that gives  
> me two on/off functions and 4 channels of analog telemetry, plus the  
> digipeater, or course.. I want it simple.  
>

---

## 147. DONT SEND \$ TO BOB FOR APRS SAT

From: DDOBBINS@aol.com  
Date: Sat, 7 Oct 1995 13:41:39 -0400  
To: aprssig@tapr.org  
Message-ID: <951007134139\_38714908@mail06.mail.aol.com>  
Rendered body type: text/plain

OK, I was a little quick on the draw ref yesterday's request for SIG to send Bob \$5 to help out with the APRS Satellite project. I saw the satellite while visiting Bob in 94 and was quite excited about it then, and really excited (I hollared YES !!!) when I read Bob's msg yesterday. If you missed Bob's note (maybe you were on the beach too) he says the Academy will fund the project, so DON'T send him anything other than your APRS validation fees. Looks like a nice set rolling in, so it's back to the beach (what else). Aloha, Dave.

---

## 148. Unsolicited File Transfer

From: W2H0B@aol.com  
Date: Sat, 7 Oct 1995 14:43:03 -0400  
To: aprssig@tapr.org  
Message-ID: <951007144301\_71842132@emout04.mail.aol.com>  
Rendered body type: text/plain

I signed on to AOL, which is my "onramp provider" and got all my APRSSIG messages and as the last thing it did was to automatically download a file named 1193PCX.ZIP to me... I had no idea where this file came from as it did not appear to be attached to any email... hmmm...

Wary as I am of viruses, I apprehensively unzipped the file into its own subdir and voila... there's APRS73D... complete with all its MAPOs, HSTS, BKs

etc... How did this happen? Does anyone on the SIG here know? If someone is doing this as a service, they need to know it's no service when I already had this a day or so ago and it costed me extra to stay online while the transfer occurred.

I've been receiving other files the same way, but cancelled the download, not knowing what was happening and again not wanting to incur toll charges unnecessarily. I have received "advertisements" in the past... totally unrelated to the SIGs I subscribe to...

Does anyone know what's happening?  
73 de Boyd (W2HOB@aol.com)

---

## 149. Re: [APRSSIG:3737] Unsolicited File Transfer

From: rwf <rwf@mindspring.com>  
Date: Sat, 7 Oct 1995 17:43:07 -0400  
To: aprssig@tapr.org  
Message-ID: <199510072143.RAA23112@dylan.mindspring.com>  
Rendered body type: text/plain

I have had this happen too. Not a file that big,. but I have received two "attached files" to messages.

I think it is people using Windows 95's IP suite for some reason. I contacted the person the mail came from and he says he has no Idea how it happened.

The files I get are called things like ARSSIG1 and APRSSIG2

At 01:50 PM 10/7/95 -0500, you wrote:

>  
>I signed on to AOL, which is my "onramp provider" and got all my APRSSIG  
>messages and as the last thing it did was to automatically download a file  
>named 1193PCX.ZIP to me... I had no idea where this file came from as it did  
>not appear to be attached to any email... hmmm...  
>

snip

>Does anyone know what's happening?  
>73 de Boyd (W2HOB@aol.com)  
>  
>  
>

---

## 150. Re: [APRSSIG:3705] RADIO SHACK HTX202

From: Richard Amirault <amirault@laraby.tiac.net>  
Date: Sat, 7 Oct 1995 19:29:46 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSF.3.91.951007192822.2353A-100000@laraby.tiac.net>  
Rendered body type: text/plain

On Thu, 5 Oct 1995, Mike McKinney wrote:

> DOES ANYBODY HAVE WIRING INFO TO INTERFACE A RADIO SHACK HTX202 2MTR HT TO A  
> KANTRONICS KPC3?

Sorry can't help with wiring, I used the MFJ pre-made cable. It works just great!

|                   |                 |                           |
|-------------------|-----------------|---------------------------|
| Richard Amirault  | N1JDU           | Boston, Massachusetts USA |
| amirault@tiac.net | "Go Fly A Kite" |                           |

---

## 151. APRsat

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 7 Oct 1995 21:42:04 -0400 (EDT)  
To: aprssig@tapr.org  
Cc: amsat-bb@amsat.org, w3iwi@amsat.org  
Message-ID: <Pine.SUN.3.91.951007204605.21543C-100000@greatlakes>  
Rendered body type: text/plain

The objective of the APRsat is to relay very short UI frame packets containing position reports of the form WB4APR>FM19dx-1:\*status\*. These packets contain the Maidenhead Grid Square in the TO field and result in a very short packet. To do this, all we need is a standard TNC digipeater. The AMSAT APRtrak program will plot these position reports on a map.

Beyond these fundamental requirements, here are some other considerations and enhancements:

- 1) Downlink on 2 meters ax.25 1200 baud FM
- 2) Uplink on 2 meters (if possible) else 435
- 3) Use PacComm TNC which has 4 analog telemetry inputs and 2 outputs for basic telemetry.
- 4) No other CPU on board. Hardware reset of TNC at each sunrise.
- 5) Modify TNC code so no digipeater field is used. Digipeat based on the TO-SSID. This would allow for 15 different addressable APRsats on the SAME frequency and save 8 BYTES or 33% of every packet! ALL APRsats would digipeat -0 packets.
- 6) Avoid abuse by moding TNC to restrict digipeats to POSITs only
- 7) Put a GPS on board to report satellites position.
- 8) Modify the TNC so that it will only DIGI ONE packet per call per orbit
- 9) Modify TNC heard log to include POSIT and interleave previously heard posits from up to 80 minutes prior into downlink so stations can see posits from other side of world (on same orbit)

The biggest problem and earliest one that must be solved is the FREQUENCY PLAN. As an educator, I think that DOVE is one of the BEST investments of the AMSATS due to its simplicity and availability to students worldwide. That is why the APRSat downlink should be on 2 meters. But looking at the difficulty in getting MIR and SAREX frequencies, this may be a problem. As a starter, would it make sense to re-use 145.55? The probability of interfering with MIR or SAREX on that frequency is only around 1 % and if we don't re-use that frequency in SPACE, then the terrestrial packet users will...

---

## 152. Re: [APRSSIG:3740] APRsat

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Sat, 7 Oct 1995 23:27:06 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510080427.XAA27336@solar>  
Rendered body type: text/plain

I tend to agree that Mir has been such a success for this very reason. I suspect a note on AMSAT-BB will elicit some well thought out pro and con responses, as well as a few crackpots. You need to continue to push, and emphasize the target of opportunity as well as the short duration of the mission (It's gonna be battery, few to no solar panels, LEO, poor mass to drag ratio, etc.).

73, gerry

--

Gerry Creager N5JXS                               \* SAREX Co-Investigator  
gerry@cs.tamu.edu                               \* A little radio that lets kids talk  
                                                  \* to astronauts, and smile

\*\*\*\*\*

---

## 153. No APRS in So. Ca.?

From: JeffS5@aol.com  
Date: Sun, 8 Oct 1995 03:06:51 -0400  
To: aprssig@tapr.org  
Message-ID: <951008030649\_39118088@emout06.mail.aol.com>  
Rendered body type: text/plain

I turned on 145.79 today from the Santa Clarita Valley (extreme N. LA County) and quickly logged 25+ APRS stations: 4 in San Francisco, 1 in Texas, 1 in Midwest, and the rest in San Diego, 3 were Wx stations too. Obviously the HF Gateways are working from the Bay Area.

BUT, looking at the map after being on all day Saturday, the only APRS station on .79 for 100+ mile is me! L.A.'s a rather boaring city eh? True there is minor activity elsewhere on the band, but if I were to park somewhere, it'll be on .79 even though it's all DX from here. Maybe a WIDE in L.A. will fix it.

73, Jeff > WA6EQU@K6VE

34x 26' 23.8" N / 118x 29' 08.4" W

---

## 154. Bit mapped maps

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 8 Oct 1995 11:11:12 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951008110813.22483A@greatlakes>  
Rendered body type: text/plain

I should be able to use BIT maps in APRS, if someone can give me the format and or a Qbasic routine for drawing them on the screen. This means the code for reading a bitmapped image and drawing it on the screen, whatever it is.

Also, what are the typical formats used by the bit map makers? .PCX, BMP, BIF? or whatever?

---

## 155. 4800 baud standard

From: Bob Bruninga <bruninga@nadm.navy.mil>  
Date: Sun, 8 Oct 1995 11:14:52 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951008111121.22483B@greatlakes>  
Rendered body type: text/plain

In version 73D, I changed the default baudrate to 4800 to match the TNC when it is used in GPS mode. This may cause some problems for new users who are used to APRS defaulting to 9600. My recommendation is to still run 9600 if you are not sharing the port with a GPS. Also, I display the baud rate on the CONTROL-PANEL now.

---

## 156. GIF, PCX, JPG...

From: CMPK59D@prodigy.com (MR ROBERT D SWAIN)  
Date: Sun, 08 Oct 1995 12:41:41 EDT  
To: aprssig@tapr.org  
Message-ID: <013.02559720.CMPK59D@prodigy.com>  
Rendered body type: text/plain

-- [ From: Robert D. Swain \* EMC.Ver #2.10P ] --

Expanded recipient data:

cc: Jerry T. Swain \ PRODIGY: (CMPK59A)

Bob,

Is that to say that if you can figure a way to do bitmap graphics that I could use an overhead "photo" of the area as my map???

If that's true, we need to get access to LandSat images or talk our aviation buddies into a flight over the area!!

Think of the implications! Accuracy, realism, terrain color, density of population, location of obstructions such as mountains, location of aids such as digis, repeaters...

Firefighters, rescue, CAP, bike rally coordinators, DFers, hunters, campers, travelers... Imagine the applications!

Even without using overhead photos, the upgrade to bitmap graphics will be worth the effort!

Robert,  
N7LUE in Glen Burnie, Md

---

## 157. Re: [APRSSIG:3708] Re: MFJ data radio

From: Tom Tessier <tessier@cc.UManitoba.CA>  
Date: Sun, 8 Oct 1995 13:16:48 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510081816.NAA19058@hadar.cc.umanitoba.ca>  
Rendered body type: text/plain

Sure! I would like a schematic  
-TT

Michael Markmann writes:

>

> For anyone who is interested, I rigged up a simple squelch circuit for  
> the MFJ data radio using an LM311 comparator chip. This seemed to work ok  
> for the balloon launch but I was unable to test the squelch circuit as  
> much as I would have liked. This circuit would be useful for those who do  
> not have a TNC with DCD squelch.

>

> Those who are interested in the circuit can write me.

>

> Michael

> --

> Michael Markmann VE4MJM

> ve4mjm@draco.bison.mb.ca (Internet) | ERROR! REALITY.SYS Corrupted!

> VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25) | Reboot UNIVERSE.EXE!

> Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...  
>  
>  
>

## 158. Re: [APRSSIG:3726] Anyone get dropped by the listproc ?

From: n4uls@ix.netcom.com (Jack Anderson )  
Date: Sun, 8 Oct 1995 14:29:07 -0700  
To: aprssig@tapr.org  
Message-ID: <199510082129.0AA16740@ix7.ix.netcom.com>  
Rendered body type: text/plain

You wrote:

>On that note anyone have any experience converting Motorola 800 MHz radios over  
>to the 902 ham band ?? Got a few of these and they sure would make some nice  
>backbone radios if we ever got the ROSE code done up for APRS support.  
>  
>73's Rich N2CZF  
>n2czf@gate.net

I was net-surfing the other day and I found some mod info for getting 900 MHz Maxtracs to work in 902-928. It was an easy mod. I can't remember the FTP site though. It was one of the well known mode repositories. I have it at work and will post it Monday.

Jack

## 159. Ooops Error Number 5

From: Doug Smith <dougs@ccnet.com>  
Date: Sun, 8 Oct 95 15:13:11 PDT  
To: aprssig@tapr.org  
Message-ID: <Chameleon.951008151612.dougs@ccnet.ccnet>  
Rendered body type: text/plain

I was running 73d from DOS (Windows wasn't running.) I left the computer for a few hours and came back to find my screen in a mess. In the middle of the screen I saw Error No 5 push enter to return to DOS. What causes the infamous error number 5?

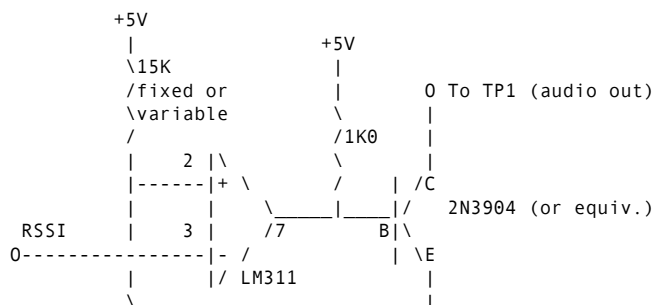
```
-----  
| ORIGIN: Doug Smith   dougs@ccnet.com |  
| Pleasant Hill, CA   http://www.ccnet.com/~dougs/ |  
| WA6GON              Packet/APRS/RTTY/SWL |  
| Sysop               Douglas.Smith@f911.n161.z1.fidonet.org |  
| Alternate address   dougs@psi.prc.com |  
-----
```

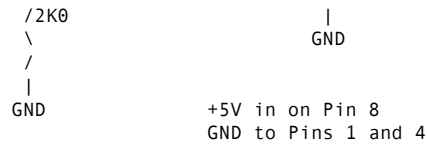
## 160. MFJ Data Radio Squelch Circuit

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>  
Date: Sun, 8 Oct 1995 15:05:33 -0600 (CST)  
To: aprssig@tapr.org  
Cc: Michael Markmann <ve4mjm@draco.bison.mb.ca>  
Message-ID: <Pine.LNX.3.91.951008150257.2978B-100000@draco.bison.mb.ca>  
Rendered body type: text/plain

Simple squelch circuit for the MFJ Data Radio:

The Motorola VHF Receive chip that is used in the MFJ Data Radio has a Received Signal Strength Indicator (RSSI) output on pin 12. MFJ has thoughtfully put a test pin on the board from this pin. Using this pin and TP1 (I believe that's what it is; I'm going from memory) which is the audio out from the discriminator, I have built a simple audio squelch circuit. The schematic is as follows:





The circuit is a simple comparator: when the voltage at pin 3 (RSSI) rises above the preset voltage at Pin 2, the transistor turns off and audio is passed out of the radio. When the voltage falls below that of Pin 2, the transistor turns on, muting the audio.

The resistor values are not critical. I found that 0.6V was a suitable level for Pin 2. A variable resistor would allow you to adjust the squelch level.

A further addition to this would be to mute the audio while the radio is transmitting. This may or may not be a problem with your TNC but since the receiver is always operational, even during transmit, your TNC may be confused or APRS may not function correctly. I have not been able to investigate this possible problem as the radio is crystallized for 145.790 and there is no activity here in Winnipeg on this freq. A possible fix would be to use a diode from the audio test point to the PTT line.

I hope someone finds this useful. Send any questions and/or comments to me direct and not the sig.

Michael

```

--
Michael Markmann VE4MJM          |
ve4mjm@draco.bison.mb.ca (Internet) | ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25) | Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...

```

## 161. Re: [APRSSIG:3745] GIF, PCX, JPG...

From: Gerald J Creager <gerry@cs.tamu.edu>  
 Date: Sun, 8 Oct 1995 17:53:23 -0500 (CDT)  
 To: aprssig@tapr.org  
 Message-ID: <199510082253.RAA10523@solar.cs.tamu.edu>  
 Rendered body type: text/plain

MR ROBERT D SWAIN sez:

```

>
> Bob,
>
> Is that to say that if you can figure a way to do bitmap graphics that
> I could use an overhead "photo" of the area as my map???
>
> If that's true, we need to get access to Landsat images or talk our
> aviation buddies into a flight over the area!!

```

In my GIS lab, we've been doing quite a bit of work with mapping, and overlaying Landsat images. It's non-trivial.

If you do not have the same projection for image and base map, you're not going to get good (read, "USABLE") registration. Then, differentially corrected or no, you're out in a field, or somewhere unreliable, rather than where you think you are. It's really not as simple as it sounds.

It may be possible to do something like overhead imagery registration, but I know I will not have time to work on it for 3-6 months... unless something like that pops to the surface in my research.

```

> Even without using overhead photos, the upgrade to bitmap graphics will
> be worth the effort!

```

This, I think, is a reasonable statement. I just don't want folks to get too hopeful too fast.

73, gerry

```

--
Gerry Creager N5JXS          * SAREX Co-Investigator
gerry@cs.tamu.edu          * A little radio that lets kids talk
                           * to astronauts, and smile
*****

```

## 162. Re: [APRSSIG:3747] Re: Anyone get dropped by the listproc ?

From: n2czf@gate.net  
Date: Sun, 8 Oct 1995 19:29:56 -0400  
To: aprssig@tapr.org  
Message-ID: <199510082329.TAA109387@tequesta.gate.net>  
Rendered body type: text/plain

Thanks for the offer Jack, that file is the one which started the ball rolling. I got that one, thanks, was thinking what else can be done with some of the garbage I got here. As a matter of fact I worked for the guy that wrote the file about 5 years ago Dean McDermott WB2CMN, I was a freelance news cameraman for him in the New York Metro area.

Dean was really into the trunking stuff, we had mobiles and portables galore at our disposal and I do know that he was starting a 902 MHz repeater back then I guess that is when he wrote the file.

I got a bunch of 800 MHz Motorola and Standard but no 900 MHz that stuff is few and far between in this area. The FCC for the longest time would not issue 900 licenses unless you were in a area that showed a "need". Miami has shown a need for a while now with their RF saturation but West Palm Beach has been spared, so we do not see that much in the way of old 900 equipment since there are so few licenses. As a matter of fact last month we were contracted by another company for technical support on a new 900 trunking repeater, the first one in our area. That company is way down south from us so they do not want to be bothered with a 2 or so hour drive in case the system goes down. It will probably be quite a few years till we see plenty of these sitting in the corner waiting for "Mr. Sandman".

73's Rich N2CZF

---

### 163. Re: [APRSSIG:3751] Re: Anyone get dropped by the listproc ?

From: n4uls@ix.netcom.com (Jack Anderson )  
Date: Sun, 8 Oct 1995 17:23:12 -0700  
To: aprssig@tapr.org  
Message-ID: <199510090023.RAA26539@ix3.ix.netcom.com>  
Rendered body type: text/plain

You wrote:

>

>Thanks for the offer Jack, that file is the one which started the ball rolling.  
>I got that one, thanks, was thinking what else can be done with some of the  
>garbage I got here. As a matter of fact I worked for the guy that wrote the file  
>about 5 years ago Dean McDermott WB2CMN, I was a freelance news cameraman for  
>him in the New York Metro area.

Well good luck with the 800 MHz radios, hope you can make something happen with them. The mod file for the 900 MHz Maxtracs really caught my attention. They are decent radios and Chuck Hast told me on the ROSE listserver that the Maxtracs make good data radios for 9600. I met a ham/Motorola tech up this way who uses them on 2m and 440 for AFSK and voice, and he loves 'em. They aren't too expensive and you still get the good Motorola quality.

Incidentally, Tom Moulton tells me that he does plan to include some APRS functionality in ROSE. The next release will have the TXUI application which basically allows us to route UI frames through a ROSE network. What you get is an "unconnected" network (sounds familiar, eh? the term itself reminds me of APRS) - this could have some APRS applications all by itself.

Jack

---

### 164. Re: [APRSSIG:3748] Ooops Error Number 5

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 8 Oct 1995 23:12:39 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951008230958.23410D-100000@greatlakes>  
Rendered body type: text/plain

On Sun, 8 Oct 1995, Doug Smith wrote:

> I was running 73d from DOS (Windows wasn't running.) I left the  
> computer for a few hours and came back to find my screen in a  
> mess. In the middle of the screen I saw Error No 5 push enter  
> to return to DOS. What causes the infamous error number 5?

APR REPLY: It means illegal function call. If it is random, usually it comes from a garbled packet that messes up the posit or other field.

---

### 165. Re: [APRSSIG:3753] Re: Ooops Error Number 5



From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Sun, 8 Oct 1995 22:40:36 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510090340.WAA15377@solar.cs.tamu.edu>  
Rendered body type: text/plain

Bob Bruninga sez:

>  
>  
> On Sun, 8 Oct 1995, Doug Smith wrote:  
>  
> > I was running 73d from DOS (Windows wasn't running.) I left the  
> > computer for a few hours and came back to find my screen in a  
> > mess. In the middle of the screen I saw Error No 5 push enter  
> > to return to DOS. What causes the infamous error number 5?  
>  
> APR REPLY: It means illegal function call. If it is random, usually it  
> comes from a garbled packet that messes up the posit or other field.

Geez. I'd been seeing that off and on for quite a while on qbasic/MAPFIXxx.  
Thought it was something \*I\* did.

73, gerry

--  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile  
\*\*\*\*\*

---

## 166. Event Dead Reckoner! (& DX)

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 8 Oct 1995 23:44:21 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951001232858.18565D-100000@greatlakes>  
Rendered body type: text/plain

The GOOD NEWS:

In preparations for the upcoming Marine Corps Marathon, I got the initial code for an automatic special event dead-reckoner to work where it will automatically dead reckon special marked objects along an established course. The course is defined by the color purple on an APRS map. All you do is put the lead runner, lead handicpped, lead female, Pack, and tail end charlie on the map, and they will all move right along on schedule AND MAKE TURNS...

THE BAD NEWS: It wont fit. SOMething has got to be left out.

WHAT TO LEAVE OUT? The biggest chunk of code in APRS that NO ONE EVER REPORTS USING is the DX cluster code. Although I am not a DXer and had never used a DX cluster, I found the APRS DX plotting function to be very interesting to watch and even more animated than watching a conventional APRS net. I just dont understand why no one uses it. Or why we cannot get DXers to try it out...

If I take DX out and make it a separate program, then no one will try it... I need some feedback. If you DO use it, tell me. If you DO monitor DX clusters but DO NOT use APRS, then tell me also. I will assume that EVERYONE else just isnt interested in monitoring DX clusters, so NO NEED TO REPLY and clutter my IN-BOX. Thanks,...

Finally, the MC Marathon is on 22 Oct, and dont expect this code to be releasable until after that. If you are going to be doing a "marathon" type event between now and then, and just HAVE TO HAVE this code, lemme know. Otherwise I should be working on smoehting else next week.

---

## 167. MFJ TNC to Garmin Interface

From: "L. J. Shepherd" <ljs@west.net>  
Date: Mon, 09 Oct 1995 01:01:22 -0700  
To: aprssig@tapr.org  
Cc: jhobson@west.net  
Message-ID: <199510090804.BAA13481@acme.sb.west.net>  
Rendered body type: text/plain

Hello Group:

I am in the process of interfacing my Garmin GPS 45 and MFJ 1270B TNC for standalone position reporting. That is, just the TNC and GPS.....no computer.

I would be most appreciative if someone who has successfully done this would send me the particulars of their TNC initialization string. I have the TAPR V1.1.9 Eprom with the NMEA Beaconsing Mode installed in the TNC

and have tried the interface using TAPR's suggested parameters.....that is:

NMEABCN 3 (30 sec), NMEAFLT1 GPGBA, CONMODE CONVERSE, SENDPAC \$0D, and CR ON

When the power to the TNC is cycled on, the TNC sends one position packet immediately and then nothing else. I suspect that there may be some problem related to the Garmin 45 outputting data at a 1 sec rate.....perhaps linefeed or flow conflicts, etc. I have successfully previously interfaced the Garmin 45 to my PC and APRS with no problems, so the GPS port I/O configuration is likely correct, as my position was nicely displayed on a laptop in a mobile configuration while in motion.

I suspect that getting the TNC-2 clone up and running is a matter of selecting the proper initialization string and rather than re-inventing the wheel, I would be grateful for any suggestions from those who have already solved this problem.

Thanks very much.....Jim K60YY

---

## 168. Re: [APRSSIG:3670] WANTED - 2M RADIO FOR APRS

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>

Date: Mon, 9 Oct 1995 05:06:35 -0500

To: aprssig@tapr.org

Message-ID: <9510091006.AA25326@omnifest.uwm.edu>

Rendered body type: text/plain

Dave,

REALLY wish you hadn't asked ME to do YOU a favor - so YOU could go "back to the beach" while I put up with the rain (soon to be snow) and don't have the OPTION of going to the beach.

CUL & 73 de Dave

=====

David W. Barrow III \* Amateur Radio:N9UNR \* Internet:dbarrow@omnifest.uwm.edu  
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603  
Ma Bell:(414) 375-2667 \* Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM  
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham  
=====

---

## 169. Re: Subscribe/Unsubscribe Problems

From: Per Molund <per@proact.no>

Date: Mon, 9 Oct 1995 11:53:48 +0100 (MET)

To: aprssig@tapr.org

Message-ID: <Pine.PCW.3.91.951009105658.7511A-100000@gruff>

Rendered body type: text/plain

Well, it may be wrong, but it worked for me when I signed on, and it also the way it is said to work in the help file for the list-serv program. You can check it out if you send a help command to listproc@tapr.org.

regards,

---per

On Thu, 5 Oct 1995, rfw wrote:

>  
> No, Per. That is not right. See the message from Greg Jones.  
>  
> Maybe that will put this issue to bed!!  
>  
>  
>  
>  
>  
> At 12:46 PM 10/5/95 -0500, Per wrote:  
> >  
> >The correct way to subscribe should be to send mail to:  
> >  
> > listproc@tapr.org  
> >  
> >the body should read (not Subject:)  
> >  
> > subscribe aprssig address  
> >  
> >The address are your email address, not your name. My initial subscription  
> >request was sendt to listserv, but I think it should really be addressed  
> >to listproc as N9VJQ states here. For more info you could email listproc  
> >with only HELP in the message body and all info regarding subscribing,  
> >changing address and unsubscribing will be returned.  
> >

```
> ---per
> >
> >On Thu, 5 Oct 1995 N9VJQ@aol.com wrote:
> >
> >> I think the correct way to subscribe to aprssig is:
> >> send an email message to
> >> listproc@tapr.org
> >> in the body of the message type:
> >> subscribe aprssig <firstname lastname>
> >> I believe it's LISTPROC, not LISTSERV
> >>
> >>
> >> In a message dated 95-10-04 17:31:27 EDT, you write:
> >>
> >> >I think the message shown below is incorrect.  Subscribe Aprssig doesn't
> >> >work.  You get an error msg.  As I always thought.  it has to be
> >> >subscribe aprssig firstname lastname
> >>
> >> >At 09:30 AM 9/29/95 -0500, you wrote:
> >> >>Hi All:
> >> >>
> >> >>Here's the file I send to anyone with subscribe/unsubscribe problems.
> >> >>It's simple, except to those who don't know how to do it.
> >> >>
> >> >>- - - - -
> >> >>
> >> >>To susbcribe to the APRS Sig (aprssig):
> >> >>
> >> >>Send an email message to listserv@tapr.org, TAPR's robot mail distributor:
> >> >>
> >> >>The single line of text:      subscribe      aprssig
> >> >>
> >> >>That's all! The listserver robot will send to your email address all email
> >> >>messages addressed to aprssig@tapr.org.
> >> >>
> >> >>
> >> >>
> >> *
> >> >>To un-subscribe to the APRS Sig (aprssig):
> >> >>
> >> >>Send an email message to listserv@tapr.org
> >> >>
> >> >>The single line of text:      signoff      aprssig
> >> >>
> >> >>
> >> *
> >> >>Caveats:
> >> >>
> >> >>When you subscribe, you'll receive an email from the listserver explaining
> >> >>some extra options you may use.  Don't delete that file!
> >> >>
> >> >>No one else can subscribe or un-subscribe you.  The sender's email address
> >> >>is
> >> >>used by the robot to turn on or turn off the forwarding to you.
> >> >>
> >> >>
> >> >>73
> >> >>Jess Girard      ND1L
> >> >>
> >> >>
> >> *
> >> >>Internet:  email text      girardj@delphi.com  (note the "j")
> >> >>      text or data      girard@panix.com   or   girard@netcom.com
> >> >>      anonymous ftp      ftp.netcom.com    (/pub/gi/girard/jess)
> >> >>
> >> >>
> >> *
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> >  
> >  
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>  
>

---

## 170. Re: [APRSSIG:3683] Re: Mail failure

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>  
Date: Mon, 9 Oct 1995 08:17:44 -0400  
To: aprssig@tapr.org  
Message-ID: <199510091217.IAA02748@dylan.mindspring.com>  
Rendered body type: text/plain

At 03:20 AM 10/5/95 -0500, Chip wrote:

>Well, I see we still haven't fixed this problem. Is there anyone out  
>there paying attention who has the ability to correct this. One would  
>only know about it if you post, since it replies to the sender vice the  
>listserver. If we can't do this remotely, there must be someone who  
>controls the listserver who can disconnect this non-person ...  
>

Chip, I tested those incorrect subscribing instructions that someone posted earlier this week. I got a bounced message from the robot, who also told me the address to write if we have problems with the listserver. I have written to that address and outlined the red river problem, asking that it be corrected. I even provided them with the actual bounced message return text.

I also asked that the "reply to" field not be pre-charged with the aprssig@tapr.org address. Maybe it will help some of the accidental sig msgs that should be private.

and by the way- My PC works quite nicely with 1 serial port, a GPS, a TNC, and PacComm's hsp adapter. No PCMCIA card or extra serial port purchase required. Sorry the Mac doesn't support that. :) (just had to get one in, I see so many from Keith about how the Mac does this or that so much better than the PC :) )

Ralph

>

---

## 171. Re: [APRSSIG:3682] Re: MFJ data radio

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>  
Date: Mon, 9 Oct 1995 08:17:49 -0400  
To: aprssig@tapr.org  
Message-ID: <199510091217.IAA02759@dylan.mindspring.com>  
Rendered body type: text/plain

Chip

I am using a Pico Packet. Have been since our balloon flight in August. Will be flying it again soon. It isn't vapor ware. It works great. There are at least 4 locally that I know of. The Company posted a message here recently that outlined the status of the Pico. At that time, I think they said they were a little while away from the 2nd serial port option being released to the public. But I think it will be worth the wait.

Ralph

At 01:44 AM 10/5/95 -0500, you wrote:

>I think I'd stick with Kantronics at this point. A few months ago, when  
>they said they were real close to completion, I ordered a PicoPacket w/  
>serial & battery option. I'll have to look up the exact date, but 3-4  
>weeks have turned into months and I haven't heard anything (despite a  
>couple of message to inquire the status). Now I haven't been billed for  
>anything yet, and I know Kantronics Tech Support isn't known for it's  
>excellence, but at least I haven't had a vaporware problem with  
>Kantronics. (BTW I have NOT been billed for what I haven't gotten, but I  
>haven't gotten the expected merchandise.)  
>

## 172. Re: [APRSSIG:3754] Re: Oops Error Number 5

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>  
Date: Mon, 9 Oct 1995 08:28:45 -0400  
To: aprssig@tapr.org  
Message-ID: <199510091228.IAA03893@dylan.mindspring.com>  
Rendered body type: text/plain

A couple of weeks ago, Bob wrote the error codes into the documentation files somewhere. Where were they Bob? Did they make it into 7D?

Ralph

At 10:45 PM 10/8/95 -0500, Gerry wrote:  
t messes up the posit or other field.  
>  
>Geez. I'd been seeing that off and on for quite a while on qbasic/MAPFIXxx.  
>Thought it was something \*I\* did.

---

## 173. APRS & Windows ???

From: kb7qqq@nwlink.com (Sam Roe)  
Date: Mon, 09 Oct 1995 12:30:01 GMT  
To: aprssig@tapr.org  
Cc: kb7qqq@nwlink.com  
Message-ID: <199510091223.FAA10487@washington.nwlink.com>  
Rendered body type: text/plain

Was just wondering what is going on with the Windows APRS program. Not trying to rush anyone just wondering if there is any info.

Thanks  
Sam Roe  
kb7qqq@nwlink.com  
Tactical Area Communications  
A Member of Pierce County Search & Rescue

---

## 174. Re: [APRSSIG:3756] MFJ TNC to Garmin Interface

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>  
Date: Mon, 9 Oct 1995 08:37:38 -0400  
To: aprssig@tapr.org  
Message-ID: <199510091237.IAA04895@dylan.mindspring.com>  
Rendered body type: text/plain

Jim- isn't there supposed to be a \$ in front of GPGBA

Not familiar w the 1270's GPS support, bu I think that may be your problem

At 03:11 AM 10/9/95 -0500, Jim wrote:

>NMEABCN 3 (30 sec), NMEAFL1 GPGBA, CONMODE CONVERSE, SENDPAC \$0D, and CR ON  
>  
>  
>  
>  
>  
>  
>

---

## 175. Re: [APRSSIG:3743] Bit mapped maps

From: sproul@ap.org (Mark Sproul)  
Date: Sun, 8 Oct 1995 20:46:18 -0400  
To: aprssig@tapr.org  
Message-ID: <v02110100ac9e1eb73f76@[165.1.27.20]>  
Rendered body type: text/plain

>I should be able to use BIT maps in APRS, if someone can give me the format  
>and or a Qbasic routine for drawing them on the screen. This means the  
>code for reading a bitmapped image and drawing it on the screen, whatever  
>it is.

>  
>Also, what are the typical formats used by the bit map makers? .PCX,  
>BMP, BIF? or whatever?

Wait a minute!!!...

I have already done this in the MacAPRS version. (For those of you who don't know who I am, I am KB2ICI, Keiths twin brother, and I have written

alot of MacAPRS).

I seriously doubt if Bob can do this successfully on his DOS version of APRS because bit map images take up LOTS of memory. A 640 x 480 color (8-bit) bit map image takes up 307K. That is HALF of the limited 640K memory that is available. Even if you use a poor quality color (4-bit) image, its still 150K.

LandSat images are MANY MEGABYTES. I have worked with them and have done lots of manipulation with them. They also are not "square". By this I mean you cannot directly map them to a square x:y lat:lon model. There has to be a LOT of math conversion.

The Mac version ALREADY has the ability to deal with "square" images, i.e. a scanned map or a Delorme screen shot. I do not think this is within the realm of real possibilities for the DOS version.

Mark

---

|                                 |                       |
|---------------------------------|-----------------------|
| Mark Sproul                     | Amateur Radio: KB2ICI |
| Software Engineer @ Assoc Press | AppleLink: Sproul.M   |
| sproul@eos.ap.org               | Work: 609-860-7120    |
| North Brunswick, NJ             | Fax: 609-860-7129     |
| http://pilot.njin.net/~msproul  |                       |

---

## 176. Re: [APRSSIG:3762] APRS & Windows ???

From: sproul@ap.org (Mark Sproul)  
Date: Sun, 8 Oct 1995 21:20:11 -0400  
To: aprssig@tapr.org  
Message-ID: <v02110104ac9e28efa610@[165.1.27.20]>  
Rendered body type: text/plain

> Was just wondering what is going on with the Windows APRS  
>program. Not trying to rush anyone just wondering if there is any  
>info.  
>  
>Thanks  
>Sam Roe  
>kb7qqq@nwlinc.com  
>Tactical Area Communications  
>A Member of Pierce County Search & Rescue

Keith and I have announced that we are porting our MacAPRS to windows. I am making progress on it and expect to make our announced time frame.

For the announcement look at

<http://www-ns.rutgers.edu/~ksproul/APRS/>

Mark

---

|                                 |                       |
|---------------------------------|-----------------------|
| Mark Sproul                     | Amateur Radio: KB2ICI |
| Software Engineer @ Assoc Press | AppleLink: Sproul.M   |
| sproul@eos.ap.org               | Work: 609-860-7120    |
| North Brunswick, NJ             | Fax: 609-860-7129     |
| http://pilot.njin.net/~msproul  |                       |

---

## 177. DGPS/RTCM SC-104 ?

From: s\_paul\_m@main01.rz.uni-ulm.de  
Date: Mon, 9 Oct 95 15:14:04 +0100  
To: "aprssig@tapr.org"@netway.rz.uni-ulm.de  
Cc: S\_PAUL\_M@netway.rz.uni-ulm.de  
Message-ID: <9510091414.AA00699@netway.rz.uni-ulm.de>  
Rendered body type: text/plain

Hello!

I wonder if there is anybody in the SIG who can send me complete details of the RTCM SC-104 data format. I want to build RTCM sentences out of the OUTPUT PSEUDORANGE CORRECTION message of a MOTOROLA PVT6 Receiver.

Thanks.

### 178. Re: [APRSSIG:3756] MFJ TNC to Garmin Interface

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 9 Oct 1995 11:03:51 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951009105834.24554C-100000@greatlakes>  
Rendered body type: text/plain

On Mon, 9 Oct 1995, L. J. Shepherd wrote:

> I am in the process of interfacing my Garmin GPS 45 and MFJ 1270B  
> TNC for standalone position reporting. [ using these parameters: ]  
>  
> NMEABCN 3 (30 sec), NMEAFLT1 GPGGA, CONMODE CONVERSE, SENDPAC \$0D, and CR ON  
>  
> When the power to the TNC is cycled on, the TNC sends one position  
> packet immediately and then nothing else.

APR REPLY: Welcome to the first reported use of the TAPR ROM! My guess is that LFIGNORE MUST BE SET TO ON. Without it, each line feed is left in the buffer and with flow control, it prevents the TNC from transmitting. You might also turn off flow control. Not on-the-air flow control, but serial port flow control. Report results to us all.

---

### 179. Re: [APRSSIG:3761] Re: Oops Error Number 5

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 9 Oct 1995 11:07:03 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951009110639.24554D-100000@greatlakes>  
Rendered body type: text/plain

On Mon, 9 Oct 1995, Ralph Fowler, N4NEQ wrote:

> A couple of weeks ago, Bob wrote the error codes into the documentation  
> files somewhere. Where were they Bob? Did they make it into 7D?

ANSWER: TROUBLE.TXT

---

### 180. Re: [APRSSIG:3763] Re: MFJ TNC to Garmin Interface

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 9 Oct 1995 11:08:40 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951009110732.24554E-100000@greatlakes>  
Rendered body type: text/plain

On Mon, 9 Oct 1995, Ralph Fowler, N4NEQ wrote:

> Jim- isn't there supposed to be a \$ in front of GPGGA  
> Not familiar w the 1270's GPS support, bu I think that may be your problem

APR COMMENT: I dont think so, the TAPR code PRESUMES the \$ since all NMEA strings start with one. But try it..

---

### 181. Re: [APRSSIG:3756] MFJ TNC to Garmin Interface

From: Howard Goldstein <hg@penny.n2wx.ampr.org>  
Date: Mon, 9 Oct 1995 11:41:37 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951009113152.314D@n2wx.ampr.org>  
Rendered body type: text/plain

On Mon, 9 Oct 1995, L. J. Shepherd wrote:

> NMEABCN 3 (30 sec), NMEAFLT1 GPGGA, CONMODE CONVERSE, SENDPAC \$0D, and CR ON  
>  
> When the power to the TNC is cycled on, the TNC sends one position  
> packet immediately and then nothing else. I suspect that there may be some  
> problem related to the Garmin 45 outputting data at a 1 sec  
> rate.....perhaps linefeed or flow conflicts, etc. I have successfully

The above parameters work with my GPS55AVD and look fine (although I used different sentences; 55avd doesn't support GGA) A 1 / second update rate isn't a problem.

The TNC should be RESTARTed after the parameters are emplaced. Do you have regular beaconing or IDing enabled? What are AWLEN and PARITY settings? Is the ASYFRERR and ASYRXOVR counters non-zero?

Despite numerous requests for testers, so far as I know you're the only person besides myself who has used the TAPR NMEA feature after Bob asked me to put it in. As it hasn't been tested in the thousands of possible configs, could be you hit on one that's buggy. Hope not but it could be.

Howie

--  
Howard Goldstein <hg@n2wx.ampr.org> <http://www.tapr.org/~n2wx/>

---

## 182. Re: [APRSSIG:3742] No APRS in So. Ca.?

From: Dick Mead <mead@skat.usc.edu>  
Date: Mon, 9 Oct 95 10:12:11 PDT  
To: aprssig@tapr.org  
Message-ID: <CMM.0.90.2.813258731.mead@hamal.usc.edu>  
Rendered body type: text/plain

> I turned on 145.79 today from the Santa Clarita Valley (extreme N. LA County)  
> and quickly logged 25+ APRS stations: 4 in San Francisco, 1 in Texas, 1 in  
> Midwest, and the rest in San Diego, 3 were Wx stations too. Obviously the HF  
> Gateways are working from the Bay Area.  
>  
> BUT, looking at the map after being on all day Saturday, the only APRS  
> station on .79 for 100+ mile is me! L.A.'s a rather boaring city eh? True  
> there is minor activity elsewhere on the band, but if I were to park  
> somewhere, it'll be on .79 even though it's all DX from here. Maybe a WIDE in  
> L.A. will fix it.  
>  
> 73, Jeff > WA6EQU@K6VE  
>  
> 34x 26' 23.8" N / 118x 29' 08.4" W  
>

Jeff,  
Work is supposedly in progress to locate an APRS freq for LA. 145.79 is not it, yet. The SCDCC and whatever-the-vhf-freq-coordinating-group-calls itself-today has been looking at the issue. There is a group that operates 5kHz down from .79 that has to be considered before jumping on .79, in spite of what San Diego has decided. It would be nice if a resonable agreement could be reached that allows us use of .79 while providing the neighbors a solution. You may find out more on the voice packet net in LA, which meets on 145.30 (-600) repeater on Monday at 8PM.

73,

Dick WB6NGC

---

## 183. Re: [APRSSIG:3767] Re: MFJ TNC to Garmin Interface

From: Dick Mead <mead@skat.usc.edu>  
Date: Mon, 9 Oct 95 10:30:22 PDT  
To: aprssig@tapr.org  
Message-ID: <CMM.0.90.2.813259822.mead@hamal.usc.edu>  
Rendered body type: text/plain

>  
> On Mon, 9 Oct 1995, L. J. Shepherd wrote:  
>  
> > I am in the process of interfacing my Garmin GPS 45 and MFJ 1270B  
> > TNC for standalone position reporting. [ using these parameters: ]  
> >  
> > NMEAABCN 3 (30 sec), NMEAFLT1 GPGGA, CONMODE CONVERSE, SENDPAC \$0D, and CR ON  
> >  
> > When the power to the TNC is cycled on, the TNC sends one position  
> > packet immediately and then nothing else.  
>  
> APR REPLY: Welcome to the first reported use of the TAPR ROM! My guess  
> is that LFIGNORE MUST BE SET TO ON. Without it, each line feed is left  
> in the buffer and with flow control, it prevents the TNC from  
> transmitting. You might also turn off flow control. Not on-the-air flow  
> control, but serial port flow control. Report results to us all.  
>

---

## 184. Re: [APRSSIG:3770] Re: MFJ TNC to Garmin Interface

From: Dick Mead <mead@skat.usc.edu>  
Date: Mon, 9 Oct 95 10:34:03 PDT  
To: aprssig@tapr.org



Message-ID: <CMM.0.90.2.813260043.mead@hamal.usc.edu>  
Rendered body type: text/plain

I have used the TAPR GPS rom with success using a Magellan Meridian.  
I've had it for months, just never bothered to mention it, since it works just fine.

Dick WB6NGC

---

## 185. Re: [APRSSIG:3755] Event Dead Reckoner! (& DX)

From: DDOBBINS@aol.com  
Date: Mon, 9 Oct 1995 14:43:05 -0400  
To: aprssig@tapr.org  
Message-ID: <951009144303\_40063326@emout04.mail.aol.com>  
Rendered body type: text/plain

Bob and the group. I have not used the DX cluster capability, and don't have much interest in it. The Honolulu Marathon is DEC 10th and the added capability would be of interest, since APRS has been asked to help out. Aloha, Dave.

---

## 186. RE: [APRSSIG:3774] Re: Event Dead Reckoner! (& DX)

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>  
Date: Mon, 9 Oct 1995 14:16:53 -0500 (CDT)  
To: aprssig@tapr.org  
Cc: CHEAD@exame2.dseg.ti.com  
Message-ID: <951009141653.2040c8f7@exame2.dseg.ti.com>  
Rendered body type: text/plain

Bob and the group: The Dallas White Rock Marathon is scheduled for December 3 this year. The new dead reckoning capability discussed would be very nice for that event. I personally do not have much interest in the DX cluster capability and have seen no activity in Dallas with it. Comments worth at least \$0.02!

73 Claude  
K5DTN  
chead@exame2.dseg.ti.com

---

## 187. Win-95/APRS

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>  
Date: Mon, 9 Oct 1995 16:03:23 +0000  
To: aprssig@tapr.org  
Message-ID: <199510092002.QAA09620@hemisphere.neocomm.net>  
Rendered body type: text/plain

System: 90 mhz Pentium, 16 meg, Stealth 64 bit Graphics  
card.Windows/95.

The F10 key allowed me to switch to other programs while Aprs was suspended.  
When I simply moved APRS to the background (without the F10 key)My graphics would go crazy and the mouse would not respond.

Now I have reduced my colors from 16 million to 256 colors (This is the lowest acceptable number for me and my other programs) .  
I have checked the block on my pif file "suspend while in the background" Now I can easily move between several different programs with no video problems and my mouse works fine. This is a lot easier than using the F10 key. The only problem I get is when my Tnc (PK-232) buffer over fills with incoming data and some data is lost when I return to the APRS program. This is quite acceptable until someone presents a Windows version!

WB4PAN-9 GPS mobile is running and now I will try to tackle some mapping stuff. I foresee another brain overload!! If anyone has some additional unlisted Virginia maps let me know please...  
cdavidso@neocomm.net  
<http://www.neocomm.net/~cdavidso/>  
WB4PAN@WB4QOJ.VA.USA.NOAM

---

## 188. MFJ TNC to Garmin Interface -- Update 1

From: "L. J. Shepherd" <ljs@west.net>  
Date: Mon, 09 Oct 1995 14:33:06 -0700  
To: aprssig@tapr.org  
Cc: jhobson@west.net  
Message-ID: <199510092136.OAA20178@acme.sb.west.net>  
Rendered body type: text/plain

Hello again Group:

Thanks to all who responded to my earlier request for assistance in interfacing my MFJ 1270 TAPR NMEA ROM equipped TNC to my Garmin 45.

No success as yet, here are the parameters that were changed:

LFIGNORE to ON, FLOW to OFF      no improvement  
CPACTIME to ON, ECHO to OFF      no improvement  
ASYFRERR to 1, ASYRXOVR to 1      no improvement  
BEACON EVERY to 0                  no improvement

Comments:

I also tried a "\$" prefix to the NMEAFLT1 parameter, as NMEAFLT1 \$GPGGA, but it was rejected as too long a command.

I have no documentation regarding ASYFRERR and ASYRXOVR...Howie had suggested they be set to a non-zero value and I arbitrarily used a value of 1. Howie also asked if regular BEACONing was enabled, it was, so I changed it to 0. AWLEN is currently set to 8 and PARITY is set to 0 (4800 baud). When BEACON was turned off, the TNC no longer sends a packet on initialization.....which seems consistent with the parameter description.

Questions:

Is there interaction between NMEABCN and BEACON or ID that should be addressed in the initialization string ? What are the counters ASYFRERR and ASYRXOVR used for ?

I will attempt to append my TNC parameter list (DISPLAY command) to the end of this message.....again, I appreciate all your responses and will welcome further comments and suggestions.

73, Jim K60YY      TAPR 502

[Attachment: DISPLAY.TXT; text/plain; 1,712 bytes]

---

## 189. TAPR NMEA code

From: Jerry Wyatt <jwyatt@amex-trs.com>  
Date: Mon, 09 Oct 95 12:17:04 -0700  
To: aprssig@tapr.org  
Message-ID: <9510091917.AA46213@lineng.ipc.amex-trs.com>  
Rendered body type: text/plain

I too have had the TAPR code for a while. In fact I received it from Howie last June 94. No problems encountered with testing with several GPS systems. Also tested with WX system.

Most problems that I have helped others solve involve the SEX problems of the RS-232D connectors. ie Is it DCE/DTE and which pin goes where and especially if the interface also includes a DB-9 --> DB-25 connectors.

Later  
Jerry Wyatt

The opinions expressed in this message are those of the author only, and do not necessarily reflect the opinions of American Express.

---

## 190. Re: [APRSSIG:3777] MFJ TNC to Garmin Interface -- Update 1

From: Howard Goldstein <hg@penny.n2wx.ampr.org>  
Date: Mon, 9 Oct 1995 20:13:32 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951009200709.266B-100000@n2wx.ampr.org>  
Rendered body type: text/plain

On Mon, 9 Oct 1995, L. J. Shepherd wrote:

>           Is there interaction between NMEABCN and BEACON or ID that should be  
> addressed in the initialization string

There shouldn't be any. If it refused to work after turning both off then there probably isn't.

? What are the counters ASYFRERR and  
> ASYRXOVR used for ?

ASYFRERR counts on async framing errors, ASYRXOVR counts on SIO overruns. Counts on either of these are Bad Things.

----

Have you tried setting a different sentence in the NMEAFLTx, perhaps GPRMC? The 55AVD doesn't support GGA, maybe the 45 suffers from the same

malady. That isn't completely consistent with your report of it only sending one packet, but it would be if that one packet was really the BTEXT beacon and not a NMEA beacon.

FWIW the NMEABCN mode strips all linefeeds and fills the appropriate buffer (determined by NMEAFL1 and 2) with the most recent sentence. Neither LFIGNORE nor CPACTIME are relevant.

----

A great big thank you to the two gents who posted messages of their earlier success with the TAPR NMEA stuff. I'm extremely happy to hear it is seeing use with the fine line of APRS products.

Howie

--

Howard Goldstein <hg@n2wx.ampr.org> <http://www.tapr.org/~n2wx/>

---

## 191. RE: [APRSSIG:3753] Re: Oops Error Number 5

From: Doug Smith <dougs@ccnet.com>  
Date: Mon, 9 Oct 95 18:56:27 PDT  
To: aprssig@tapr.org  
Message-ID: <Chameleon.951009185800.dougs@ccnet.ccnet>  
Rendered body type: text/plain

On Sun, 8 Oct 1995 22:26:53 -0500 Bob Bruninga wrote:

>> to return to DOS. What causes the infamous error number 5?  
>  
>APR REPLY: It means illegal function call. If it is random,  
>usually it comes from a garbled packet that messes up the posit  
>or other field.

I guess my next question would be does the error have to be fatal? This could happen anytime. It might even happen at an inconvenient time <g>. Just food for thought. Thanks Bob.

```
-----
| ORIGIN: Doug Smith   dougs@ccnet.com |
| Pleasant Hill, CA   http://www.ccnet.com/~dougs/ |
| WA6GON              Packet/APRS/RTTY/SWL |
| Sysop               Douglas.Smith@f911.n161.z1.fidonet.org |
| Alternate address   dougs@psi.prc.com |
-----
```

---

## 192. Re: DX Cluster Mode

From: Turnstone@aol.com  
Date: Tue, 10 Oct 1995 02:39:44 -0400  
To: aprssig@tapr.org  
Message-ID: <951010023944\_40652480@emout06.mail.aol.com>  
Rendered body type: text/plain

Hi Group,  
I've just started using the DX Cluster mode, and I like it very much!  
I'd be one sad ham if it was to suddenly disappear now...

Tom - KC7AGK Salem, OR

---

## 193. APRS Archives

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Tue, 10 Oct 1995 07:11:00 -0500  
To: aprssig@tapr.org  
Message-ID: <9510101211.AA18437@omnifest.uwm.edu>  
Rendered body type: text/plain

Could some one PLEASE post a "cookbook" explanation for each method??

The entire APRS mail archives is available via the listserv, ftp, and web. Just download the messages for the month you need.

Please make the explanation as detailed as possible as some of MY users are pretty new at the 'net.

BTW is there an FAQ on APRS? I would post that also.

Speaking of FAQs - I am amused at the computer name of the main storage site...rtfm.mit.edu. I am frequently tempted to tell some of MY customers the "Read The F---ing Manual".

73 de Dave  
CUL & 73 de Dave

=====

David W. Barrow III \* Amateur Radio:N9UNR \* Internet:dbarrow@omnifest.uwm.edu  
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603  
Ma Bell:(414) 375-2667 \* Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM  
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham  
=====

---

#### 194. Re: [APRSSIG:3782] APRS Archives

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Tue, 10 Oct 95 8:37:30 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.813328650.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

ALL of the PC documentation is available at my WWW site for easy access via the WEB.. The site is

<http://www-ns.rutgers.edu/~ksproul/APRSDOC/APRSDOC.html>

Keith

|                                                                                       |                                    |
|---------------------------------------------------------------------------------------|------------------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z                    |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu            |
| Rutgers University Computing Services                                                 | 908 445-3695 Work 908 445-2968 Fax |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home                  |

---

#### 195. Re: [APRSSIG:3761] Re: Oops Error Number 5

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Tue, 10 Oct 1995 08:10:43 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510101310.IAA16637@solar.cs.tamu.edu>  
Rendered body type: text/plain

Musta missed that in the haze of committing matrimony (as well as a research proposal to write, cows to track in a field 200+ miles away, 15 hours of school at MY advanced age) :-) I've been busy!

73, gerry

--

|                                                          |                                      |
|----------------------------------------------------------|--------------------------------------|
| Gerry Creager N5JXS                                      | * SAREX Co-Investigator              |
| <a href="mailto:gerry@cs.tamu.edu">gerry@cs.tamu.edu</a> | * A little radio that lets kids talk |
|                                                          | * to astronauts, and smile           |

\*\*\*\*\*

---

#### 196. Re: [APRSSIG:3764] Re: Bit mapped maps

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Tue, 10 Oct 1995 08:13:29 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510101313.IAA16663@solar.cs.tamu.edu>  
Rendered body type: text/plain

Exactly several of the points I was trying to make... especially with the Landsat images. We routinely move the 1/2 GIGABYTE files around the office, register them to map coverages and georeference them. No mean feat. And while some bitmaps are doable (load it and flush memory, then go on with the map overlay, flush again, put breadcrumbs down) it's a fair bit of work.

I'm not sure it's gonna happen soon!

73, gerry

--

|                                                          |                                      |
|----------------------------------------------------------|--------------------------------------|
| Gerry Creager N5JXS                                      | * SAREX Co-Investigator              |
| <a href="mailto:gerry@cs.tamu.edu">gerry@cs.tamu.edu</a> | * A little radio that lets kids talk |
|                                                          | * to astronauts, and smile           |

\*\*\*\*\*

---

#### 197. Re: [APRSSIG:3755] Event Dead Reckoner! (& DX)

From: "Hufford, Kent" <khufford@postmaster2.dot.gov>  
Date: Tue, 10 Oct 95 08:37:54 EST  
To: aprssig@tapr.org  
Message-ID: <9509108133.AA813341470@postmaster2.dot.gov>

Rendered body type: text/plain

YES, I'm using the DX cluster mode and APRS mode.

Yes, the DX cluster mode is animated, and easy to spot trends. But the DX boys mostly do not know of the capability. When I show how APRS can do packet cluster ... they go wow.

However, APRS will not change the freq, mode, etc of the HF radio like MOST DX cluster radio programs do.. lots of folks that are DX cluster users use.

The dead reckoner is a great idea for the Marine Corps Marathon... but thats not a main stream use of APRS.

Kent, KQ4KK

Reply Separator

Subject: [APRSSIG:3755] Event Dead Reckoner! (& DX)

Author: aprssig@tapr.org at postmaster2

Date: 10/8/95 11:59 PM

The GOOD NEWS:

In preparations for the upcoming Marine Corps Marathon, I got the initial code for an automatic special event dead-reckoner to work where it will automatically dead reckon special marked objects along an established course. The course is defined by the color purple on an APRS map. All you do is put the lead runner, lead handicpped, lead female, Pack, and tail end charlie on the map, and they will all move right along on schedule AND MAKE TURNS...

THE BAD NEWS: It wont fit. SOMething has got to be left out.

WHAT TO LEAVE OUT? The biggest chunk of code in APRS that NO ONE EVER REPORTS USING is the DX cluster code. Although I am not a DXer and had never used a DX cluster, I found the APRS DX plotting function to be very interesting to watch and even more animated than watching a conventional APRS net. I just dont understand why no one uses it. Or why we cannot get DXers to try it out...

If I take DX out and make it a separate program, then no one will try it... I need some feedback. If you DO use it, tell me. If you DO monitor DX clusters but DO NOT use APRS, then tell me also. I will assume that EVERYONE else just isnt interested in monitoring DX clusters, so NO NEED TO REPLY and clutter my IN-BOX. Thanks,...

Finally, the MC Marathon is on 22 Oct, and dont expect this code to be releasable until after that. If you are going to be doing a "marathon" type event between now and then, and just HAVE TO HAVE this code, lemme know. Otherwise I should be working on smoehting else next week.

---

## 198. Re: [APRSSIG:3766] DGPS/RTCM SC-104 ?

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Tue, 10 Oct 1995 08:16:53 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510101316.IAA16691@solar.cs.tamu.edu>  
Rendered body type: text/plain

I'm working on something similar here. Let's take this to e-mail for the time being.

A couple of points. Without options A, B and C you won't be able to generate the full SC-104 sentences. You need to have the data for psduorange and pseudorange rate, as well as the corrections, and all the timing data available.

73, gerry

--

Gerry Creager N5JXS  
gerry@cs.tamu.edu

\* SAREX Co-Investigator  
\* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

---

## 199. DGPS/RTCM SC-104 info?

From: s\_paul\_m@main01.rz.uni-ulm.de  
Date: Tue, 10 Oct 95 14:31:14 +0100  
To: "aprssig@tapr.org"@netway.rz.uni-ulm.de  
Cc: S\_PAUL\_M@netway.rz.uni-ulm.de  
Message-ID: <9510101331.AA02824@netway.rz.uni-ulm.de>

Rendered body type: text/plain

Hello!

I wonder if there is anybody in the SIG who can send me complete details of the RTCM SC-104 data format. I want to build RTCM sentences out of the OUTPUT PSEUDORANGE CORRECTION message of a MOTOROLA PVT6 Receiver.

Thanks.

vy 73 de Mike DL3SDM

e-mail: s\_paul\_m@main01.rz.uni-ulm.de

---

## 200. Re: [APRSSIG:3786] Re: Event Dead Reckoner! (& DX)

From: sproul@ap.org (Mark Sproul)  
Date: Tue, 10 Oct 1995 09:53:30 -0400  
To: aprssig@tapr.org  
Message-ID: <v02110103aca02afa8168@[165.1.27.20]>  
Rendered body type: text/plain

> Yes, the DX cluster mode is animated, and easy to spot trends. But the  
>DX boys mostly do not know of the capability. When I show how APRS can do  
>packet  
>cluster ... they go wow.  
>  
> However, APRS will not change the freq, mode, etc of the HF radio like  
>MOST DX cluster radio programs do.. lots of folks that are DX cluster  
>users use.  
>

The Mac version (MacAPRS) will control the radio and will control some of the antenna controllers to automatically point the antenna in the right direction.

Mark

---

|                                 |                       |
|---------------------------------|-----------------------|
| Mark Sproul                     | Amateur Radio: KB2ICI |
| Software Engineer @ Assoc Press | AppleLink: Sproul.M   |
| sproul@eos.ap.org               | Work: 609-860-7120    |
| North Brunswick, NJ             | Fax: 609-860-7129     |
| http://pilot.njin.net/~msproul  |                       |

---

---

## 201. Re: [APRSSIG:3786] Re: Event Dead Reckoner! (& DX)

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Tue, 10 Oct 95 9:53:36 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.813333216.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

>  
>  
> YES, I'm using the DX cluster mode and APRS mode.  
>  
> Yes, the DX cluster mode is animated, and easy to spot trends. But the  
>DX boys mostly do not know of the capability. When I show how APRS can do  
>packet cluster ... they go wow.  
>  
> However, APRS will not change the freq, mode, etc of the HF radio like  
> MOST DX cluster radio programs do.. lots of folks that are DX cluster users  
> use.  
>

MacAPRS will change the frequency of the Radio, It has been able to do this for a LONG time. I will admit that it isn't obvious, but the stuff is there to do it.. It works with ICOM radios and YAESU radios.

Keith Sproul

---

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Keith Sproul                          | Ham Radio: WU2Z                    |
| Student Housing Network Coordinator   | ksproul@noc.rutgers.edu            |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |

**202. Aprs**

From: Curtis\_Allin@WSJK.pbs.org (Curtis Allin)  
 Date: Tue, 10 Oct 1995 09:38:16 +0000 (GMT)  
 To: aprssig@tapr.org  
 Message-ID: <61438.510777@pbs.org>  
 Rendered body type: text/plain

Hello Bob,

Hope you might be able to give me some help. I'm using a old ibm ps2 model 25 to run aprs5.03 the machine has 512k of memory.If i try to run later versions of aprs the machine just gives a out of memory error. So here is my real problem 5.03 seems to run ok but occasionally it crahes and gives me the following error.

```
error number 6
lm,pm:      14      48
a,i,j,k:      2      15
x y x1 y1      297.8686      176.8457      -217.3016      -213.9278
a$
```

Am i doing something wrong in my set-up or is this a error caused by my old computer(512k 8088 micro) ? Any ideas would be greatly appreciated .....

Thanks again for some great software.....

Curtis Allin (KA4AAH)  
 Knoxville,TN  
 Registration # 84583  
 my E-Mail address is Curtis\_Allin@wsjk.pbs.org

**203. Re: [APRSSIG:3782] APRS Archives**

From: Greg Jones <gjones@tenet.edu>  
 Date: Tue, 10 Oct 1995 10:16:16 -0500 (CDT)  
 To: aprssig@tapr.org  
 Message-ID: <199510101516.KAA01653@Leslie-Francis.tenet.edu>  
 Rendered body type: text/plain

send e-mail to listserv@tapr.org

in the message message say

get taprinfo.txt

That should do it.

Cheers - Greg

According to David W. Barrow III:

```
>
> Could some one PLEASE post a "cookbook" explanation for each method??
>
> The entire APRS mail archives is available via the listserv, ftp, and web. Just
> download the messages for the month you need.
>
> Please make the explanation as detailed as possible as some of MY users
> are pretty new at the 'net.
>
> BTW is there an FAQ on APRS? I would post that also.
> Speaking of FAQs - I am amused at the computer name of the main
> storage site...rtfm.mit.edu. I am frequently tempted to tell
> some of MY customers the "Read The F---ing Manual".
>
> 73 de Dave
> CUL & 73 de Dave
> =====
> David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
> U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
> Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.ENG3BI.WI.USA.NOAM
> Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
> =====
>
```

**204. Which rotor should I buy for APRS?**

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)  
 Date: Tue, 10 Oct 1995 11:18:49 -0500







>  
Are these digipeaters on 145.010? I am in Oceanside and use the San Diego  
digi on 145.79 but can usually hear LA quite well. It would be nice if your  
system could link with the San Diego system on Mt. Olay.

Barbara KK6IB  
E-Mail: fehner@cts.com

---

## 208. Re: [APRSSIG:3764] Re: Bit mapped maps

From: Barbara Fehner <fehner@cts.com>  
Date: Tue, 10 Oct 95 14:27 PDT  
To: aprssig@tapr.org  
Message-ID: <m0t2mCm-000V0zC@mailhub.cts.com>  
Rendered body type: text/plain

At 08:11 AM 10/9/95 -0500, you wrote:

>  
>I seriously doubt if Bob can do this successfully on his DOS version of  
>APRS because bit map images take up LOTS of memory.

The Video Display card is already bit mapped. Just address it directly and/or  
use a Ram-disk. It is easier with a Win program than with a port of a Mac  
program.

>LandSat images are MANY MEGABYTES. I have worked with them and have done  
>lots of manipulation with them. They also are not "square". By this I  
>mean you cannot directly map them to a square x:y lat:lon model. There has  
>to be a LOT of math conversion.

>  
. I do not think this is within the  
>realm of real possibilities for the DOS version.  
>  
>Mark

Easy to do with matrix math and the math co-processor or use tensors if you are  
working with an inertial coordinate system such as satellite photos.

Barbara KK6IB  
E-Mail: fehner@cts.com

---

## 209. Re: [APRSSIG:3797] Re: Bit mapped maps

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Tue, 10 Oct 1995 17:32:53 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510102232.RAA28454@solar.cs.tamu.edu>  
Rendered body type: text/plain

Barbara Fehner sez:

>  
> The Video Display card is already bit mapped. Just address it directly and/or  
> use a Ram-disk. It is easier with a Win program than with a port of a Mac  
> program.

It's just this side of REAL difficult with QBasic, but pretty trivial with  
Visual Basic or Visual C. Bob's using QBasic at this point...

> >LandSat images are MANY MEGABYTES. I have worked with them and have done  
> >lots of manipulation with them. They also are not "square". By this I  
> >mean you cannot directly map them to a square x:y lat:lon model. There has  
> >to be a LOT of math conversion.

>  
> Easy to do with matrix math and the math co-processor or use tensors if you are  
> working with an inertial coordinate system such as satellite photos.

Well, it depends. Landsat data are UTM-referenced. We have spent quite a bit  
of time registering them to square maps, using software specifically developed  
to do that task, and it's processor and time intensive. It's NOT a  
straightforward transition, even with a SparcStation.

73, gerry

--

Gerry Creager N5JXS  
gerry@cs.tamu.edu

\* SAREX Co-Investigator  
\* A little radio that lets kids talk  
\* to astronauts, and smile

\*\*\*\*\*

---

## 210. Re: [APRSSIG:3795] APRS in So. Ca

From: jan@archimedes.vislav.navy.mil (Jan A. Barglowski)  
Date: Tue, 10 Oct 1995 15:35:20 -0700  
To: aprssig@tapr.org  
Message-ID: <v01520d05aca042bcc6d1@[129.131.31.10]>  
Rendered body type: text/plain

>In Northern California, the APRS frequency is 145.010 MHz.

145.01 is recognized as a keyboard-to-keyboard frequency by the Southern California Digital Communications Committee (SCDCC). Many users are working to get the SCDCC to recognize 145.79 as a APRS frequency. This will come about in time, as 145.79 was previously recognized as a simplex autopatch channel in the LA area.

>  
>Based on this, and that my QTH in So. Ca. is at the 5600' level, I have set  
>up stations in the SF bay area, and Southern California to promote APRS  
>activity. They digipeat through the San Joaquin Valley down to the high  
>desert (Lancaster, Palmdale) to foster activity in APRS. My So Ca. station  
>"favors" the high desert (somewhat shielded from the LA basin) but does get  
>into the San Bernardino/Riverside area as well as certain parts of Palos  
>Verdes (the hill between LAX and Long beach).  
>  
>After starting this 2+ months ago, several bay area stations (and including  
>a station in Monterey) are now digipeating thru this same path (about a 400+  
>mile path). A new station from the bay area posts nearly every weekend.  
>Activity in the San Joaquin valley and the high desert has also taken off,  
>as I logged a station near the Lemoore NAS this weekend, and no less than  
>three stations in the high desert area (including one in China Lake) in the  
>same time.

>  
>While this will not address the needs of the stations in the general LA  
>area, those of you that live in "unserved" areas of the lower half of  
>California should take heart that something is available for you in APRS!

This path is very cool news to me in Ridgecrest! But I'd like to mention that we (meaning outside of LA) don't have a problem putting up stuff on 145.79. Since the 145.01 channel is used for keyboard use, and in my area is quite congested as is, I'm putting up a digi on 145.79. I'm hoping to put it on El Paso Peak (where the IYK node resides), which can be heard in the Ca high-desert area. Maybe we can link in the 145.79 to the 145.01 APRS traffic?

I'll see you on 145.01 tonite :-)

73, jan  
kc6uth

---

## 211. Wx info updates, N key...

From: "David G. Henderson" <daveh@moose.erie.net>  
Date: Tue, 10 Oct 1995 19:01:55 -0300  
To: aprssig@tapr.org  
Message-ID: <m0t2nhc-000g1yC@moose.erie.net>  
Rendered body type: text/plain

Bob,

When using the N key to display wx info for a particular station, is that station's data supposed to be updated in the three-line, blue box at the bottom of the screen?

The top blue box is being updated correctly now. But none of the info in the bottom box lines change when the update appears on top. Maybe it's not supposed to.

Enlighten us.

73, Dave, N3E0Y

---

## 212. Re: [APRSSIG:3721] APRSat

From: BAIRDBAIRD@aol.com  
Date: Tue, 10 Oct 1995 19:04:06 -0400  
To: aprssig@tapr.org  
Message-ID: <951010190402\_120760938@mail06.mail.aol.com>  
Rendered body type: text/plain

Sounds great! Count me in if anything I can help with/ drawings, models, docs, gofer, etc. Perhaps Fred Betz can get some folks at the anechoic

chamber fired up for space qualification tests. There's a lot more to it than throwing a tnc out the shuttle window hi!  
There's a lot of space qualified people between Goddard, NRL, APL in this area. Hope it happens. 73's N3MKP

---

### 213. Re: [APRSSIG:3729] Re: APRS Sat

From: dwetzel@acs.uswest.com  
Date: Tue, 10 Oct 1995 17:47:25 -0500  
To: aprssig@tapr.org  
Message-ID: <07aefce0@acmspgw1.mnet.uswest.com>  
Rendered body type: text/plain

APR REPLY: THANKS BUT NO THANKS!!!! HI HI. THIS WILL BE A NAVAL ACADEMY PROJECT AND FUNDING WILL NOT BE A PROBLEM. THE PROBLEM will be my time. Do not send me any bucks. I'd have to send it back, hi hi

Bob -

You can count on me for whatever ground support I can offer - I'm planning on demo'ing ham radio in space for my youngest daughter's class during that mission and am ecstatic about the APRS opportunity! Hope we can get the same participation that the MS test saw last summer!

Thousands of Thanks for your efforts!!

Doug  
KC7CO

---

### 214. Re: [APRSSIG:3740] APRsat

From: dwetzel@acs.uswest.com  
Date: Tue, 10 Oct 1995 17:55:02 -0500  
To: aprssig@tapr.org  
Message-ID: <07af1990@acmspgw1.mnet.uswest.com>  
Rendered body type: text/plain

The objective of the APRsat is to relay very short UI frame packets containing position reports of the form WB4APR>FM19dx-1:\*status\*. These packets contain the Maidenhead Grid Square in the T0 field and result in a very short packet. To do this, all we need is a standard TNC digipeater. The AMSAT APRtrak program will plot these position reports on a map. Beyond these fundamental requirements, here are some other considerations and enhancements:

- 1) Downlink on 2 meters ax.25 1200 baud FM
- 2) Uplink on 2 meters (if possible) else 435
- 3) Use PacComm TNC which has 4 analog telemetry inputs and 2 outputs for basic telemetry.
- 4) No other CPU on board. Hardware reset of TNC at each sunrise.
- 5) Modify TNC code so no digipeater field is used. Digipeat based on the T0-SSID. This would allow for 15 different addressable APRsats on the SAME frequency and save 8 BYTES or 33% of every packet! ALL APRsats would digipeat -0 packets.
- 6) Avoid abuse by modifying TNC to restrict digipeats to POSITs only
- 7) Put a GPS on board to report satellites position.
- 8) Modify the TNC so that it will only DIGI ONE packet per call per orbit
- 9) Modify TNC heard log to include POSIT and interleave previously heard posits from up to 80 minutes prior into downlink so stations can see posits from other side of world (on same orbit)

The biggest problem and earliest one that must be solved is the FREQUENCY PLAN. As an educator, I think that DOVE is one of the BEST investments of the AMSATS due to its simplicity and availability to students worldwide. That is why the APRSat downlink should be on 2 meters. But looking at the difficulty in getting MIR and SAREX frequencies, this may be a problem. As a starter, would it make sense to re-use 145.55? The probability of interfering with MIR or SAREX on that frequency is only around 1 % and if we don't re-use that frequency in SPACE, then the terrestrial packet users will...

-----

How about 145.825 for the downlink and 145.55 for the uplink? No downlink interference for Mir or Sarex, and minimal uplink damage, as Mir is the only 145.55 uplink in use, and that usually only when visible.

Doug  
KC7CO

---

## 215. Re: [APRSSIG:3796] Re: APRS in So. Ca

From: jkeck@smartlink.net (james keck)  
Date: Tue, 10 Oct 1995 18:37:40 -0700  
To: aprssig@tapr.org  
Message-ID: <199510110136.SAA21759@warp10.smartlink.net>  
Rendered body type: text/plain

The APRS activity in So. CA picked up this past weekend on 145.790. Someone activated a WIDE and from my obscure location in the Northern part of LA Country, I logged a page and a half of APRS locations. I recorded several stations on the East Coast from two in FL to a station in Canada, a few in the Mid-West and even logged Dave in Hawaii. San Diego was well represented with about 10 stations.

So. CA is coming alive. If anyone happened to see either N6HNY or K060N we would sure appreciate hearing about it. Our thanks go to the individual who set up that WIDE digi, it sure helped make an interesting Sunday afternoon.

73...Jim..N6HNY

---

## 216. Marathon Race

From: jkeck@smartlink.net (james keck)  
Date: Tue, 10 Oct 1995 18:37:42 -0700  
To: aprssig@tapr.org  
Message-ID: <199510110136.SAA21763@warp10.smartlink.net>  
Rendered body type: text/plain

Our local community has undertaken a major project, in that they are planning to sponsor and hold a full Marathon Run on November 12th. You guessed it, our local radio club has been asked to provide some of the communications support for the event. Some of the thoughts centered around APRS and how it could be best used to provide timely information.

I would appreciate any information that any of you might provide who have done that and been there. We have barely been able to scratch the surface in using APRS to its full extent (ref: SoCA Activity msgs) here in Southern CA.

If anyone has some compact sending units that we might borrow for the event, we would be indebted to you and greatly appreciate your assistance. Rest assured that any equipment would be well taken care of while in my possession.

Please respond direct rather than taking up SIG space for individual replies.

If anyone lives close enough and wants to personally provide some direct support on this project, please mention that in your reply. This Marathon will be held in the Santa Clarita Valley, Northern LA County, near the Magic Mountain Amusement Park.

The Race Director plans to start the event at 0700 and conclude it by 1400 or the runners become spectators. The lead vehicle may be a motorcycle as some parts of the course are not on city streets.

Thanks in advance if I am unable to respond directly to all of you who send along your comments and suggestions.

73, Jim Keck, N6HNY  
SCDCC Director, Santa Clarita Amateur Radio Club  
Newsletter Editor, (same)  
Member, Disaster Communications Service

---

## 217. Re: [APRSSIG:3800] Wx info updates, N key...

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 10 Oct 1995 22:22:21 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951010222124.13625D-100000@greatlakes>  
Rendered body type: text/plain

On Tue, 10 Oct 1995, David G. Henderson wrote:

> The top blue box is being updated correctly now. But none of the info in  
> the bottom box lines change when the update appears on top. Maybe it's not  
> supposed to.

Correct, the bottom line is only updated when you hook a station.

---

## 218. re APRSat freqs

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 10 Oct 1995 22:34:09 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951010223253.13625F-100000@greatlakes>  
Rendered body type: text/plain

I agree that 145.825 would be an ideal downlink, since everyone is already listening on that freq with 1200 baud AX.25 for DOVE...

---

## 219. MFJ TNC with TAPR GPS EPROM to Garmin 45 Interface -- Update 2

From: "L. J. Shepherd" <ljs@west.net>  
Date: Tue, 10 Oct 1995 19:49:20 -0700  
To: aprssig@tapr.org  
Message-ID: <199510110252.TAA25010@acme.sb.west.net>  
Rendered body type: text/plain

Hello Group:

Many thanks to all who responded, including Bob, Howie, Rich, Ted, Ralph and several others. The problem is solved.....and the TAPR 1.1.9 EPROM in my MFJ 1270B

is now nicely controlling in the NMEABCN mode.

I must admit that I fell prey to the old DCE/DTE trap.....one of you kind gentlemen suggested that I double-check DCE/DTE, which I did, and immediately saw my error. I quickly installed my trusty null-modem adapter and my system promptly began to beacon position packets !

Here are some of the final parameter settings that I used with the MFJ1270B and the GARMIN GPS45, in the interest of providing some feedback to all who might be interested in using the TAPR 1.1.9 EPROM in their TNC-2's:

NMEABCN 3, NMEAFLT1 GPGBA, CONMODE CONVERSE, SENDPAC \$0D, CR ON, LFIGNORE OFF  
FLOW ON, CPACTIME OFF, ECHO ON, BEACON EVERY 0

In my system the first position beacon now occurs 30 seconds after power-on and thereafter at the selected 30 sec (NMEABCN 3) interval. As a point of information, enabling the 'normal' TNC BEACON results in the transmission of a beacon packet immediately at power-on. This BEACON packet is not to be confused with the NMEABCN packets containing the GPS-derived position data. Once NMEABCN is enabled, the TNC will beacon at power-on after the selected interval without the need for any computer input or other reset commands.

Thanks again to all who so kindly responded.....73, Jim K6OYY  
TAPR 502

---

## 220. Re: [APRSSIG:3796] Re: APRS in So. Ca

From: BenW55R@aol.com  
Date: Wed, 11 Oct 1995 01:26:53 -0400  
To: aprssig@tapr.org  
Message-ID: <951011012652\_41521949@emout06.mail.aol.com>  
Rendered body type: text/plain

It would be nice if there was a generic gateway name such as VGATE? for a gateway between two vhf frequencies such as 145.01 and 145.79. We are going to put a local node on 145.79 here in Amarillo, TX in the near future, but why try to rebuild the 01 network on 79 in sparsely populated areas around the city to let mobiles get in from outlying areas? Any ideas on this.

73 Ben W55R

---

## 221. Re: [APRSSIG:3808] MFJ TNC with TAPR GPS EPROM to Garmin 45 Interface -- Update 2

From: John Hobson <jhobson@west.net>  
Date: Tue, 10 Oct 1995 22:54:31 -0700  
To: aprssig@tapr.org  
Message-ID: <199510110554.WAA05688@acme.sb.west.net>  
Rendered body type: text/plain

Hello APRSsig:

With the help of fellow Santa Barbarian, K6OYY, I've completed mating the Garmin GPS45 with the AEA PK-12 for stand-alone tracking use in a vehicle (without a computer running APRS). I learned the following things with OYY's help and trial and error.

1. The interface between the GPS-45 and PK-12 requires only two connections

|          |                |               |                                 |
|----------|----------------|---------------|---------------------------------|
| GPS45    | *              | PK-12 (DB-25) |                                 |
| Data Out | --brown----    | Pin 2         | * wire color on Garmin supplied |
| Ground   | -----black---- | Pin 7         | cable-plug assembly.            |

2. A good source of power for the GPS-45 is via the PK-12. On the underside of the PK-12 circuit board, tie together the pad of DB-25 pin 9 or 11 and the nearby large pad of the center pin of the power jack with approximately 20mm of insulated wire.

Then, add:

|       |              |               |  |
|-------|--------------|---------------|--|
| GPS45 | *            | PK-12 (DB-25) |  |
| Power | -----red---- | Pin 9 or 11   |  |

This will provide 12 unswitched volts to the GPS45 when the PK-12 is plugged into its 12 v source.

3. I have had some trouble with the PK-12 forgetting the commands input into it from the computer. The procedure is to attach the PK-12 to the computer via a serial port and issue the commands to prepare the PK-12 for stand alone use. Then, switch the pk-12 off, disconnect it from the power, and transfer it to the vehicle, applying vehicle power. My PK-12 is jumpered correctly for the Li battery to maintain the memory, however on many occasions, between the shack and the car, the PK-12 has forgotten what has been input. Removing and re-applying (rocking?) the jumper (JP 1) seems to have helped this problem.

With this exception, the mating of these two pieces of equipment seems to be straight-forward.

The only high level digipeater here in SB is 145.05 on La Cumbre Peak. K60YY and

I have been tracking each other on this machine with some success.

Regards and thanks for your postings on APRSsig.

John Hobson, N6EGY.  
Santa Barbara  
John D. Hobson, N6EGY  
Santa Barbara, CA

---

## 222. Garmin FAQ posted

From: "PETER L. LASCELL" <LASCELL@lecs.ericsson.se>  
Date: Wed, 11 Oct 1995 14:23:02 +0100  
To: aprssig@tapr.org  
Message-ID: <01HWBF6H1L1U8X5D0Q@edt.ericsson.se>  
Rendered body type: text/plain

A revised Frequently Asked Questions about Garmin GPS 45 and GPS 40 has been posted on Newsgroups: sci.geo.satellite-nav. It is dated Oct 10, 1995. The file is about 90K, 40 pages printed. KE7UT compiled the FAQ.

---

## 223. Re: [APRSSIG:3809] Re: APRS in So. Ca

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 11 Oct 1995 09:30:23 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951011092700.3574B-100000@greatlakes>  
Rendered body type: text/plain

On Wed, 11 Oct 1995 BenWS5R@aol.com wrote:

> It would be nice if there was a generic gateway name such as VGATE? for a  
> gateway between two vhf frequencies such as 145.01 and 145.79. We are going  
> to put a local node on 145.79 here in Amarillo, TX in the near future, but  
> why try to rebuild the 01 network on 79 in sparsely populated areas around  
> the city to let mobiles get in from outlying areas? Any ideas on this.

APR REPLY: COnsider it done. But how? Maybe the KPC-2 has dual VHF ports?

---

## 224. aprs problem

From: DRoy1952@aol.com  
Date: Wed, 11 Oct 1995 10:14:30 -0400  
To: aprssig@tapr.org  
Message-ID: <951011101429\_41687743@emout06.mail.aol.com>  
Rendered body type: text/plain

Hello, Bob just installed version aprs73a, I am having problems with using with my aea pk232 tnc. I read the readme text, and seems as thou I configured the tnc as requested. but I can't receive any packet burst to show other aprs stations that I know are sending packet burst back, they are receiving my burst ok, but all I get in the red box on the bottom of my screen on aprs is scrambled text and characters. when I connect to a friend of mine using aprs also. My aea goes into conv/error mode when accessed by your program. and when I quit the aprs it resets my tnc back ok to other commands that were previously set. tnc is working ok on dumb terminal also. any help would be appreciated, will be sending in registration fee shortly. Thank You  
signed, Dan Roy kalbno.

---

## 225. Re: [APRSSIG:3808] MFJ TNC with TAPR GPS EPROM to Garmin 45

From: dwetzel@acs.uswest.com  
Date: Wed, 11 Oct 1995 10:04:24 -0500  
To: aprssig@tapr.org  
Message-ID: <07bd4c10@acmspgw1.mnet.uswest.com>  
Rendered body type: text/plain

Hello Group:

Many thanks to all who responded, including Bob, Howie, Rich, Ted, Ralph and several others. The problem is solved.....and the TAPR 1.1.9 EPROM in my MFJ 1270B is now nicely controlling in the NMEABCN mode.

I must admit that I fell prey to the old DCE/DTE trap.....one of you kind gentlemen suggested that I double-check DCE/DTE, which I did, and immediately saw my error. I quickly installed my trusty null-modem adapter and my system promptly began to beacon position packets !

Here are some of the final parameter settings that I used with the MFJ1270B and the GARMIN GPS45, in the interest of providing some feedback to all who might be interested in using the TAPR 1.1.9 EPROM in their TNC-2's:

NMEABCN 3, NMEAFLT1 GPGBA, CONMODE CONVERSE, SENDPAC \$0D, CR ON, LFIGNORE OFF  
FLOW ON, CPACTIME OFF, ECHO ON, BEACON EVERY 0

In my system the first position beacon now occurs 30 seconds after power-on and thereafter at the selected 30 sec (NMEABCN 3) interval. As a point of information, enabling the 'normal' TNC BEACON results in the transmission of a beacon packet immediately at power-on. This BEACON packet is not to be confused with the NMEABCN packets containing the GPS-derived position data. Once NMEABCN is enabled, the TNC will beacon at power-on after the selected interval without the need for any computer input or other reset commands.

Thanks again to all who so kindly responded.....73, Jim K6OYY  
TAPR 502

-----

Jim - can you pass along a quickie diagram of your cabling for my config library? Thanks!

Doug  
KC7CO

---

## 226. VGATE

From: mark@tetherless.com (Mark Oppenheim)  
Date: Wed, 11 Oct 1995 09:50:19 -0700  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <199510111650.JAA04066@gorgor.pa.tetherless.com>  
Rendered body type: text/plain

At 08:46 AM 10/11/95 -0500, Bob Bruninga wrote:

>

>On Wed, 11 Oct 1995 BenW55R@aol.com wrote:

>

>> It would be nice if there was a generic gateway name such as VGATE? for a  
>> gateway between two vhf frequencies such as 145.01 and 145.79. We are going  
>> to put a local node on 145.79 here in Amarillo, TX in the near future, but  
>> why try to rebuild the 01 network on 79 in sparsely populated areas around  
>> the city to let mobiles get in from outlying areas? Any ideas on this.

>

>APR REPLY: COnsider it done. But how? Maybe the KPC-2 has dual VHF ports?

>

The KPC-2 is only a single port unit.

Their (Kantronics) KPC-4 (which you were probably thinking of) has 2 1200 baud ports, as I recall.



It could also be done on the Dataengine, when two 1200 baud modems are installed. Or on the other dual port boxes from AEA.

Another solution, would be to have APRS address two TNC ports, (I can hear the crying now: "Where do I connect the mouse to!?", "How come it don't support weird IRQ's") and of course operators have to make sure that if they gate in the same band, they isolate the radios from each other (filters, vertical antenna spacing, etc.), so that they don't QRM each other out.

Mark

```
-----
Mark Oppenheim                      Internet:  MARK@TETHERLESS.COM
Tetherless Access Limited           Voice:    415-843-6880 x18
2468 Embarcadero Way               Fax:      415-843-6890
Palo Alto, California 94303  USA
```

Visit our WWW site! <http://www.tetherless.net/>

---

## 227. Re: [APRSSIG:3797] Re: Bit mapped maps

From: sproul@ap.org (Mark Sproul)  
Date: Wed, 11 Oct 1995 13:17:11 -0400  
To: aprssig@tapr.org  
Message-ID: <v02110107aca1abc6e99b@[165.1.27.20]>  
Rendered body type: text/plain

Barbara Fehner wrote:

>>  
>  
>The Video Display card is already bit mapped. Just address it directly  
>and/or use a Ram-disk. It is easier with a Win program than with a port  
>of a Mac program.  
>

Barbara,

Do you know how to program a Mac? Do you know how to program Windows?  
Well, I make my living programming the Mac but I know how to program  
Windows as well. And for the most part, they are very similar. When  
programing graphics on Windows, IF you do it the right way, then it is  
ALMOST identical to the way that it is done on the Mac.

Many Windows/DOS programers write directly to the video screen, while this  
works in some case, it is NOT the right way to do it. It is also why so  
many of the DOS/Windows programs are so picky and dont run if you dont have  
EXACTLY what the program is expection (normally 640 x 480 by 16 color)

>> Mark wrote:  
>>  
>>LandSat images are MANY MEGABYTES. I have worked with them and have done  
>>lots of manipulation with them. They also are not "square". By this I  
>>mean you cannot directly map them to a square x:y lat:lon model. There has  
>>to be a LOT of math conversion.  
>>  
>> I do not think this is within the realm of real possibilities for  
>>the DOS version.  
>>  
>  
>Barbara Fehner wrote:  
>  
>Easy to do with matrix math and the math co-processor or use tensors if you  
>are working with an inertial coordinate system such as satellite photos.

>In a response to Barbara's comments Gerry Creager wrote:  
>  
>Well, it depends. Landsat data are UTM-referenced. We have spent quite a  
>bit of time registering them to square maps, using software specifically  
>developed to do that task, and it's processor and time intensive. It's  
>NOT a straightforward transition, even with a SparcStation.  
>

Thanks Garry for backing me up on this point. One of the points that Bob  
keeps bringing up over and over again is "Yes, but APRS will still run on  
an 8088 lap top". If we want to have some of these new features, at some  
point we have to say, "Sorry, this version needs a cpu of at least x

caliber"

Mark Sproul  
MacAPRS co-author  
(the guy behind the scenes that makes lots of the bells and whistles work,  
also the guy that is porting MacAPRS to Windows)

---

|                                 |                       |
|---------------------------------|-----------------------|
| Mark Sproul                     | Amateur Radio: KB2ICI |
| Software Engineer @ Assoc Press | AppleLink: Sproul.M   |
| sproul@eos.ap.org               | Work: 609-860-7120    |
| North Brunswick, NJ             | Fax: 609-860-7129     |
| http://pilot.njin.net/~msproul  |                       |

---

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## 228. Radio Shack HTX-202 on sale until Oct 28.

From: Larry Griffin <largriff@onramp.net>  
Date: Wed, 11 Oct 1995 15:55:14 -0500  
To: "'aprssid@tapr.org'" <aprssid@tapr.org>  
Message-ID: <01BA97F2.3A8B56C0@lub15.onramp.net>  
Rendered body type: text/plain

I just noticed that Radio Shack has their HTX-202 2m Handheld Transceivers now on sale for \$199 until October 28 (normally \$259). This might be a good time to pick one up for the PacketMobiles!

Larry (not affiliated with Radio Shack)

---

## 229. 100k mapmaker

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 11 Oct 1995 21:44:57 -0400 (EDT)  
To: aprssid@tapr.org  
Message-ID: <Pine.SUN.3.91.951011213937.17529E-100000@greatlakes>  
Rendered body type: text/plain

Just to keep you a breast of happenings, I got BETA version number 2 of KB4XF's latest ONE STEP mapmaking program for the 100K maps. It automatically decides what level of detail to extract depending on wheter you ask for an 8, 4 or 2 mile map!

Just extract the USGS files for your area, run the program, and come back in a half hour or so, and your map is done...

BUT, I SENT IT BACK TO HIM, cuz it generates perfect maps, but they are offset from the real world by distances of 1/4 to 1/2 mile depending on range.... So to let even a BETA test copy out would be a nightmare...

No need to comment, ill let you all know as soon as he fixes this remaining bug.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

---

## 230. Re: [APRSSIG:3812] Re: APRS in So. Ca

From: BenW5SR@aol.com  
Date: Wed, 11 Oct 1995 21:44:46 -0400  
To: aprssid@tapr.org  
Message-ID: <951011214441\_73206248@mail06.mail.aol.com>  
Rendered body type: text/plain

I was thinking, shouldn't be but I was, of two or more tnc's running X-1J NETROM. As I understand it you can do two with a serial cable between them and more than two using a diode matrix? It would save us and I'm sure others from having to completely rebuild the outlying network, but allow us to keep the majority of the traffic of the busy channels. Although some in the area like it on the regular channels and say we (those of us running APRS' in the area) should take over all the packet freqs here due to the fact we have put a new spark into packet radio. Appreciate the program Bob.  
It may be avantagous to be able to link more than two tnc's to get back on 79 as our northern network is on 01 and the southern one is on 09. Should only need one VHF alias due to the traffic only going from 01 and/or 09 to 79. There should be very little traffic going back to 01 or 09 from 79. Bye keeping it APRS specific it would keep the BBS's off of 79 and keep most APRS off the others.

73 BenW5SR@aol.com 3514.12N/10149.54W

---

## 231. MFJ1270B to Garmin GPS-45 Cabling

From: "L. J. Shepherd" <ljs@west.net>  
Date: Wed, 11 Oct 1995 19:17:42 -0700

To: aprssig@tapr.org  
Message-ID: <199510120218.TAA08389@acme.sb.west.net>  
Rendered body type: text/plain

Doug and Group:

Here is the simple cable interface for the MFJ-1270B TNC to the  
Garmin GPS-45, as requested:

GARMIN GPS-45 to MFJ1270B TNC (TAPR 1.1.9 EPROM)  
STAND-ALONE MODE CABLE (no computer)

GPS-45 Cable                                      1270B TNC DB25 Connector

Brown (data out)----- Pin 2 (transmit data)

Black (ground) ----- Pin 7 (ground)

Hope this is of some use.....73, Jim K60YY TAPR 502

---

## 232. RE: [APRSSIG:3819] Re: APRS in So. Ca

From: Larry Griffin <largriff@onramp.net>  
Date: Thu, 12 Oct 1995 09:31:21 -0500  
To: "'aprssig@tapr.org'" <aprssig@tapr.org>  
Message-ID: <01BA9886.1FB7F8A0@lub12.onramp.net>  
Rendered body type: text/plain

-----  
From: BenWS5R@aol.com[SMTP:BenWS5R@aol.com]  
Sent: Wednesday, October 11, 1995 9:10 PM  
To: aprssig@tapr.org  
Subject: [APRSSIG:3819] Re: APRS in So. Ca

I was thinking, shouldn't be but I was, of two or more tnc's running X-1J  
NETROM. As I understand it you can do two with a serial cable between them  
and more than two using a diode matrix? It would save us and I'm sure others  
from having to completely rebuild the outlying network, but allow us to keep  
the majority of the traffic of the busy channels. Although some in the area  
like it on the regular channels and say we (those of us running APRS' in the  
area) should take over all the packet freqs here due to the fact we have put  
a new spark into packet radio...

-----  
It would be easily accomplished by using a KPC-4. It works exactly like a KAM except that both ports  
are 1200 baud. So all you need to do is put one port on .01 and the other on .79 and set MYGATE VGATE.  
I used to own a KPC-4, but sold it about a year ago... now I wish I had it back!

Larry

---

## 233. Re: [APRSSIG:3820] MFJ1270B to Garmin GPS-45 Cabling

From: dwetzel@acs.uswest.com  
Date: Thu, 12 Oct 1995 08:36:58 -0500  
To: aprssig@tapr.org  
Message-ID: <07d11cd0@acmspgw1.mnet.uswest.com>  
Rendered body type: text/plain

Doug and Group:

Here is the simple cable interface for the MFJ-1270B TNC to the  
Garmin GPS-45, as requested:

GARMIN GPS-45 to MFJ1270B TNC (TAPR 1.1.9 EPROM)  
STAND-ALONE MODE CABLE (no computer)

GPS-45 Cable                                      1270B TNC DB25 Connector

Brown (data out)----- Pin 2 (transmit data)

Black (ground) ----- Pin 7 (ground)

Hope this is of some use.....73, Jim K60YY TAPR 502

-----

Thanks Jim - it's in the file!

Doug

---

## 234. Re: [APRSSIG:3812] Re: VGATES in So. Ca

From: WA1YKN@aol.com  
Date: Thu, 12 Oct 1995 12:51:56 -0400  
To: aprssig@tapr.org  
Message-ID: <951012125153\_42771883@emout05.mail.aol.com>  
Rendered body type: text/plain

Bob sez maybe the KPC-2 for dual VHF ports ?

Not the KPC-2 but the KPC-4 for dual VHF ports, this will work very well as a cross frequency or VHF/UHF cross band digi. The KPC-2 is the older version of the KPC-3 concept whereas the KPC-4 is similar to the KAM, but is dual VHF ports...

73, Mitch, WA1YKN ...

---

## 235. (no subject)

From: WA1YKN@aol.com  
Date: Thu, 12 Oct 1995 12:52:29 -0400  
Message-ID: <199510121652.MAA26185@emout05.mail.aol.com>  
Rendered body type: text/plain

n Interface

Where can one get the eeprom image or source for the TAPR TNC2 EPROM V1.1.9 with the GPS code for the TNC2 ??? I would love to try this in a old MFJ 1270B I have sitting on the shelf ...

TNX, 73, Mitch, WA1YKN...

---

## 236. TAPR 1.1.9 EEPROM Code

From: mark@tetherless.com (Mark Oppenheim)  
Date: Thu, 12 Oct 1995 10:38:12 -0700  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <199510121738.KAA27018@gorgor.pa.tetherless.com>  
Rendered body type: text/plain

At 12:02 PM 10/12/95 -0500, WA1YKN@aol.com wrote:

>n Interface

>

>Where can one get the eeprom image or source for the TAPR TNC2 EPROM V1.1.9  
>with the GPS code for the TNC2 ??? I would love to try this in a old MFJ  
>1270B I have sitting on the shelf ...

>

> TNX, 73, Mitch, WA1YKN...

Unfortunately, you'll have to get it direct from TAPR, they don't just give that code away anymore. It's about \$15.00 for members + you get the big manual of commands.

TAPR  
POB 51114  
Denton Tx. 76206

Phone:  
817-383-0000

---

|                                 |                               |
|---------------------------------|-------------------------------|
| Mark Oppenheim                  | Internet: MARK@TETHERLESS.COM |
| Tetherless Access Limited       | Voice: 415-843-6880 x18       |
| 2468 Embarcadero Way            | Fax: 415-843-6890             |
| Palo Alto, California 94303 USA |                               |

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## 237. Re: [APRSSIG:3815] VGATE

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)  
Date: Thu, 12 Oct 1995 12:16:40 -0700  
To: aprssig@tapr.org  
Message-ID: <v01520d00aca2b790d894@[129.131.31.10]>  
Rendered body type: text/plain

>At 08:46 AM 10/11/95 -0500, Bob Bruninga wrote:

>>

>>On Wed, 11 Oct 1995 BenWS5R@aol.com wrote:

>>

>>> It would be nice if there was a generic gateway name such as VGATE? for a  
>>> gateway between two vhf frequencies such as 145.01 and 145.79. We are going  
>>> to put a local node on 145.79 here in Amarillo, TX in the near future, but

>>> why try to rebuild the 01 network on 79 in sparsely populated areas around  
>>> the city to let mobiles get in from outlying areas? Any ideas on this.  
>>  
>>APR REPLY: COnsider it done. But how? Maybe the KPC-2 has dual VHF ports?  
>>  
>  
>The KPC-2 is only a single port unit.  
>  
>Their (Kantronics) KPC-4 (which you were probably thinking of) has 2 1200  
>baud ports, as I recall.  
>

The KPC-4 sounds like a good idea, as I can't really put a PC on the hilltop running APRS. The other option of putting TheNet EPROMs is better in my case, as I could then connect to the existing 145.01 NETROM node on the hilltop. The next question: Can you digi thru a NETROM node stack, meaning digi from the 145.01 out to the 145.79 node? Of course, you can connect thru the stack with the NETROM protocol or by connecting manually to each node in turn, but I've never tried to digi...

73, jan  
kc6uth

---

## 238. Motorola PVT-6 Program ?

From: mark@tetherless.com (Mark Oppenheim)  
Date: Thu, 12 Oct 1995 13:59:06 -0700  
To: aprssig@tapr.org  
Message-ID: <199510122059.NAA00862@gorgor.pa.tetherless.com>  
Rendered body type: text/plain

Does anyone know how to get the PVT6 GPS out of the Motorola Binary format and output NMEA strings?

As I recall, there is a web page with a number of programs on it (primarily for the Garmin) but it also contained a Motorola PVT-6 initialization program.

Thanks!

Mark

---

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Mark Oppenheim                  | Internet: MARK@TETHERLESS.COM        |
| Tetherless Access Limited       | Voice: 415-843-6880 x18              |
| 2468 Embarcadero Way            | Fax: 415-843-6890                    |
| Palo Alto, California 94303 USA |                                      |
|                                 | Tech Support: SUPPORT@TETHERLESS.COM |

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---

## 239. Re: [APRSSIG:3819] Re: APRS in So. Ca

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 12 Oct 1995 17:23:43 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951012171253.3448A-100000@greatlakes>  
Rendered body type: text/plain

The ONLY reason for suggesting 145.79 as a standard frequency is so that mobiles can put XTAL controlled Stand Alone Trackers in their Trunks and go anywhere without having to change freqs.

Considering that objective, there may be a half-way solution for areas that have conflicts on 145.79. Have your HIGH SITE WIDE DIGIS listen on 145.79 but OUTPUT on any other freq that you can get coordinated.

Mobiles only have a range of a few miles to other stations, so they probably will not bother existing users even 5% of what a WIDE DIGI OUTPUTING on 145.79 would.

DOWNSIDE: The downside probably out weights any advantages tho:  
1) Doesnt help visitors find teh OUTPUT freq to monitor

- 2) Requires everyone to operate DUPLEX
- 3) YOU LOOSE CARRIER DETECT COLLISION AVOIDANCE
- 4) You cannot go DIGI to DIGI without requiring dual receivers and dual transmitters,
- 5) etc, etc

So the only reason I suggested this, is that even in areas which have chosen alternate frequencies, it wont HURT them, nor create any TURF wars if you also add a 145.79 RECEIVER at your WIDE site, so that wandering mobiles will show up in your net..... Remember, they are on the ground, and hardly ANYONE will hear them direct...

Just a thought....

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

---

## 240. Re: [APRSSIG:3827] Motorola PVT-6 Program ?

From: rtm@Newton.apple.com (Bob Martin)  
Date: Thu, 12 Oct 1995 14:41:39 -0700  
To: aprssig@tapr.org  
Message-ID: <v02130501aca33afa52f4@[17.205.12.199]>  
Rendered body type: text/plain

>Does anyone know how to get the PVT6 GPS out of the Motorola Binary format  
>and output NMEA strings?  
>  
>As I recall, there is a web page with a number of programs on it (primarily  
>for the Garmin) but it also contained a Motorola PVT-6 initialization program.  
>  
>Thanks!  
>

Here's the line copied from my hypercard stack for dealing with the PVT-6:  
sendSPort "@@Ci" & numtochar(1) & numtochar(43) & crlf

The command is "@@Ci" followed by a binary 1 for NMEA mode, the message checksum, and a cf/lf pair.

The corresponding command to go from NMEA to Moto proprietary mode is:  
\$PMOTG,F0R,0

Remember that you also have to switch baud rates, so it's a \*good idea\* to wait for the transmit data buffer to go completely empty, and then switch baud rates on your port.

73-

--  
Bob Martin N6MZV       \* rtm@newton.apple.com  
                      \* N6MZV @ N0ARY.#NOCAL.CA.USA.NOAM

---

## 241. Re: [APRSSIG:3827] Motorola PVT-6 Program ?

From: rwf <rwf@mindspring.com>  
Date: Thu, 12 Oct 1995 17:45:42 -0400  
To: aprssig@tapr.org  
Message-ID: <199510122145.RAA08141@dylan.mindspring.com>  
Rendered body type: text/plain

How about my page, <http://www.mindspring.com/~rwf>  
Lots of Motorola /Garmin/APRS stuff there!

Ralph Fowler

At 04:00 PM 10/12/95 -0500, you wrote:  
>Does anyone know how to get the PVT6 GPS out of the Motorola Binary format  
>and output NMEA strings?  
>  
>As I recall, there is a web page with a number of programs on it (primarily  
>for the Garmin) but it also contained a Motorola PVT-6 initialization program.  
>  
>Thanks!  
>

```

>Mark
>
>-----
> Mark Oppenheim                Internet:  MARK@TETHERLESS.COM
> Tetherless Access Limited      Voice:    415-843-6880 x18
> 2468 Embarcadero Way          Fax:      415-843-6890
> Palo Alto, California 94303   USA
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>
>
>          Visit our WWW site!   http://www.tetherless.net/
>-----
>
>
>

```

## 242. MOTOROLA GPS

From: Jerry Wyatt <jwyatt@amex-trs.com>  
 Date: Thu, 12 Oct 95 14:56:17 -0700  
 To: aprssig@tapr.org  
 Message-ID: <9510122156.AA26590@lineng.ipc.amex-trs.com>  
 Rendered body type: text/plain

Hello Mark..and others,

There is a APRS program in the main dir that is called MOTOROLA.BAS that does this. Bob wrote it for CAP for that purpose. If it's not in the latest version, Bob or myself can send you a copy.

Later  
 Jerry Wyatt

The opinions expressed in this message are those of the author only,  
 and do not necessarily reflect the opinions of American Express.

## 243. Re: [APRSSIG:3829] Re: Motorola PVT-6 Program ?

From: mark@tetherless.com (Mark Oppenheim)  
 Date: Thu, 12 Oct 1995 15:24:04 -0700  
 To: aprssig@tapr.org, aprssig@tapr.org  
 Message-ID: <199510122224.PAA02603@gorgor.pa.tetherless.com>  
 Rendered body type: text/plain

At 04:58 PM 10/12/95 -0500, Bob Martin wrote:

```

>Here's the line copied from my hypercard stack for dealing with the PVT-6:
>    sendSPort "@@Ci" & numtochar(1) & numtochar(43) & crlf
>
>The command is "@@Ci" followed by a binary 1 for NMEA mode, the message
>checksum, and a cf/lf pair.
>
>The corresponding command to go from NMEA to Moto proprietary mode is:
>$PMOTG,FOR,0
>
>Remember that you also have to switch baud rates, so it's a *good idea* to
>wait for the transmit data buffer to go completely empty, and then switch
>baud rates on your port.
>
>73-
>
>
>--
>Bob Martin N6MZV      * rtm@newton.apple.com
>                      * N6MZV @ N0ARY.#NOCAL.CA.USA.NOAM
>

```

Bob-

Thanks for the info! I did try the \$PMOTG,FOR,1 string, but it did not seem  
 to work, however (the disclaimers follow):

1. I only have a few pages of the manual
2. I don't know the baud rate/parameters of the Motorola format (which is probably my problem)

I DID find the GPS90 program from motorola on the Net, but little documentation, as to what all the function keys do.. At least I know that it's "alive" (still waiting for a almanac, though) and in the Motorola format, as I suspected.

As I want to use this with APRS, I was wondering if the NMEA (which is usually at 4800 baud by default - or specification) could be set to 1200 baud - since I have an OLD PacComm unit (pre-micro/handi/packet) that will only communicate on the serial port at 1200 baud. I then have to burn the TAPR 1.1.9 code onto a PLCC chip :(

Mark  
KD6KQ

---

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Mark Oppenheim                  | Internet: MARK@TETHERLESS.COM        |
| Tetherless Access Limited       | Voice: 415-843-6880 x18              |
| 2468 Embarcadero Way            | Fax: 415-843-6890                    |
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---

## 244. RE: [APRSSIG:3811] Garmin FAQ posted

From: "Sadowski,P MAJ JCSAR/JT&E" <sadowskp@usafrqs.nellis.af.mil>  
Date: Thu, 12 Oct 95 15:32:00 cdt  
To: aprssig <aprssig@tapr.org>  
Message-ID: <307D7A9A@mailgtwy.nellis.af.mil>  
Rendered body type: text/plain

I need some help.... my network connectivity is limited to E-Mail only...  
can someone hint at an alternate mechanism that would enable me to get this  
FAQ..

Thanks in advance  
sadowskp@usafrqs.nellis.af.mil

-----  
From: aprssig  
To: aprssig  
Subject: [APRSSIG:3811] Garmin FAQ posted  
Date: Wednesday, October 11, 1995 8:37AM

A revised Frequently Asked Questions about Garmin GPS 45 and GPS 40 has been  
posted on Newsgroups: sci.geo.satellite-nav. It is dated Oct 10, 1995.  
The file is about 90K, 40 pages printed. KE7UT compiled the FAQ.

## 245. (no subject)

From: ASZ@aol.com  
Date: Thu, 12 Oct 1995 21:07:56 -0400  
Message-ID: <199510130107.VAA25421@emout05.mail.aol.com>  
Rendered body type: text/plain

Garmin 45 guru.

I've been using the 45 stand-alone for a month just to read lat & lon in  
northwestern Pennsylvania, not connected to a computer or TNC. For the past  
four or five days or so I have not been able to acquire enough satellites to  
get a lat-lon reading. Most times it acquires only one satellite. It appears  
to have stopped working. (The battery level is at least half to  
three-quarters.)

I'll use this evening, Thursday, 10/12, 8:30 p.m., as an example. When I  
turned it on in an open area, the initial screen showed seven satellites.  
Within a minute or two, satellite number 14 acquired and showed a signal



strength reaching about the fourth line on the scale of five lines.

Then over the next five minutes all the other satellites disappeared, and that's the way the screen stayed until I turned it off about five minutes later. Just number 14 was there, good and strong. Where'd all the others go?

Is anybody else having this problem? What am I doing wrong? How can I get this beast to resume functioning?

The last time I got strange satellite problems just happened to coincide with the military firing missiles into Bosnia, or wherever they were firing the missiles in anger. So then I just assumed the government monkeyed with the satellites causing the Garmin to act silly. Did anybody else notice that?

If anybody can help, I would appreciate some guidance.

I have another puzzle . . . and I've got big money riding on this one. How do you pronounce Garmin? With a G sound as in Garment or with a J sound as in Jar? I say Garmin's G is as in Garment. Dave, N3EOY, says J as in Jar, therefore Jarmin. If I'm right he has to buy the coffee. Who buys?

TNX & 73,

Tony, WB3KGT

---

## 246. Re: [APRSSIG:3834] Garmin 45 not working

From: kb7qqq@nwlinc.com (Sam Roe)  
Date: Fri, 13 Oct 1995 02:15:55 GMT  
To: aprssig@tapr.org  
Cc: kb7qqq@nwlinc.com  
Message-ID: <199510130208.TAA11222@washington.nwlinc.com>  
Rendered body type: text/plain

On Thu, 12 Oct 1995 20:18:21 -0500, you wrote:

> Garmin 45 guru.  
>  
>I've been using the 45 stand-alone for a month just to read lat & lon in  
>northwestern Pennsylvania, not connected to a computer or TNC. For the past  
>four or five days or so I have not been able to acquire enough satellites to  
>get a lat-lon reading. Most times it acquires only one satellite. It appears  
>to have stopped working. (The battery level is at least half to  
>three-quarters.)  
>

Hi Gary,

We had the same problem only with 11 Garmin 45. I forget what version the software was but we (Pierce County Search & Rescue) had them for about a year and they just kept getting worse and worse.

I called Garmin and they gave me a return authorization number for one of them. As soon as they got it they sent me a new one and had me send the other 10. All were replaced with brand new units. Unfortunately, they were stolen a few nights ago out of one of our members van. Also got his Electric wheelchair and all his ham gear.

Anyway, I think there is a problem with some of the early firmware but cannot get Garmin to own up to anything. You should give them a call and ask them for a return authorization number. More than likely you will get a brand new Garmin - 45 that works better than the original ever did...

Good Luck

Sam Roe  
kb7qqq@nwlinc.com  
Tactical Area Communications  
A Member of Pierce County Search & Rescue

---

## 247. Garmin 45 lock times

From: mark@tetherless.com (Mark Oppenheim)  
Date: Thu, 12 Oct 1995 19:17:05 -0700  
To: aprssig@tapr.org  
Message-ID: <199510130217.TAA06876@gorgor.pa.tetherless.com>  
Rendered body type: text/plain

At 08:22 PM 10/12/95 -0500, ASZ@aol.com wrote:

> Garmin 45 guru.  
>

>I've been using the 45 stand-alone for a month just to read lat & lon in  
>northwestern Pennsylvania, not connected to a computer or TNC. For the past  
>four or five days or so I have not been able to acquire enough satellites to  
>get a lat-lon reading. Most times it acquires only one satellite. It appears  
>to have stopped working. (The battery level is at least half to  
>three-quarters.)  
>  
>I'll use this evening, Thursday, 10/12, 8:30 p.m., as an example. When I  
>turned it on in an open area, the initial screen showed seven satellites.  
>Within a minute or two, satellite number 14 acquired and showed a signal  
>strength reaching about the fourth line on the scale of five lines.  
>  
>Then over the next five minutes all the other satellites disappeared, and  
>that's the way the screen stayed until I turned it off about five minutes  
>later. Just number 14 was there, good and strong. Where'd all the others go?  
>  
>Is anybody else having this problem? What am I doing wrong? How can I get  
>this beast to resume functioning?  
>  
>The last time I got strange satellite problems just happened to coincide with  
>the military firing missiles into Bosnia, or whenever they were firing the  
>missiles in anger. So then I just assumed the government monkeyed with the  
>satellites causing the Garmin to act silly. Did anybody else notice that?  
>  
>If anybody can help, I would appreciate some guidance.  
>  
>I have another puzzle . . . and I've got big money riding on this one. How do  
>you pronounce Garmin? With a G sound as in Garment or with a J sound as in  
>Jar? I say Garmin's G is as in Garment. Dave, N3EOY, says J as in Jar,  
>therefore Jarmin. If I'm right he has to buy the coffee. Who buys?  
>  
>TNX & 73,  
>  
>Tony, WB3KGT  
>

Tony-

I have 2 Garmin 45's here at work.

The longer that they are turned off (or acquired a good fix) the longer it  
will take to acquire a new set of satellites. This is exacerbated if it is  
turned on inside a building, and it does not "see" the satellites it  
expects. It then seems to go into another mode altogether. Getting signal  
strenght does not indicate that you are reviewing good data - or a "almanac"  
from that satellite, so it's not the whole story.

Put it in the "Search Sky" mode, and let it find the satellites. Sometimes  
this can take up to 25 minutes - especially if moving. There are times when  
you just don't have enough good satellites (high enough up in elevation) to  
get a good fix. You can enter this mode on power-up by holding down the  
power button and the PAGE key.

I have seen some strange (can't lock) problems during some unusual events  
(like the UN celebration in SFO a few months back) but there's always  
SOMETHING strange going on in the world... you haven't exposed the Garmin to  
high RF fields when on, have you?

On the pronunciation, it's "GARMIN" as in "GAR-BAGE" (call the tech support  
and find out). Although, don't settle for just coffee with Dave. Have him  
do the complete Ethiopian Coffee Ceremony. He knows how this is done - I  
was there when it was performed for him in Sudan, so don't let him weasel  
out of it!

Mark

```

-----
Mark Oppenheim                               Internet: MARK@TETHERLESS.COM
Tetherless Access Limited                     Voice: 415-843-6880 x18
2468 Embarcadero Way                         Fax: 415-843-6890
Palo Alto, California 94303 USA              Tech Support: SUPPORT@TETHERLESS.COM

```

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(408) 523-8000

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-----

## 248. Re: [APRSSIG:3826] Re: VGATE

From: moyers@ibm.net  
Date: Thu, 12 Oct 95 22:06:06 +0000  
To: aprssig@tapr.org  
Message-ID: <9510130521.AA0150@localhost>  
Rendered body type: text/plain

> The KPC-4 sounds like a good idea, as I can't really put a PC on the  
> hilltop running APRS. The other option of putting TheNet EPROMs is better  
> in my case, as I could then connect to the existing 145.01 NETROM node on  
> the hilltop. The next question: Can you digi thru a NETROM node stack,  
> meaning digi from the 145.01 out to the 145.79 node? Of course, you can  
> connect thru the stack with the NETROM protocol or by connecting manually  
> to each node in turn, but I've never tried to digi...  
>  
> 73, jan  
> kc6uth  
>

Jan the simple answer is YES YOU CAN. Although I haven't tried it with x1j nodes running wide as an extra alias in both it should be possible. What you will need to do though is add the Wide alias in to the node table for each opposing node running the alias.

Example; W8XYZ-1 alias:test DXCluster alias; WIDE  
W9XYZ-2 alias;temp DXCluster alias; WIDE

Both nodes are in the same stack together.

node table for W8XYZ-1;

N W9XYZ-2 + WIDE 120 7 1 W9XYZ-2

node entry for W9XYZ-2;

N W8XYZ-1 + WIDE 120 7 1 W8XYZ-1

Then make sure that digipeat is enabled on both ports. The nodes should cross port the digi signal. You may need to add and callsign other than the nodes call for each extra alias, in which case just substitute the calls. I haven't tested this exact process using the extra aliases but I do use this method quite often to cross connect to nodes in a stack that are told not to talk to each other.

Let me know how it goes, I have been thinking about doing the same thing here.

73

John Moyers \* ARS: N4QEA \* Internet: moyers@ibm.net  
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

## 249. Re: [APRSSIG:3816] Re: Bit mapped maps

From: ParkDoggie@eworld.com  
Date: Thu, 12 Oct 1995 20:20:05 -0700  
To: aprssig@tapr.org  
Message-ID: <951012202001\_16472717@hp1.online.apple.com>  
Rendered body type: text/plain

----- Begin Original Text

Barbara,

Do you know how to program a Mac? Do you know how to program Windows? Well, I make my living programming the Mac but I know how to program Windows as well. And for the most part, they are very similar. When programing graphics on Windows, IF you do it the right way, then it is ALMOST identical to the way that it is done on the Mac.

----- End Original Text -----

That's a bit excessive Mark, I think we should ask Barbara what she has in mind, what do you have to fear ?

Regards  
Don Agro, VE3VRW

Dog Park Software Ltd.

P.S. I have a retail Mac program out there with over a million users and I'd like to hear a little more about her ideas on Tensors.

---

## 250. Re: [APRSSIG:3824]

From: "L. J. Shepherd" <ljs@west.net>  
Date: Thu, 12 Oct 1995 21:59:22 -0700  
To: aprssig@tapr.org  
Message-ID: <199510130503.WAA02081@acme.sb.west.net>  
Rendered body type: text/plain

Mitch: I don't think TAPR makes the source available, but you can get the EPROM from Dorothy at TAPR for \$15 which includes a nice manual with updated command list. TAPR is at 817-383-0000 or FAX at 817-566-2544. 73, Jim  
K6OYY TAPR 502

At 12:02 PM 10/12/95 -0500, you wrote:

>n Interface

>

>Where can one get the eprom image or source for the TAPR TNC2 EPROM V1.1.9

>with the GPS code for the TNC2 ??? I would love to try this in a old MFJ

>1270B I have sitting on the shelf ...

>

> TNX, 73, Mitch, WA1YKN...

>

>

>

>

---

## 251. (no subject)

From: JeffS5@aol.com  
Date: Fri, 13 Oct 1995 02:21:25 -0400  
Message-ID: <199510130621.CAA02460@emout05.mail.aol.com>  
Rendered body type: text/plain

"G-A-R-M-I-N" @ 1-800-800-1020 and see how they answer the phone.

It's pronounced "GAR" not "JAR".

73> jeff WA6EQU

---

## 252. Re: [APRSSIG:3834] Wierd Garmin 45 Behavior

From: Turnstone@aol.com  
Date: Fri, 13 Oct 1995 02:35:31 -0400  
To: aprssig@tapr.org  
Message-ID: <951013023530\_122886048@mail06.mail.aol.com>  
Rendered body type: text/plain

Hi Tony,

The sci.geo.satellite-nav newsgroup has had several posting from people describing the same behavior (of losing satellites over time). Several of them have sent the units back for service, with some success.

I think it's Garmin, as in Garfield.

73 de Tom - KC7AGK

---

## 253. garmin/jarmin and ethiopian coffee

From: HENRYVB@aol.com  
Date: Fri, 13 Oct 1995 05:17:30 -0400  
To: aprssig@tapr.org  
Message-ID: <951013051726\_43481188@emout05.mail.aol.com>  
Rendered body type: text/plain

In a message dated 95-10-12 21:35:17 EDT, Tony, WB3KGT wrote:

>I have another puzzle . . . and I've got big money riding on this one. How do

>you pronounce Garmin? With a G sound as in Garment or with a J sound as in

>Jar? I say Garmin's G is as in Garment. Dave, N3EOY, says J as in Jar,

>therefore Jarmin. If I'm right he has to buy the coffee. Who buys?

If it was Jarmin...then wouldn't then call them JPS's? :) :)

and as far as Mark Oppenheim's comment about the "ethiopian coffee thing", how about the 50-cent explanation for the rest of us?

just having fun in chicago...

henry  
n9wmm  
henryvb@aol.com

**254. Re: [APRSSIG:3827] Motorola PVT-6 Program ?**

From: Fred Quarles <fredq@bihs.net>  
Date: Fri, 13 Oct 1995 04:35:26 -0500  
To: aprssig@tapr.org  
Message-ID: <199510130935.EAA12247@brazos.bihs.net>  
Rendered body type: text/plain

```
At 04:05 PM 10/12/95 -0500, you wrote:
>Does anyone know how to get the PVT6 GPS out of the Motorola Binary format
>and output NMEA strings?
>
>As I recall, there is a web page with a number of programs on it (primarily
>for the Garmin) but it also contained a Motorola PVT-6 initialization program.
>
>Thanks!
```

>Mark

```
>
> Mark Oppenheim                                Internet:  MARK@TETHERLESS.COM
> Tetherless Access Limited                     Voice:    415-843-6880 x18
> 2468 Embarcadero Way                         Fax:     415-843-6890
> Palo Alto, California 94303  USA
>
>                                           Tech Support: SUPPORT@TETHERLESS.COM
>
>We're Moving!  (After November 1, 1995)
```

> 930 E. Arques  
> Sunnyvale, California, 94086-4552  
> (408) 523-8000  
> (408) 523-8001 Fax

> Visit our WWW site! <http://www.tetherless.net/>

The basic code that will do that is included with the APRS package. It's call `Motorola.bas` and works great. I use it all the time and with a simple terminal program like `LYNC` you can monitor the NMEA strings timings if you set up multiple string types.

Fred, KC5HHN

## 255. Reporting Hurricane or Tropical Depression

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>  
Date: Fri, 13 Oct 1995 07:39:56 +0000  
To: aprssig@tapr.org  
Message-ID: <199510131138.HAA01282@hemisphere.neocomm.net>  
Rendered body type: text/plain

When Roxanne was downgraded to a tropical depression I could not decide which object to use. Should I still select hurricane from the objects menu? I expected the object to change to blue for a Tropical Depression. I used /TD/ in the comment field instead of /HC/ and also reported 000>175 in the radius field to show no hurricane force winds but 175 radius of Tropical winds. Should I have selected Tstorm for the object ?

cdavidso@neocomm.net  
http://www.neocomm.net/~cdavidso/  
WB4PAN@WB400J.VA.USA.NOAM

## 256. Re Reporting Hurricanes vs. Tropical Depressions

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>  
Date: Fri, 13 Oct 1995 07:58:30 +0000  
To: aprssig@tapr.org  
Message-ID: <199510131156.HAA01556@hemisphere.neocomm.net>  
Rendered body type: text/plain

Ok I found the problem I created. The reason APRS did not show the difference in (TD) and (HC) was, I added and extra ( / ) in the comment field.

I originally put:       /TD/050^060/993>000&140

I should have put:       TD/050^060/993>000&140   The coment field  
provides the first (/) slanted line.

After doing this correctly the icon for the storm turned blue to  
show a tropical depression.

cdavidso@neocomm.net

<http://www.neocomm.net/~cdavidso/>

WB4PAN@WB4Q0J.VA.USA.NOAM

---

## 257. Re: [APRSSIG:3832] Re: Motorola PVT-6 Program ?

From: jra@ag9v.ampr.org

Date: Fri, 13 Oct 1995 08:01:16 -0400 (EDT)

To: aprssig@tapr.org

Message-ID: <199510131201.IAA11550@ag9v.ampr.org>

Rendered body type: text/plain

I just acquired a PVT-6 and have gone through some of this frustration.  
The Motorola software is pretty much useless without at least the "Quick  
Start" command reference, as all the setup stuff is done with commands  
and not function keys -- all the fkeys do is show different status displays.  
To switch from Motorola binary format to NMEA, you enter "ioformat nmea"  
from the command prompt within the program. You can also go to a loran  
emulation mode with the command "ioformat loran." There's also a mode command  
that switches between "idle" and "position fix" modes -- make sure you're  
in fix mode!!!

The baud rates are hard wired -- 4800 for NMEA and 1200 for Loran.

And here's the real trick -- once you get into NMEA mode, you need to send  
NMEA command strings to turn the output on and set the rate for each  
sentence! The format is:

\$PMOTG,<sentence name>,<rep rate in seconds><CR><LF>

So \$PMOTG,GGA,0001<CR><LF> sets the GGA sentence to output once per second.

The hangup I had was getting my comm program to output <CR><LF> with the  
return key -- that's not Procomm's default. It's also helpful to toggle  
half-duplex mode so you can see what you're typing, as the PVT-6 doesn't  
echo characters.

73,  
John

-----

You (Mark Oppenheim) write:

>

>Bob-

>

>Thanks for the info! I did try the \$PMOTG,FOR,1 string, but it did not seem  
>to work, however (the disclaimers follow):

>

>1. I only have a few pages of the manual

>2. I don't know the baud rate/parameters of the Motorola format (which is  
>probably my problem)

>

>I DID find the GPS90 program from motorola on the Net, but little  
>documentation, as to what all the function keys do.. At least I know that  
>it's "alive" (still waiting for a almanac, though) and in the Motorola  
>format, as I suspected.

>

>As I want to use this with APRS, I was wondering if the NMEA (which is  
>usually at 4800 baud by default - or specification) could be set to 1200  
>baud - since I have an OLD PacComm unit (pre-micro/handi/packet) that will  
>only communicate on the serial port at 1200 baud. I then have to burn the  
>TAPR 1.1.9 code onto a PLCC chip :(

--

John Ackermann AG9V

Internet: jra@ag9v.ampr.org

Packet: AG9V@N8ACV.#DAY.OH.USA

---

## 258. Re: [APRSSIG:3840]

From: jkeck@smartlink.net (james keck)

Date: Fri, 13 Oct 1995 05:35:03 -0700

To: aprssig@tapr.org  
Message-ID: <199510131233.FAA12415@warp10.smartlink.net>  
Rendered body type: text/plain

Jeff....

>"G-A-R-M-I-N" @ 1-800-800-1020 and see how they answer the phone.

Tried three times, always busy this morning....must be others  
checking it out as well...hi hi..

73...Jim

---

## 259. Re: [APRSSIG:3182] APRS73A.zip problem on ftp.tapr.org

From: JKANDEL@umiami.ir.miami.edu  
Date: Fri, 13 Oct 1995 09:20:21 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <01HWDXDA6SVM8ZEGJH@umiami.ir.miami.edu>  
Rendered body type: text/plain

[Empty message body]

---

## 260. Re: [APRSSIG:3828] Re: APRS in So. Ca

From: dwetzel@acs.uswest.com  
Date: Fri, 13 Oct 1995 09:12:55 -0500  
To: aprssig@tapr.org  
Message-ID: <07e6ba90@acmspgw1.mnet.uswest.com>  
Rendered body type: text/plain

The ONLY reason for suggesting 145.79 as a standard frequency is so that  
mobiles can put XTAL controlled Stand Alone Trackers in their Trunks and  
go anywhere without having to change freqs.

Considering that objective, there may be a half-way solution for areas  
that have conflicts on 145.79. Have your HIGH SITE WIDE DIGIS listen on  
145.79 but OUTPUT on any other freq that you can get coordinated.

Mobiles only have a range of a few miles to other stations, so they  
probably will not bother existing users even 5% of what a WIDE DIGI  
OUTPUTING on 145.79 would.

DOWNSIDE: The downside probably out weights any advantages tho:

- 1) Doesnt help visitors find teh OUTPUT freq to monitor
- 2) Requires everyone to operate DUPLEX
- 3) YOU LOOSE CARRIER DETECT COLLISION AVOIDANCE
- 4) You cannot go DIGI to DIGI without requiring dual receivers and dual  
transmitters,
- 5) etc, etc

So the only reason I suggested this, is that even in areas which have  
chosen alternate frequencies, it wont HURT them, nor create any TURF wars  
if you also add a 145.79 RECEIVER at your WIDE site, so that wandering  
mobiles will show up in your net..... Remember, they are on the ground,  
and hardly ANYONE will hear them direct...

Just a thought....

DE WB4APR in Annapolis MD. (Not anywhere  
near Greatlakes)  
-----

Bob, how about a special graphic character assignment for a VHF - VHF gate in  
the next release so an APRS wanderer could key to look for the crossband freq  
pair or local net in a beacon message or bulletin?

Doug  
KC7CO

---

## 261. Re: [APRSSIG:3844] Reporting Hurricane or Tropical Depression

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 13 Oct 1995 11:50:32 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951013114603.12347A-100000@greatlakes>  
Rendered body type: text/plain

On Fri, 13 Oct 1995, Charles W. Davidson wrote:

> When Roxanne was downgraded to a tropical depression I could not

> decide which object to use. Should I still select hurricane from the  
> objects menu? I expected the object to change to blue for a Tropical  
> Depression. I used /TD/ in the comment field instead of /HC/ and  
> also reported 000>175 in the radius field to show no hurricane force  
> winds but 175 radius of Tropical winds.

APR REPLY: You could use >000&175 for hurricane winds out 000 and TS  
winds out 175. Or you could drop the >000 and just used &175 to get the  
tropical storm radius. But since it is a DEPRESSION, then neither of  
these fields is exactly correct. But if they specify a radius, you can  
still use these fields to draw a RED or a YELLOW radius circle.

---

## 262. Re: [APRSSIG:3827] Motorola PVT-6 Program ?

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Fri, 13 Oct 1995 12:00:44 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510131700.MAA04025@solar.cs.tamu.edu>  
Rendered body type: text/plain

Simply use the qbasic program MOTOROLA.BAS.

--  
Gerry Creager N5JXS                               \* SAREX Co-Investigator  
gerry@cs.tamu.edu                               \* A little radio that lets kids talk  
                                                 \* to astronauts, and smile  
\*\*\*\*\*

---

## 263. Re: [APRSSIG:3846] Re: Motorola PVT-6 Program ?

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Fri, 13 Oct 1995 12:14:18 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510131714.MAA04315@solar.cs.tamu.edu>  
Rendered body type: text/plain

>From where I sit, while the PVT-6 and GPS-x0 programs are pretty grim, and  
conform to the Motorola standard of non-conformity with MSDOS and Windoze,  
they beat the heck out of the Trimble software and hardware for eval I've been  
subjected to that DOES comply with all the niceties!

I'll stick with Motorola hardware where I can... at work I can't!

73, gerry

--  
Gerry Creager N5JXS                               \* SAREX Co-Investigator  
gerry@cs.tamu.edu                               \* A little radio that lets kids talk  
                                                 \* to astronauts, and smile  
\*\*\*\*\*

---

## 264. New Peet Bros. ULTIMETER-2000 Wx Sta

From: W2H0B@aol.com  
Date: Fri, 13 Oct 1995 14:51:38 -0400  
To: aprssig@tapr.org  
Message-ID: <951013145137\_43797583@mail04.mail.aol.com>  
Rendered body type: text/plain

Just saw the ad in November QST, page 203 bottom right...

The Peet Bros have delivered on their promise and are offering a new  
weather station with more bells and whistles... things we've been waiting on  
here in South Jersey... costs \$379 plus extra for humidity, dew pt, and of  
course, rainfall.

Hey Bob... you may need some extra characters in the comments field, eh?

I called the 800-USA-PEET (800-872-7338) and asked for a brochure and found  
that there will also be available in November a Ultimeater-500 which won't  
have  
as many bells and whistles as the 2000 but more than the current U-II.

73 de Boyd AR

---

## 265. Re: [APRSSIG:3853] New Peet Bros. ULTIMETER-2000 Wx Sta

From: sproul@ap.org (Mark Sproul)  
Date: Fri, 13 Oct 1995 15:16:05 -0400  
To: aprssig@tapr.org  
Message-ID: <v02110105aca46b4f3f5f@[165.1.27.20]>  
Rendered body type: text/plain



>Just saw the ad in November QST, page 203 bottom right...  
>  
>The Peet Bros have delivered on their promise and are offering a new  
>weather station with more bells and whistles... things we've been waiting on  
>here in South Jersey... costs \$379 plus extra for humidity, dew pt, and of  
>course, rainfall.  
>  
>Hey Bob... you may need some extra characters in the comments field, eh?

We already are working on the support for the new version in MacAPRS

Mark

---

|                                 |                       |
|---------------------------------|-----------------------|
| Mark Sproul                     | Amateur Radio: KB2ICI |
| Software Engineer @ Assoc Press | AppleLink: Sproul.M   |
| sproul@eos.ap.org               | Work: 609-860-7120    |
| North Brunswick, NJ             | Fax: 609-860-7129     |
| http://pilot.njin.net/~msproul  |                       |

---

## 266. Re: [APRSSIG:3854] Re: New Peet Bros. ULTIMETER-2000 Wx Sta

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Fri, 13 Oct 95 16:16:44 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.813615404.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

The following things are already supported in the APRS text strings..

Hxxx for humidity  
Bxxxx for pressure (we had a large discussion about this awhile back)  
Gxxx For wind Gust.

This stuff was added in preparation for the new Peet Bros units.

I already have the full documentation to the unit and it looks quite good..

We got to see one of these at the New Jersey ARRL Convention/Hamfest last weekend.

The also showed a REMOTE MOUNT (RF) linked Rain gauge for remote sites, i.e. out in the yard someplace away from trees etc..

Good Work Peet Bros!

Keith Sproul

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Keith Sproul                          | Ham Radio: WU2Z                    |
| Student Housing Network Coordinator   | ksproul@noc.rutgers.edu            |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/   | 908 821-4828 Home                  |

## 267. Re: [APRSSIG:3836] Garmin 45 lock times

From: "David G. Henderson" <daveh@moose.erie.net>  
Date: Fri, 13 Oct 1995 18:18:54 -0300  
To: aprssig@tapr.org  
Message-ID: <m0t3sR4-000fySC@moose.erie.net>  
Rendered body type: text/plain

Well,

>On the pronunciation, it's "GARMIN" as in "GAR-BAGE" (call the tech support  
>and find out).

I give up. I owe him coffee.

>Although, don't settle for just coffee with Dave. Have him  
>do the complete Ethiopian Coffee Ceremony. He knows how this is done - I  
>was there when it was performed for him in Sudan, so don't let him weasel  
>out of it!

>

>Mark, KD6KQ

Forget it, Tony's a snake and not worth the extra effort.

---

## 268. Garmin 45

From: wricharz@ix.netcom.com (WILLIAM M. RICHARZ )  
Date: Fri, 13 Oct 1995 16:56:13 -0700  
To: aprssig@tapr.org  
Message-ID: <199510132356.QAA14758@ix3.ix.netcom.com>  
Rendered body type: text/plain

Anyone know where I can get a Garmin 45 at the best price?

Thanks & 73 de Bill

---

## 269. MFJ DATA RADIO

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 13 Oct 1995 20:22:56 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951013201829.18942D-100000@greatlakes>  
Rendered body type: text/plain

I'm still feeling good about my purchase of the MFJ 5 watt data radio. Hooked it up tonight, and it works right-outta-tha-box. But of course, I always want to push the envelope a little bit. Here is what I sent to MFJ:

I was going to use it as dual speed both 1200 and 9600 baud with the dual port dual speed KANTORINCS 9612 TNC. The problem is that MFJ provided NO schematic so I can see where to hook up BOTH 1200 and 9600 simultaneously. Their JUMPER description does not help, because I want to select BOTH simultaneously.

So far it looks like a great little radio. Here are some suggestions for the next revision:

- 1) ALL TNC's require the proper adjustment of RECEIVE audio to be done AT THE RECEIVER. NO TNC's provide RECEIVER VOLUME ADJUST. Therefore your RADIO should provide a receiver level adjust.
- 2) With almost all TNC's being low power these days, please add a JUMPER for sending out 12 volts on the unused TNC connector, pin 5. But this is lower priority and should not conflict with #3 below.
- 3) ALLOW FOR SIMULTANEOUS OPERATION OF THE RADIO IN BOTH 1200 and 9600 baud modes. This is easy to do. Leave the existing BANDWIDTH and MODULATOR JUMPERS in place and wired AS-IS to the lower 5 pins of the standard 5 pin DIN PIN-OUT. BUT USE AN 8 PIN DIN CONNECTOR ON YOUR BACK PANEL. (A 5 pin DIN plug will still work for everyone doing single speed operation and the function of your jumpers still works as published). THEN wire two of the additional pins to provide simultaneous access to the VARACTOR MODULATOR and unfiltered receive audio for the 9600 baud bandwidth.

This permits the DATARADIO to work with the dualport/dual speed KPC-9612 at the same time. THIS IS AN IDEAL WAY to provide the transition to 9600 baud.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

---

## 270. Re: [APRSSIG:3857] Garmin 45

From: snabkey@wingsbbs.com (Samuel Nabkey)  
Date: Fri, 13 Oct 1995 20:42:53 -0500  
To: aprssig@tapr.org  
Message-ID: <199510140142.UAA13222@sys1.tapr.org>  
Rendered body type: text/plain

>Anyone know where I can get a Garmin 45 at the best price?

I THINK the best price is E&B Marine.

>  
>Thanks & 73 de Bill  
>  
>  
Sam Nabkey - WJ8T

---

## 271. Re: [APRSSIG:3844] Reporting Hurricane or Tropical Depression

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Sat, 14 Oct 1995 07:37:20 +0100 (EDT)  
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.951014073503.29675C-100000@pinegov>  
Rendered body type: text/plain

Charles, Peter (W7LUS) and I provide all tropical disturbance reports on the HF side of APRS and we use the same convention as the NWS and change the symbol according to strength...so, yes, when Roxanne was downgraded to a T.S., you use the T.S. symbol. Too bad you don't have an HF Gate nearby, then all you would have to do is uplink the object to the local VHF net.

73 and happy APRSing

de Kevin KD4UYR  
Seminole, FL

---

## 272. Re: [APRSSIG:3810] Re: MFJ TNC with TAPR GPS EPROM to Garm

From: mwalker@interlog.com (Mike Walker)  
Date: Sat, 14 Oct 95 09:33:42 EDT  
To: aprssig@tapr.org  
Message-ID: <199510141333.JAA12528@gold.interlog.com>  
Rendered body type: text/plain

>3. I have had some trouble with the PK-12 forgetting the commands input into  
>it from  
>the computer. The procedure is to attach the PK-12 to the computer via a serial  
>port and issue the commands to prepare the PK-12 for stand alone use. Then,  
>switch the pk-12 off, disconnect it from the power, and transfer it to the  
>vehicle, applying vehicle power. My PK-12 is jumpered correctly for the Li  
>battery to maintain the memory, however on many occasions, between the shack  
>and the car, the PK-12 has forgotten what has been input. Removing and  
>re-applying (rocking?) the jumper (JP 1) seems to have helped this problem.  
>

Re: The above problem

On the PK-12 the last command you issue to the TNC is to go in to GPS mode.

If I remember correctly, the last message to come up is a warning that the baud rate will be changed to 4800 baud and to press any key etc...

If you don't hit enter, it won't go into GPS mode. I learned this the hard way, as I had programmed it...took it out to the car... and it won't work. The end result is it comes up in command mode.

Hope this helps...mike

Mike Walker  
127 High St. W.  
Mississauga, ON  
L5H 1K4

mwalker@interlog.com  
rf: va3mw@va3bbs

---

## 273. F10 Doz key...

From: "David G. Henderson" <daveh@moose.erie.net>  
Date: Sat, 14 Oct 1995 10:54:08 -0300  
To: aprssig@tapr.org  
Message-ID: <m0t47yP-000fzdC@moose.erie.net>  
Rendered body type: text/plain

Bob,

I have been testing the F10 Doz key here under high resolution video Windows for Workgroups 3.11.

Over several days there were no problems--hit the F10 key switch away to do something else and switch back, then hit space bar to repaint screen. This does solve the problem of the video trying to access the screen in the background.

But I think that you must have missed a subroutine. Something (very infrequently) is still trying to get to the screen even after the Doz key is pressed. It MIGHT be when a station tries to connect and APRS tries to switch to the blue screen.

I suspect this because when the program bombed this morning and I rebooted it, the TNC buffer was holding connect and disconnect statements from a particular station to my station.

Could you check this. I think that the addition of the Doz key is doing the job for those of us who are too lazy to change video modes while running APRS under Windows. This is a good work around until WinAPRS is born.

73, keep up the good work

Dave, N3EOY

---

## 274. WINDOWS STUFF

From: snabkey@wingsbbs.com (Samuel Nabkey - WJ8T)  
Date: Sat, 14 Oct 1995 10:18:30 -0500  
To: aprssig@tapr.org  
Message-ID: <199510141518.KAA00150@sys1.tapr.org>  
Rendered body type: text/plain

Hi Bob,

I have been running APRS under Windows 95 since the Release. I have had no trouble with it at all except the BEEPS. I need to run Beeps off to tolerate being in the same room with the 'Puter if I don't

I wonder if there is any way to tell APRS that its in the background and not beep?

Wonder if anyone is having trouble with this?

Sam Nabkey, WJ8T  
Internet: snabkey@wingsbbs.com  
amprnet : wj8t@w8dc.ampr.org  
AX25 : wj8t@w8dc.#swmi.mi.usa.noam

---

## 275. Problem in 73d?

From: Jeff Ward <jward@marlin.gulf.net>  
Date: Sat, 14 Oct 1995 10:24:37 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSI.3.90.951014101944.11711A-100000@marlin.gulf.net>  
Rendered body type: text/plain

The other night I was using version 73d, carrying on a local conversation with another ham here on VHF. When I had multiple lines of text (using the S command) that were waiting to be acked, those lines were being transmitted as many as 19 or 20 times each at each transmission! The more un-acked lines there were, the more the lines were repeated. Has anybody else had similar problems with 73d, or is this something stupid that I did? I've never had this problem with earlier versions.

Jeff Ward, N4TRY  
ASM Northern Florida ARES

---

## 276. Re: [APRSSIG:3863] WINDOWS STUFF

From: BOB DERDERIAN <n2iph@beta.delphi.com>  
Date: Sat, 14 Oct 1995 12:41:45 -0400  
To: aprssig@tapr.org  
Message-ID: <199510141641.MAA09361@ernie.beta.delphi.com>  
Rendered body type: text/plain

At 10:26 10/14/95 -0500, you wrote:

>Hi Bob,

>

>I have been running APRS under Windows 95 since the Release. I have had no  
>trouble with it at all except the BEEPS. I need to run Beeps off to tolerate  
>being in the same room with the 'Puter if I don't

>

>I wonder if there is any way to tell APRS that its in the background and not  
>beep?

>

>Wonder if anyone is having trouble with this?

>

>

>Sam Nabkey, WJ8T

>Internet: snabkey@wingsbbs.com

>amprnet : wj8t@w8dc.ampr.org

>AX25 : wj8t@w8dc.#swmi.mi.usa.noam

>

I'd like to know more of the particulars abt running APRS under WIN95 and abt the WinAPRS program under development. TNX, Bob, n2iph@w2hob.#snj.nj.usa

## 277. Re: [APRSSIG:3865] Re: WINDOWS STUFF

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Sat, 14 Oct 95 13:52:28 EDT  
To: aprssig@tapr.org  
Cc: n2iph@beta.delphi.com  
Message-ID: <CMM-RU.1.4.813693148.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

>  
> I'd like to know more of the particulars abt running APRS under WIN95 and  
> abt the WinAPRS program under development. TNX, Bob, n2iph@w2hob.#snj.nj.usa  
>

We (actually Mark, KB2ICI) is making good progress on the MacAPRS for Windoze project. We still expect to have a beta version out around Christmast..

Keith

|                                                                                                                                                                                       |                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Keith Sproul<br>Student Housing Network Coordinator<br>Rutgers University Computing Services<br><a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | Ham Radio: WU2Z<br>ksproul@noc.rutgers.edu<br>908 445-3695 Work 908 445-2968 Fax<br>908 821-4828 Home |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

---

## 278. [APRSSIG:3857] GARMIN 45

From: phil.finkle@sid.net  
Date: Sat, 14 Oct 95 14:58:16 -0400  
To: aprssig@tapr.org  
Message-ID: <9510141458.0L15M01@sid.net>  
Rendered body type: text/plain

Bill  
Just bouight one from Mudhole in NJ for \$289 +\$5 shipping. If you need address/phone no. let me know.

73, Phil K6EID

Phil.Finkle@sid.net

---

## 279. How I do WINDOZ

From: snabkey@wingsbbs.com (Samuel Nabkey - WJ8T)  
Date: Sat, 14 Oct 1995 14:31:17 -0500  
To: aprssig@tapr.org  
Message-ID: <199510141931.0AA07258@sys1.tapr.org>  
Rendered body type: text/plain

Hello,  
I have had VERY good luck running APRS under WIN95. I moved the APRS Executable program to the STARTUP Section of the toolbar so if power fails it can get running again without human intervention.

After moving it to the Startup section, the only thing I changed was to give it a little less Idle Sensitivity so Windows will keep some of the Resources to APRS a little longer. Other than that, nothing was changed.

I am running on a Pentium 60. / With 16Meg of RAM. HOWEVER, I have run the same setup in a 486dx/66 and 8Meg.

Only thing I have a problem with is the BEEPS. They are ten times as long. Everything else is PERFECT!

Sam Nabkey, WJ8T  
Internet: snabkey@wingsbbs.com  
amprnet : wj8t@w8dc.ampr.org  
AX25 : wj8t@w8dc.#swmi.mi.usa.noam

---

## 280. Re: [APRSSIG:3867] GARMIN 45

From: wricharz@ix.netcom.com (WILLIAM M. RICHAZ )  
Date: Sat, 14 Oct 1995 12:40:08 -0700  
To: aprssig@tapr.org  
Message-ID: <199510141940.MAA07422@ix5.ix.netcom.com>  
Rendered body type: text/plain

You wrote:  
>  
>  
>Bill  
>Just bought one from Mudhole in NJ for \$289 +\$5 shipping. If you need  
>address/phone no. let me know.  
>  
>73, Phil K6EID  
>  
>Phil.Finkle@sid.net  
>  
Hey Phil, thanks for the info, if you have the address & ph. no. would  
appreciate it & BTW, are you satisfied with yours, and also did you get  
any accessories with it?  
  
thanks & 73 de Bill WA4VAF

---

## 281. Re: [APRSSIG:3862] F10 Doz key...

From: "David G. Henderson" <daveh@moose.erie.net>  
Date: Sat, 14 Oct 1995 18:58:11 -0300  
To: aprssig@tapr.org  
Message-ID: <m0t4FPz-000fySC@moose.erie.net>  
Rendered body type: text/plain

Bob,

Also the "N" key accesses the screen while in Doz mode.

Dave, N3EOY

---

## 282. Re: [APRSSIG:3863] WINDOWS STUFF

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 15 Oct 1995 00:31:35 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951015003019.21940E-100000@greatlakes>  
Rendered body type: text/plain

On Sat, 14 Oct 1995, Samuel Nabkey - WJ8T wrote:

> I have been running APRS under Windows 95 since the Release. I have had no  
> trouble with it at all except the BEEPS. I need to run Beeps off to tolerate  
> being in the same room with the 'Puter if I don't  
>  
> I wonder if there is any way to tell APRS that its in the background and not  
> beep?

ANSWER: Version 73D SPECIFICALLY disables BEEPS when in the F10 DOZ  
mode. This should make APRS work well in the background....

---

## 283. Message dupes in 73d?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 15 Oct 1995 00:35:53 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951015003234.21940F-100000@greatlakes>  
Rendered body type: text/plain

I noticed an inordinate (as many as 30 ) number of acks from a station  
the other night, I blamed him for having too many WIDES and a band  
opening, and the fact that I was using the single hop of RELAY. But now  
I am suspicious considering the following message. SO if any one can  
nail this one down for me, lemme know!

On Sat, 14 Oct 1995, Jeff Ward wrote:

> The other night I was using version 73d, carrying on a local conversation  
> with another ham here on VHF. When I had multiple lines of text (using  
> the S command) that were waiting to be acked, those lines were being  
> transmitted as many as 19 or 20 times each at each transmission! The more  
> un-acked lines there were, the more the lines were repeated. Has anybody  
> else had similar problems with 73d, or is this something stupid that I  
> did? I've never had this problem with earlier versions.  
>  
> Jeff Ward, N4TRY  
> ASM Northern Florida ARES  
>  
>  
>

## 284. Re: [APRSSIG:3870] Re: F10 Doz key...

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 15 Oct 1995 00:45:14 -0400 (EDT)  
To: "David G. Henderson" <daveh@moose.erie.net>  
Cc: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951015004335.21940I-100000@greatlakes>  
Rendered body type: text/plain

Actually, ALMOST any HUMAN command will bring APRS out of the F10-DOZ mode. Or are you telling me something else?

On Sat, 14 Oct 1995, David G. Henderson wrote:

> Also the "N" key accesses the screen while in Doz mode.  
> Dave, N3EOY

---

## 285. Charleston WV map

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 15 Oct 1995 00:47:50 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951015004545.21940J-100000@greatlakes>  
Rendered body type: text/plain

Someone called to day about a balloon launch and wanted a map of southwest west virginia. I made it and will post it in the tapr/SIG/aprssi/upload directory... WWWEST.zip

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

---

## 286. Garmin 45

From: kb7qqq@nwlink.com (Sam Roe)  
Date: Sun, 15 Oct 1995 08:54:17 GMT  
To: aprssig@tapr.org  
Cc: kb7qqq@nwlink.com  
Message-ID: <199510150847.BAA03381@washington.nwlink.com>  
Rendered body type: text/plain

>  
>On Thu, 12 Oct 1995 20:18:21 -0500, you wrote:  
>  
>> Garmin 45 guru.  
>>  
>>I've been using the 45 stand-alone for a month just to read lat & lon in  
>>northwestern Pennsylvania, not connected to a computer or TNC. For the past  
>>four or five days or so I have not been able to acquire enough satellites to  
>>get a lat-lon reading. Most times it acquires only one satellite. It appears  
>>to have stopped working. (The battery level is at least half to  
>>three-quarters.)  
>>  
>  
Hi Gary,

We had the same problem only with 11 Garmin 45. I forget what version the software was but we (Pierce County Search & Rescue) had them for about a year and they just kept getting worse and worse.

I called Garmin and they gave me a return authorization number for one of them. As soon as they got it they sent me a new one and had me send the other 10. All were replaced with brand new units. Unfortunately, they were stolen a few nights ago out of one of our members van. Also got his Electric wheelchair and all his ham gear.

Anyway, I think there is a problem with some of the early firmware but cannot get Garmin to own up to anything. You should give them a call and ask them for a return authorization number. More than likely you will get a brand new Garmin - 45 that works better than the original ever did...

Good Luck

Sam Roe  
kb7qqq@nwlink.com  
Tactical Area Communications  
A Member of Pierce County Search & Rescue

>

Sam Roe  
kb7qqq@nwlink.com

## 287. Which GPS including aircraft use?

From: schiers@ibm.net (hasan schiers)  
Date: Sun, 15 Oct 95 13:00:17 EDT  
To: aprssig@tapr.org  
Message-ID: <199510151257.MAA135767@smtp-gw01.ny.us.ibm.net>  
Rendered body type: text/plain

A friend of mine wants to buy a GPS that can be used with both APRS and in his airplane. (Not as an aviation certified device, but at least properly functioning.) Manufacturer, price and where to buy, please.

robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam

---

## 288. RE: Which GPS including aircraft use?

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Sun, 15 Oct 95 9:50:07 EDT  
To: aprssig@tapr.org, schiers@ibm.net  
Message-ID: <CMM-RU.1.4.813765007.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

For use in an AIRPLANE, do NOT get the Garmin.. My recommendation would be the Eagle Acunave Sport.. It is a little more expensive, but is a very nice unit, and does work at higher speeds..

Get it at any boat store.. or marine mail-order place..

Keith

|                                                                                       |                                    |
|---------------------------------------------------------------------------------------|------------------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z                    |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu            |
| Rutgers University Computing Services                                                 | 908 445-3695 Work 908 445-2968 Fax |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home                  |

---

## 289. [APRSSIG:3869] RE: GARMIN 45

From: phil.finkle@sid.net  
Date: Sun, 15 Oct 95 10:59:35 -0400  
To: aprssig@tapr.org  
Message-ID: <9510151059.0FFYQ00@sid.net>  
Rendered body type: text/plain

Bill

Address is 126 NRoute 9, Forker River, NJ 08731. Phone 609-971-1170. Fax 609-693-7998.

I've only had it for a week or so and it seems real neat. Only GPS I've ever used but came highly recommended. Haven't used it in the tules yet but assume it'll do fine.

73, Phil K6EID

---

## 290. Re: [APRSSIG:3876] Which GPS including aircraft use?

From: parker@rincon.com (Mike Parker)  
Date: Sun, 15 Oct 1995 08:35:00 -0700  
To: aprssig@tapr.org  
Message-ID: <199510151535.IAA12517@usr2.primenet.com>  
Rendered body type: text/plain

At 08:10 AM 10/15/95 -0500, hasan schiers wrote:

>A friend of mine wants to buy a GPS that can be used with both APRS  
>and in his airplane. (Not as an aviation certified device, but at least  
>properly functioning.) Manufacturer, price and where to buy, please.

Any GPS with a NEMA output "should" work. I have been using a Garmin 95 with a Paccomm Handi Packet and am pleased with the combination. Note that you must not use Garmin's route function if you want to run in GPS stand-alone beacon mode because it transmits \s and these are interpreted by the Handipacket as a command to escape from GPS mode and get back to being a normal TNC.

The Garmin 90 is a cheaper aviation model that has received good reviews. Many of my soaring friends like the Eagle (which is



cheaper still, but doesn't have the neat airspace stuff in it).  
I have used neither with APRS.

Also note that some of the cheap GPS models (including Garmin's) are made brain-dead by the manufacturer above 99 knots. These are not very useful for aircraft.

An issue with any TNC in an aircraft is the TNC interferring with the aircraft radio (or a 2 meter handi-talkie for that matter).  
I have had less problems with the Handi Packet than with a PK-12, but that may be installation dependent.

Where to buy? These are available from various catalogues.  
I bought mine from a local aviation electronics shop after negotiating a discount. Not as cheap, but they loaned me a unit to try out before I bought it and took the first one back no questions asked when it died after a couple of weeks.

I have had good luck with Garmin support. After a friend borrowed my model 95 and twisted the BNC connector off (very hard to do), Garmin fixed it free even though it was not in warranty.

Mike, KT7D

---

## 291. MISC Stuff

From: edwardwr@interaccess.com (Edward W Rogers)  
Date: Sun, 15 Oct 1995 17:21:15 -0500  
To: aprssig@tapr.org  
Message-ID: <199510152215.RAA16604@flowbee.interaccess.com>  
Rendered body type: text/plain

Hello all,

Ive put off several messages to the SIG these past few weeks so I thought Id post them together and let you sort them out.<grin>

### APRS DOS LapTop

I've picked up a new (dealer old stock) ACER model V486S laptop for APRS Mobile use, 486sx25, 4 meg ram, and TWO SERIAL PORTS!! Boy is it slick not having to worry about HSP stuff it also has a bus (PS2) mouse port and a PC card slot, I'm running Windoze95 on it and APRS is working fine in background, if you mobile guys come across one it maybe worth your while to try it out. Now if I can just figure a way to power it from 12V,,,,,,

### STAND A LONE TRACKER

Dave KA9NHL and I put a Motorola card into a TINY2 case running the antenna line out the back and doing the wire stuff internally. Set up the paramaters turned it on and its working fine. Its a tight fit, and I dont know about heat build up yet but so far so good. If you want to program the GPS I use a NULL-MODEM adapter, to talk to the TNC a serial cable works fine. I let you know what happens and if anyone is interested Ill post the wire hookups.

### HSP PC board

FAR circuits has sent me a few finished HSP boards and they look great. Its made to be inserted between the pin rows on a DB9 connector. Its well marked and component installs should be a snap. Im mailing one to Bob so he can tell us what he thinks. If you all cant wait you can buy them for \$3.00 each + \$1.50 postage or 10 or more at \$1.25 prepaid ( gee whats the better deal?). Contact FAR CIRCUITS, Fred Reimers, KF9GX, 18N640 Field Court, Dundee, Illinois,60118. (708) 426-2431.

### Northern Illinois APRS Network (NIAN)

Dan N9XHP has put together a GREAT newsletter and Ill be posting a copy on the FTP site soon , take a look at it. If anyone else is doing something similar lets start an exchange.

73  
Ed  
N9LCI

" You know your a man (or crazy) if you sail Lake Michigan in Oct."

---

## 292. Re: [APRSSIG:3880] MISC Stuff

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Mon, 16 Oct 1995 07:21:23 -0500  
To: aprssig@tapr.org  
Message-ID: <9510161221.AA21838@omnifest.uwm.edu>  
Rendered body type: text/plain

Ed,  
I've been trying to drop you a note to thank you for the Grayslake program. All of the mail has been returned.  
I'm looking forward to the APRS.  
Dave

---

### 293. APRS Symbols on mobile trackers

From: Tom Kinahan <kinahan@mail1.bytex.network.com>  
Date: Mon, 16 Oct 1995 09:50:25 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951016093325.18409B-100000@ws007-fddi>  
Rendered body type: text/plain

I've been reading the README files more closely lately, and came across an Item I thought useful and interesting. In Symbols.txt, the file indicates that mobile trackers (stations with GPS, TNC, Radio no computer) can change how they are displayed on APRS screens by one of two ways.

First, it says is by the stations SSID and second by putting a character in brackets at the beginning of the BText line. Using the BText approach, the APRS system would need to receive the message to change the display type.

Here's what I've got, My mobile station, callsign N1CPE-9 transmitting periodic Posits for APRS. I show up as a car (as planned). I add the beacon :

[j] APRS Beacon

Set much more infrequently than the posits. The result on my 7.3A version of APRS is the same car I had before. I thought the beacon text would set my symbol to a jeep looking thing (after receiving the first beacon).

Does the -9 have precedence? Would this work if I left out the -9? (then the corresponding conflict with the home station) Has anybody tried this recently?

And, Yes, I know that if I changed my SSID to -12 it would show as a jeep looking vehicle.

73,

- Tom Kinahan

|                               |                                  |
|-------------------------------|----------------------------------|
| Tom Kinahan                   | Phone: 508-366-0040 x360         |
| Bytex / Network Systems Corp. | Fax: 508-366-0244                |
| 4 Technology Drive            | Email: kinahan@bytex.network.com |
| Westborough, Ma. 01581        | Amateur Radio: N1CPE             |

---

### 294. Re: NYALBANY Map offsets

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 16 Oct 1995 13:07:22 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951016125725.4041C-100000@greatlakes>  
Rendered body type: text/plain

On Mon, 16 Oct 1995, George V. Chapek wrote:

> ... on the NYALBANY map that there appears to be an offset of the tracks  
> relative to the map locations of some of the roads. For example, I travel  
> NY Route 50, and GPS tracks plot about 1/4 mile to the east of the roadway

APR REPLY: Most APRS maps of large areas were made from the 2,000,000:1 USGS CD ROM data base. If you calculate it, 1 mile equals about 0.03 inches on the original PAPER map from which this data was derived. Now think about the ability of the summer-hire high school student to digitized that map! I have seen errors of several miles (still only 1/8th inch at the original map scale (only a hiccup away)

So, PLEASE, everyone, use MAPFIX to move your roads over to where they actually show under GPS. Then send me the updated map.

---

### 295. Re: [APRSSIG:3882] APRS Symbols on mobile trackers

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 16 Oct 1995 13:17:00 -0400 (EDT)

To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951016131334.4041F-100000@greatlakes>  
Rendered body type: text/plain

On Mon, 16 Oct 1995, Tom Kinahan wrote:

> indicates that mobile trackers (stations with GPS, TNC, Radio no  
> computer) can change how they are displayed on APRS screens in 2 ways.  
>  
> Here's what I've got, My mobile station, callsign N1CPE-9 transmitting  
> periodic Posits for APRS. I show up as a car (as planned). I add the  
> beacon : [j] APRS Beacon

APR REPLY: Good question. I thought the [j] would take precedence, but maybe thts only for the basic callsign (-0). Or maybe you didnt wait long enough until a [j] was received in the L-LIST? Pse confirm both of these possiblities...

---

## 296. Re: [APRSSIG:3884] Re: APRS Symbols on mobile trackers

From: Tom Kinahan <kinahan@mail1.bytex.network.com>  
Date: Mon, 16 Oct 1995 13:49:46 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951016134254.18409E-100000@ws007-fddi>  
Rendered body type: text/plain

On Mon, 16 Oct 1995, Bob Bruninga wrote:

>  
> On Mon, 16 Oct 1995, Tom Kinahan wrote:  
>  
> > indicates that mobile trackers (stations with GPS, TNC, Radio no  
> > computer) can change how they are displayed on APRS screens in 2 ways.  
> >  
> > Here's what I've got, My mobile station, callsign N1CPE-9 transmitting  
> > periodic Posits for APRS. I show up as a car (as planned). I add the  
> > beacon : [j] APRS Beacon  
>  
> APR REPLY: Good question. I thought the [j] would take precedence, but  
> maybe thts only for the basic callsign (-0). Or maybe you didnt wait  
> long enough until a [j] was received in the L-LIST? Pse confirm both of  
> these possiblities...  
>

I did wait long enough, the [j] is in the L-List. I received a personal reply from Dave in Hawaii indicating that I should use curly brackets not straight ones :

{j} APRS Beacon

Dave indicated that this has been sucessful for him while using a non -0 SSID.

I've got to try the curly brackets and -0 SSID and will let all know.

73,

Tom Kinahan

|                               |                                  |
|-------------------------------|----------------------------------|
| Tom Kinahan                   | Phone: 508-366-0040 x360         |
| Bytex / Network Systems Corp. | Fax: 508-366-0244                |
| 4 Technology Drive            | Email: kinahan@bytex.network.com |
| Westborough, Ma. 01581        | Amateur Radio: N1CPE             |

---

## 297. Re: [APRSSIG:3857] Garmin 45

From: JAgrelo@aol.com  
Date: Mon, 16 Oct 1995 14:18:19 -0400  
To: aprssig@tapr.org  
Message-ID: <951016141804\_125161260@mail06.mail.aol.com>  
Rendered body type: text/plain

E&B @ (800)533-5007  
GPS-45 plus accessories (power data cable & mounting bracket).

73 de Joe N200C

-----  
Joe Agrelo/N200C  
Agrelo Engineering  
Ph (518)381-1057

Fx (518)381-1058  
E-mail- jagrelo@aol.com

Designer and Manufacturers of intelligent microprocessor based Doppler  
and talking products

Experts in Microchip and Motorola processors

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## 298. 440 APRS monitoring links

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 16 Oct 1995 19:38:54 -0400 (EDT)  
To: Bob Hartman <n8mwz@alpha.wcoil.com>  
Cc: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951016192548.10814B-100000@greatlakes>  
Rendered body type: text/plain

Bob Hartman makes a good suggestion. He lives in a remote area of OHIO and although they have a WIDE at 250 feet, they rarely see many DX APRS stations. But if he checks the HEARD log of the WIDE digi, he sees a LOT more calls! This means, of course, that all of the WIDE,WIDE hops are used up by the time his digi hears them, so it doesn't repeat them. Asking the rest of the state to go WIDE,WIDE,WIDE for their sake is absolutely out of the question....

What he suggests is that he will add a 440 TRANSMITTER on the 445.925 APRS frequency which will REPEAT the AUDIO from the 2 meter WIDE DIGI receiver. This way, he and his local friends that want to see other activity in the state, can tune in on 445.925 and listen as if their receivers were at 250 feet!

There is NO need for the reverse link on 440, since the 2 meter stations can simply add an additional hop on their OUTBOUND packets to hit anyone that they see on the 440 link. Not only is this a good solution to his curiosity to see what is "over the hill", but it also begins to use the 445.925 APRS frequency in his area in preparation for an eventual transition there...

Something like this might help in SoCal...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

---

## 299. Re: [APRSSIG:3887] 440 APRS monitoring links

From: n2czf@gate.net  
Date: Mon, 16 Oct 1995 21:37:58 -0400  
To: aprssig@tapr.org  
Cc: aprssig@tapr.org, bruninga@nadn.navy.mil  
Message-ID: <199510170137.VAA55690@tequesta.gate.net>  
Rendered body type: text/plain

The 440 RX link sounds interesting! That will be something to think about in our area!

Does anyone on the sig have any experience with the REGENERATE option board that is available for TNC's clones? I know that PacComm makes such a thing and I have heard that is some ROSE EPROM that with the use of 1 TNC, the proper EPROM and 2 radios you can set up a sort of simplex data repeater, in on one radio with a re-transmission on a 2nd radio. Everything is kept the same, TX delays etc. etc. guess garbage in garbage out as long as the packet is decoded.

Facts are light on this topic in my area, can anyone else shed some light may work for a UHF or 6M backbone!

73's Rich N2CZF  
n2czf@gate.net

---

## 300. Re: [APRSSIG:3885] Re: APRS Symbols on mobile trackers

From: cap@cruzio.com (Cap Pennell)  
Date: Mon, 16 Oct 95 22:39:02 PDT  
To: aprssig@tapr.org  
Message-ID: <199510170609.BAA03827@sys1.tapr.org>  
Rendered body type: text/plain

Tom Kinahan writes:

- > reply from Dave in Hawaii indicating that I should use curly brackets
- > not straight ones :
- > {j} APRS Beacon
- > I've got to try the curly brackets and -0 SSID and will let all know.

Dave's right. If you use the curly braces with the symbol character in between as the first three spaces of your BText, the map will display the new position symbol as soon as the beacon is received.  
p.s to Bob WB4APR...Maybe revise SYMBOLS.TXT to show the {}?

See you on APRS! 73.

--  
+-----+  
Cap Pennell email: cap@cruzio.com Lat/Long:3658.92N/12200.88W  
Santa Cruz, CA packet radio: ke6afe@kg6ee.#cenca.ca.usa.noam  
+-----+

---

### 301. Re: [APRSSIG:3887] 440 APRS monitoring links

From: Bob Wilkins n6fri <rwilkins@ccnet.com>  
Date: Tue, 17 Oct 1995 01:21:36 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951017001013.23978C-100000@ccnet3>  
Rendered body type: text/plain

On Mon, 16 Oct 1995, Bob Bruninga wrote:

> Bob Hartman makes a good suggestion. He lives in a remote area of OHIO and  
> although they have a WIDE at 250 feet, they rarely see many DX APRS  
> stations. But if he checks the HEARD log of the WIDE digi, he sees a LOT  
> more calls! This means, of course, that all of the WIDE,WIDE hops are  
> used up by the time his digi hears them, so it doesnt repeat them.  
> Asking the rest of the state to go WIDE,WIDE,WIDE for their sake is  
> absolutely out of the question....

Teach folks to set their paths using callsigns...

> What he suggests is that he will add a 440 TRANSMITTER on the 445.925 APRS  
> frequency which will REPEAT the AUDIO from the 2 meter WIDE DIGI  
> receiver. This way, he and his local friends that want to see other  
> activity in the state, can tune in on 445.925 and listen as if their  
> receivers were at 250 feet!

Please Please work with your local repeater coordinating committee. The frequency 445.925 is not a packet frequency except in a small town in Maryland! There are many voice repeaters here in California using this frequency. Other areas of the country have used this frequency to link additional voting receivers to their two meter systems. Please do not start a war with the established users.

Part 97 is specific when it comes to who solves the problem when an uncoordinated use interferes with a coordinated use. Unlike the two meter band the 420 - 450 band has sub-bands for auxiliary as well as repeater use. Two meter packet is uncoordinated, except by local band plan. Part 97 requires coordination in the auxiliary and repeater sub-bands. 445.925 is in the repeater and auxiliary sub-band and should be coordinated by a local coordinator. 145.79 is not in a repeater or auxiliary sub-band so the use is mandated by local band plans. No one has exclusive use.

> There is NO need for the reverse link on 440, since the 2 meter stations  
> can simply add an additional hop on their OUTBOUND packets to hit anyone  
> that they see on the 440 link. Not only is this a good solution to his  
> curiosity to see what is "over the hill", but it also begins to use the  
> 445.925 APRS frequency in his area in preparation for an eventual  
> transition there...

Again this would not work in the major metropolitan areas where this frequency is used for coordinated and sanctioned voice repeaters and links.

> Something like this might help in SoCal...

Would not work at all ... due to the coordinated voice activity on the frequency. The 439 area of the band is suitable for coordinated packet use here as well as most areas of the country. Please check with your local coordinators for a proper frequency. You would not want to interfere with Races or other public service operations. You will also want to make sure the uhf Amateur Television repeaters can continue to operate with out interference to their inputs or outputs.

> DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

There are many folks out here that would like all mentions of their uhf repeater frequency removed from the APRS help files.

Ok lets get back to the maps ... Lets see, my friend in southern cal is impressed with my 600 mile path ... it worked as he could see a star at the end. only 9 digis in the path. Lots of new activity in the San Joaquin valley after a demo at the Bakersfield ham fest.

|                      |       |      |                                                                                    |
|----------------------|-------|------|------------------------------------------------------------------------------------|
| Bob                  | n6fri | web  | <a href="http://www.ccnet.com/~rwilkins/">http://www.ccnet.com/~rwilkins/</a>      |
| Bob Wilkins          |       | work | <a href="mailto:bwilkins@cave.org">bwilkins@cave.org</a>                           |
| Berkeley, California |       | home | <a href="mailto:rwilkins@ccnet.com">rwilkins@ccnet.com</a>                         |
| 94712-2354           |       | play | <a href="mailto:n6fri@n6eeg.#nocal.ca.usa.noam">n6fri@n6eeg.#nocal.ca.usa.noam</a> |

From: crpl.cedar-rapids.lib.ia.us (David Barrett)  
Date: Tue, 17 Oct 1995 12:24:15 -0500  
To: aprssig@tapr.org  
Message-ID: <199510171725.MAA20860@sys1.tapr.org>  
Rendered body type: text/plain

```
>IF YOU THINK YOU NEED A NATION-WIDE frequency why not write to the major
>Lets continue to have Fun!
>
Gee's no need to SHOUT and then tell me to have fun!
```

barrett

[illegible]

From: n8mwz@alpha.wcoil.com (Bob Hartman)  
Date: Tue, 17 Oct 1995 13:34:31 -0400  
To: aprssig@tapr.org  
Message-ID: <199510171734.NAA05092@alpha.wcoil.com>  
Rendered body type: text/plain

```
>Please Please work with your local repeater coordinating committee. The
>frequency 445.925 is not a packet frequency except in a small town in
>Maryland! There are many voice repeaters here in California using this
>frequency. Other areas of the country have used this frequency to link
>additional voting receivers to their two meter systems. Please do not
>start a war with the established users.
>
>Part 97 is specific when it comes to who solves the problem when an
>uncoordinated use interferes with a coordinated use. Unlike the two meter
>band the 420 - 450 band has sub-bands for auxiliary as well as repeater
>use. Two meter packet is uncoordinated, except by local band plan. Part 97
>requires coordination in the auxiliary and repeater sub-bands. 445.925 is
>in the repeater and auxiliary sub-band and should be coordinated by a
```



From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 17 Oct 1995 15:51:55 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951017154650.23810E-100000@greatlakes>  
Rendered body type: text/plain

Bob Wilkins raised concerns about just grabbing 445.925.

Let me repeat for the Nth time. I do NOT advocate just grabbing any frequency without first checking with your coordinateing body. All frequencies are used by someone somewhere...

But if you are going to start playing with APRS on 440, take a look and see if you can get 445.925. If it is available, why not grab it.

My suggestion that a 440 remote link from a 2 meter digi might be a good idea in So Cal, should NOT have inferred any given freq. That is a local coordinating issue...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

---

### 306. Same problem

From: intercomm.net!wnolle (William Nolle)  
Date: Tue, 17 Oct 1995 19:02:16  
To: tapr.org!aprssig  
Message-ID: <199510180002.TAA00175@sys1.tapr.org>  
Rendered body type: text/plain

Well Bob, WB7VDN and myself had that same problem with both of us running 73d. A little while trough send some lines back and forth just trough KE4EER-5 we started to get 30 beacons at it time, it sounded like we where running for Meteor Scatter now this happened several times during an hour session. I noticed several messages posted to that effect.

Also found another bug that if i have my map centered on Madion county and i move my cursor on WB7VDN's house on the map and then hit M-P-R APRS crashes to Dos. I will post the exact error-5 message as soon as i get my internet software setup correctly (Have a new address).

Bill KE4EER  
wnolle@intercomm.net

---

### 307. bug in 73d

From: intercomm.net!wnolle (William Nolle)  
Date: Tue, 17 Oct 1995 20:07:57  
To: tapr.org!aprssig  
Message-ID: <199510180108.UAA02117@sys1.tapr.org>  
Rendered body type: text/plain

Bob lost your address so figured i would post the info here, i got the following error.

```
***T
LM,PM: 2    5
a,I,J,K,fdx: 0 9 1 71 0 0
X,Y,X1,Y1 -16.25016  4.16832  -16.25016  4.168.32
A$R
c$
ES$ Back in PLOTCUR
000PS! ERR 5
```

Now this occurs when i have the county map centered on thge following coordinates:

3443.60N  
08631.30W At a 16 mile range

Then if i move the cursor over WB7VDN's QTH at the following coordinates it will crash if i then do a M-P-R. His coordinates:

3436.60N  
08632.22

Now this doesn't happen if you hook his station, but only by placing the cursor over it.

Hope this helps

Bill KE4EER



### 308. Re: [APRSSIG:3894] 440 APRS frequency

From: Bob Wilkins n6fri <rwilkins@ccnet.com>  
Date: Tue, 17 Oct 1995 19:43:05 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951017184521.18267A-100000@ccnet3>  
Rendered body type: text/plain

On Tue, 17 Oct 1995, Bob Bruninga wrote:

> But if you are going to start playing with APRS on 440, take a look and  
> see if you can get 445.925. If it is available, why not grab it.

Looks like the days of grabbing are coming to a close. Now is the time for the special interest groups to formulate their real needs and promote proper band planning.

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#### NEWSLINE RADIO - CBBS EDITION #948 - POSTED 10/13/95

Check with your local amateur radio club to see if NEWSLINE can be heard weekly on the air in your area.

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The following is a QST

Repeater coordinators meet in St. Louis and change the very basis of repeater coordination. Also more on the aftermath of Hurricane Opal and another Big MACC attack. These stories and more on Newsline report number 948 for release on Friday, October 13, 1995 coming your way right now!

#### REPEATER COORDINATORS MEET

The nations repeater frequency coordinators have met with the ARRL and the FCC in St. Charles, Missouri. It was a politically charged meeting that has changed the face of VHF operation forever. This is because there is now a tentative agreement by which the American Radio Relay League has tentatively agreed, subject to board approval, to represent the nations coordinators to the FCC. This, in exchange for the commission recognizing the work of the coordinators and possibly making their decisions binding on the ham radio community.

The meeting was held at the Best Western Noah's Ark motor hotel not far from the St. Louis Airport. About fifty of the nations sixty five recognized repeater coordinators were present. Also in the room were representatives of packet radio, amateur television and other modes that use the VHF and UHF spectrum, but from the outset it was made clear that this meeting was to discuss the problems of FM voice repeater coordination only. Even though he was there unofficially, the tone of the meeting was set by the keynote speaker Ralph Haller, N4RH, Deputy Chief of the FCC's Wireless Telecommunications Bureau:

"I'm particularly delighted that all of you have taken time from your schedules to be here and you have shown so much interest in this matter, that you would come to St. Louis on a Saturday.

I would like to ask that we try to stay focused. In talking to you, I know a number of you in this room have lots of other concerns. Enforcement, changes in the volunteer examine program, but that is not what today's meeting is about. Today's meeting is to talk about frequency coordination. An opportunity to get to really get to know each other. And it's an opportunity to bring frequency coordination to yet a higher plateau. So during the day let's stay focused on the real issue of why we are here. Let's not get side tracked on other issues that can easily take up the day. Let's stay focused on frequency coordination. This is a truly historic day in the history of Amateur Radio." Haller, N4HY

Historic yes, but not without its problems. For a while, the entire proceeding seemed to be slipping away as the political differences between various coordinators and between some coordinators and the ARRL took center stage. As a result, much of the early discussion derailed into matters of finite detail rather than the general picture that Haller had requested. So, not unlike other legislative bodies in a state of conflict, the group recessed. It was when the meeting reconvened that headway began. Owen Wormser, K6LEW, the president of the Mid Atlantic

Repeater Council was the person who brought it back on track:

"For the sake of a beginning can we agree that those that are listed in the current ARRL Repeater Directory as coordinators for their specific areas etc. are in fact the baseline from which we can begin. Perhaps, but not the final solution, perhaps not the end of it, but can we agree that that is at least the beginning. Because where the next point goes is, if that is agreed then we have something else to say. And that is that in the longer term our objective is to produce the white paper which will be delivered by a committee from this organization. Not an ad hoc committee. This is our organization. So our committee will deliver to Mr. Haller the white paper. That white paper out of our consensus down stairs will address the specificity of a single point of contact, an organization, not a single individual paralleling very closely the commercial representation to the FCC in the form of a single point of contact. And that in order to get some recognized coordinators to single point of contact, there is a lot of specificity that must be put into this white paper." Wormser, K6LEW

Owen Wormser set the stage for the group to arrive at a consensus, but it would be many more hours before this would happen. A turning point came with the comments of Jim Fortney, K6IYK, who chairs Southern California's 220 MHz Spectrum Management Association. If Owen Wormser gave the assemblage its direction, it was Jim Fortney that added purpose:

"It has become very clear to me and I hope it would be clear to the majority of the rest of you, that the environment that the FCC finds itself in no longer allows us to use the methods and techniques that we have used in the past to deal with them. And that in fact that we better look at some new approaches. And one of those approaches that is being used elsewhere and has been suggested from a variety of directions that would be advantageous to us is if we, and I am talking about amateur radio, not repeater coordination necessarily, but amateur radio in total, we amateur radio had someone who represented us to the FCC." Fortney

Discussions and debates lasted another four hours. In the end it was decided to name the American Radio Relay League as the single point of contact, or spoc, between the nations frequency coordinators and the FCC. A committee chaired by Owen Wormser, K6LEW was empowered to draft a white paper setting forth the goals of the spoc. This paper will be circulated to all the nations recognized frequency coordinators listed in the ARRL repeater directory for comment before a final version is submitted. All of this seemed to please the FCC's Haller:

"Clearly this afternoon, I think tremendous progress has been made. And I look forward to continuing to work with this group and your representatives who will ultimately be working with us directly in Washington. I think this is a giant move forward for Amateur Radio and I think it says a lot that all of you come here with such diverse views and in the course of a few short hours reach this kind of consensus." Haller

There is still a lot to be done before recognition of the work of coordinators becomes reality. Two of the biggest hurdles are drafting a white paper acceptable to most coordinators and for the ARRL's Board of Directors to vote on whether or not it really wants the spoc job. The latter will happen in mid January.

But assuming both of these tasks are accomplished, it may eventually mean that the average ham, people like you and me who simply operate FM with a mobile rig or an HT can be assured that the day of the so-called pirate repeater will come to an end. That our ability to communicate through our favorite repeater with a minimum of interference from another uncoordinated and unwanted repeater on the same channel pair, will be assured. And from a users point of view, what more can an FM enthusiast want.

#### NEW MACC MEMBERS

Also making news in St. Charles is an announcement by the giant Mid America Coordination Council. The big MACC, as it has become known, has swallowed up two more regions. Not surprising was the decision by Eastern Washington state and the Idaho Panhandle to fall under the MACC umbrella. What caught everyone by surprise was an announcement by California's Northern Amateur Relay Council that it too was joining MACC. Don Smith, W6NKF, the President of NARC says its time that hams in California drop their isolationist policies:

"The way that coordination and everything else is going to go. If we have a united front, we have a better of than if we are a bunch of

splinters. And I think we need, in this point in time, a united front."  
Smith

Does this mean that Southern California is next? Probably not. This is because frequency coordination in Southern California is by several different organizations acting as caretakers for various repeater subbands. Also, there is the turmoil on two meters as to who really is the frequency coordinator with nine groups challenging the long term coordinator for that position. Southern California will have to solve a lot of regional problems before any umbrella group will bother to give it an ear.

Meantime, the Mid America Coordination Council is now a consortium of 22 amateur radio frequency coordination entities serving 18 states and portions of 3 others. Each entity is autonomous within the MACC organization with all MACC frequency coordination policies and guidelines being advisory only. In addition to providing mutual recognition of frequency coordinators, MACC provides in house technical assistance and dispute mediation to those regions and entities requesting such services.

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Hams may be used to grabbing two meter simplex channels, as the coordinators could not coordinate exclusive use except by mode as described in a local band plan.

The auxiliary and repeater sub-bands have always been coordinated to a amateur trustee for a specific use, location, erp power and area of coverage.

Coordination is far different than band planning as it gives specific rights to those who are coordinated as found in Part 97 of the rules.

I could not find any coordinated packet stations on 445.925 in the ARRL repeater directory. I found ten states with coordinated voice repeaters and found most of the north east coordinators had coordinated the frequency as an fm voice simplex frequency. This makes sense as there are few simplex voice frequencies in the 440 repeater sub-band

Looking closely in the directory you will see many coordinated packet activities across the nation in the auxiliary band near 439 MHz. This is the area of the band we should be looking for APRS backbone frequencies as we grow the network.

Most packet stations would rather be slightly removed from the 440 repeater band so their receiver is not desensed by the local 440 repeater. In the major metropolitan areas of the country packet and voice must share the same hilltop for good coverage.

It is to our collective advantage to have our activities coordinated, then next years grabbers will not be inclined to grab our frequencies.

Bob n6fri

|                      |      |                                |
|----------------------|------|--------------------------------|
| Bob Wilkins          | work | bwilkins@cave.org              |
| Berkeley, California | home | rwilkins@ccnet.com             |
| 94712-2354           | play | n6fri@n6eeg.#nocal.ca.usa.noam |

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## 309. Update: MacAPRS for Windows

From: sproul@ap.org (Mark Sproul)  
Date: Wed, 18 Oct 1995 09:46:30 -0400  
To: aprssig@tapr.org  
Message-ID: <v02110102acaaa1391b4@[165.1.27.20]>  
Rendered body type: text/plain

To all APRS users

On September 16th, I announced that I was going to port MacAPRS to Windows environment. Exactly one month later, October 16th, I have maps working on Windows. The original schedule is still on track (beta by Christmas, release at Dayton 96).

Since I know a lot of people are VERY interested in the progress, I will be trying to keep you up-to-date via postings to this mailing list. Do NOT ask for beta versions now. I am a long way of from having a version ready to release. But you can see that the hi-resolution maps ARE working. I have a very good screen shot of a Texas state map that you can take a look at.

Check out the MacAPRS web pages at

<http://www-ns.rutgers.edu/~ksproul/APRS/>

Mark Sproul  
KB2ICI

---

|                                                                             |                       |
|-----------------------------------------------------------------------------|-----------------------|
| Mark Sproul                                                                 | Amateur Radio: KB2ICI |
| Software Engineer @ Assoc Press                                             | AppleLink: Sproul.M   |
| <a href="mailto:sproul@eos.ap.org">sproul@eos.ap.org</a>                    | Work: 609-860-7120    |
| North Brunswick, NJ                                                         | Fax: 609-860-7129     |
| <a href="http://pilot.njin.net/~msproul">http://pilot.njin.net/~msproul</a> |                       |

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### 310. Re: [APRSSIG:3897] Re: 440 APRS frequency

From: Gerald J Creager <[gerry@cs.tamu.edu](mailto:gerry@cs.tamu.edu)>  
Date: Wed, 18 Oct 1995 17:08:20 -0500 (CDT)  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <199510182208.RAA27685@solar.cs.tamu.edu>  
Rendered body type: text/plain

Bob Wilkins n6fri sez:

>  
> On Tue, 17 Oct 1995, Bob Bruninga wrote:  
>  
> > But if you are going to start playing with APRS on 440, take a look and  
> > see if you can get 445.925. If it is available, why not grab it.  
>  
> Looks like the days of grabbing are coming to a close. Now is the time  
> for the special interest groups to formulate their real needs and promote  
> proper band planning.  
>  
> ++++++  
>  
> NEWSLINE RADIO - CBBS EDITION #948 - POSTED 10/13/95

...DELETED...  
> ++++++  
>  
> Hams may be used to grabbing two meter simplex channels, as the  
> coordinators could not coordinate exclusive use except by mode as  
> described in a local band plan.  
>  
> The auxiliary and repeater sub-bands have always been coordinated to a  
> amateur trustee for a specific use, location, erp power and area of  
> coverage.  
>  
> Coordination is far different than band planning as it gives specific  
> rights to those who are coordinated as found in Part 97 of the rules.

Coordination, however, is tied inexorably to band planning and spectrum management. While coordination does offer certain rights to the poordinated parties, coordination is not required to place a repeater on the air, by any stretch of the imagination. Coordination, however, arose to meet the requirements of REPEATERS, and not simplex, and started in a day when digital modes were not even a glimmer in their mothers' eyes.

A number of the repeater coordinating bodies have indicaed they would attempt to coordinate packet operations, but most, that I'm aware of, have let the Packet groups in their areas do that task. In my experience, packet operators, even more so than most hams, have no desire to be coordinated, directed on where to put their radios, or even catalogued. In this regard, APRS is somewhat different.

> I could not find any coordinated packet stations on 445.925 in the ARRL  
> repeater directory. I found ten states with coordinated voice repeaters  
> and found most of the north east coordinators had coordinated the frequency  
> as an fm voice simplex frequency. This makes sense as there are few  
> simplex voice frequencies in the 440 repeater sub-band

Remember that in the League's OWN words, the ARRL bandplans are not "national" but are recommendations. Local determination is supreme.

> Looking closely in the directory you will see many coordinated packet  
> activities across the nation in the auxiliary band near 439 MHz. This is  
> the area of the band we should be looking for APRS backbone frequencies as  
> we grow the network.

I suspect you're correct and support this. However, in Texas, the packet frequencies are lower in the band!

- > Most packet stations would rather be slightly removed from the 440
- > repeater band so their receiver is not desensed by the local 440 repeater.
- > In the major metropolitan areas of the country packet and voice must share
- > the same hilltop for good coverage.

Very true. Anyone who's had to put up a repeater or TNC in a noisy area is well aware of the problems associated with the bejiggawatt transmitters with no circulator and no notch cavities!

- > It is to our collective advantage to have our activities coordinated,
- > then next years grabbers will not be inclined to grab our frequencies.

Very true. And to do this, you need to speak to the Digital coordinators as well as the overall governing coordinating body in your OWN area. The results of the BOM are not exactly what Pasternak reported, in my estimate. It's gonna take some time to see what falls out and how it affects ham radio as well as other modes than voice repeaters. Still and all: Let's get APRS coordinated!

73, gerry

--

Gerry Creager N5JXS  
gerry@cs.tamu.edu

- \* SAREX Co-Investigator
- \* A little radio that lets kids talk
- \* to astronauts, and smile

\*\*\*\*\*

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### 311. Zenith Laptop

From: jbc5@po.cwru.edu (Joe Carter)  
Date: Wed, 18 Oct 1995 21:13:51 -0400  
To: aprssig@tapr.org  
Message-ID: <199510190113.VAA29063@slc5.INS.CWRU.Edu>  
Rendered body type: text/plain

I have an opportunity to buy a Zenith SuperSPORT SX 386SX laptop with 3meg RAM/40meg HD monochrome LCD screen for about \$350. I am interested in using it mostly for mobile/portable APRS. Does anyone have any experience with this laptop? Is this a reasonable price or can I do better in this price range. Obviously the machine can run Win386 but not anything else much without a bigger HD and more RAM. Anyone know how easy/hard this machine is to upgrade? It has one Serial port but also a "Modem" port which sounds as though there should be some way to use it as a 2nd serial port. I have followed the Windoze porting debate and understand the advantage of Bob's original "run on a 8088 machine but will I be limiting myself if the port to windows takes off? Also I know the advantages of a Mac Powerbook, just wish I could afford one! Thanks for the help.

Joe, AA8SF  
jbc5@po.cwru.edu

---

### 312. Re: [APRSSIG:3895] Same problem

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 18 Oct 1995 21:53:41 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951018215035.14622D-100000@greatlakes>  
Rendered body type: text/plain

On Tue, 17 Oct 1995, William Nolle wrote:

- > Also found another bug that if i have my map centered on Madion county and
- > i move my cursor on WB7VDN's house on the map and then hit M-P-R APRS
- > crashes to Dos.

APR APPOLOGY: This bug has been in there for a while, and I keep forgetting to fix it. If you move the cursor DIRECTLY south from the center of the screen and then do a M-P-R, you will crash. Sorry... It may also do it NORTH too. But if you hit either the left or right arrow ONCE, then it will NOT crash..

Bill, confirm back to me if this was the case...

---

### 313. Re: [APRSSIG:3897] Re: 440 APRS frequency

From: barrettd@crpl.cedar-rapids.lib.ia.us  
Date: Thu, 19 Oct 1995 11:03:21 -0500  
To: aprssig@tapr.org

Message-ID: <199510190403.XAA08729@sys1.tapr.org>  
Rendered body type: text/plain

>It is to our collective advantage to have our activities coordinated,  
>then next years grabbers will not be inclined to grab our frequencies.  
>  
>Bob     n6fri

I was tempted to quote all of Bob's message on the future of frequency coordination since it was a well stated message. Frequency coordination has been a fact of life for ages in the non-ham spectrum. It takes 3 months or more for me to receive an allocation and many times they are secondary use allocations that come with severe restrictions on ERP, antenna height and location.  
I hope a serious effort is or will be made to assure UI type packet allocations for APRS can be permanently in place. I truly believe that APRS contains so many benefits for public service, that I'd hate to see it crippled by the lack of permanent protected allocation's

barrett

---

### 314. ULTIMETER-2000

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 19 Oct 1995 00:08:46 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951018235701.15310A-100000@greatlakes>  
Rendered body type: text/plain

Keith and I now have U-2000's in hand and are coding to the new formats. I saw the U-2000 advertized in this months popular Science, so I assume PEET BROS doesn't mind telling everyone that they are out.

I do not have details as to as to whether they are shipping them yet.

Here is roughly what's new:

It has 4 serial output modes:  
1 normal data logging about 1/sec  
2 packet mode for remote ops with TNC (one every 5 mins w PEAK values)  
3 Modem mode. Outputs on interrogation  
4 DUMP mode. 400 plus bytes of data

The anemometer wind vane looks identical, but clearly has ball bearings and therefore will spin at lower wind speeds... I didn't look at the spec, but it will certainly read to lower values. You can FEEL the difference!

INCLUDES BAROMETRIC PRESSURES AND BOTH INSIDE AND OUTSIDE HUMIDITY!

Cost is above \$350 I think, and I forgot to look to see if the BARO and HUMIDITY and RAIN sensors were in addition to that or not....

I should have looked up more of the details, but I don't have it handy, but for those of you that needed BARO and or humidity and a CLASSY instrument, now it is here! And the remote packet capability is a real advantage for those planning a remote SKYWARN network...

This has been over a year in the making, and it looks like it was worth the wait...

DE WB4APR in Annapolis MD. (Not anywhere near GreatLakes)

---

### 315. What's APRS stand for?

From: DDOBBINS@aol.com  
Date: Thu, 19 Oct 1995 00:28:24 -0400  
To: aprssig@tapr.org  
Message-ID: <951018222737\_127335803@emout04.mail.aol.com>  
Rendered body type: text/plain

Aloha de Dave/WH6YC, and a long time APRS user. I'm curious though why the DOS version of APRS, and the Macintosh version, APRSM, have the same acronym, but a different name:

DOS version: APRS = Automatic Packet Reporting System  
MAC version: APRSM = Automatic Position Reporting System Macintosh \*

As posted on the APRSM WWW site sponsored by Keith, WU2Z.

Is there a reason why the name is different?

---

### 316. 73 article

From: rwf <rwf@mindspring.com>  
Date: Thu, 19 Oct 1995 00:55:14 -0400  
To: aprssig@tapr.org  
Message-ID: <199510190455.AAA20568@dylan.mindspring.com>  
Rendered body type: text/plain

The current "73 Magazine" (November 95) has a very nice article by Bill Brown, WB8ELK, about out recent Atlanta Balloonatics balloon launch.

There are several mentions of APRS in it. There are pictures of both the GPS/APRS payload and the ATV/beacon package.

Everywhere I turn, APRS seems to be being mentioned.

If you look closely, you may see a pic of someone whose name you recognize.

The article is just after the "Homing In" article by Joe Moell, but completely escaped the table of contents for some reason.

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA  
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info  
FTP: <ftp://www.mindspring.com/users/rwf> for ATV, GPS, APRS info  
Another ATV and GPS Balloon Flight coming up soon from Atlanta, GA  
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

---

### 317. Want to subscribe

From: intercomm.net!wnolle (William Nolle)  
Date: Thu, 19 Oct 1995 00:20:58  
To: tapr.org!aprssig  
Message-ID: <199510190521.AAA12768@sys1.tapr.org>  
Rendered body type: text/plain

Hello Bill KE4EER here, i changed providers so i have a new address. When i first logged on with my new address there where 50 messages waiting to be read, don't know how this could happen?. Now i have not received one since, even tough i have attempted to resubscribe!. I noticed in the past that when subscbing you received back some type of conformation from the Sig server, but i can't get anything anymore HELP PLEASE i miss the sig....

Bill KE4EER  
wnolle@intercomm.net

---

### 318. DELORME MAPS FOR APRSM

From: DDOBBINS@aol.com  
Date: Thu, 19 Oct 1995 02:51:26 -0400  
To: aprssig@tapr.org  
Message-ID: <951018223030\_127337702@emout06.mail.aol.com>  
Rendered body type: text/plain

Aloha again de Dave/WH6YC. Awhile back there were a number of msgs posted ref use of Delorme maps as featured on City Streets CD. I recently bought the CDRom, and love the maps. I did not read any of the earlier postings, so am asking those who have direct experience with the topic at hand to please just give me the highlights. I posted this same msg to Keith/WU2Z a week ago, but received no reply. Perhaps he's busy, so I'll ask the SIG. Thanks, Dave. A validated APRS, that's Automatic Packet Reporting System, user. Aloha.

---

### 319. Test Message

From: intercomm.net!wnolle (William Nolle)  
Date: Thu, 19 Oct 1995 04:27:34  
To: tapr.org!aprssig  
Message-ID: <199510190928.EAA19413@sys1.tapr.org>  
Rendered body type: text/plain

Testing my addressing for the Sig. Please let me know if something doesn't look right!.

Bill KE4EER  
wnolle@intercomm.net

---

### 320. RE: What does APRS stand for?

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Thu, 19 Oct 95 8:25:41 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.814105541.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

> I'm curious though why the DOS version of APRS, and the Macintosh version,  
> APRSM, have the same acronym, but a different name:  
>  
> DOS version: APRS = Automatic Packet Reporting System  
> MAC version: APRSM = Automatic Position Reporting System Macintosh \*  
>

Even in the first article about APRS, what it actually stood for was a little confusing.

The actual title of the article was Automatic AX.25 POSITION and Status Reporting and a references to the software name was AUTOMATED POSITION REPORTING SYSTEM.  
(ARRL 11th Computer Networking Conference, Nov 1992, Teaneck, NJ Page 17)

Then for a LONG time it has been called Automatic PACKET reporting system.

More recently, many people have been saying Automatic POSITION Reporting System. And I had thought I had seen Bob use this name. Also there was another Web site that listed it as Automatic Packet/Position Reporting System But this would be APPRS, So it really doesn't matter a lot.

The web pages have only been RECENTLY updated, i.e. Oct 16, when we put up the Windoze screen shot. (Check it out!)

The APRSM is only the on-air identifier to allow the Mac version of the software to recognize what machines are Macs and which are not.

The Windoze version will be APRSW, and if we ever do an X-Windows version (For UNIX systems) it will be APRSX.

This allows the more sophisticated software to do fancy things with the information.

|                                                                                                                                                                                       |                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Keith Sproul<br>Student Housing Network Coordinator<br>Rutgers University Computing Services<br><a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | Ham Radio: WU2Z<br>ksproul@noc.rutgers.edu<br>908 445-3695 Work 908 445-2968 Fax<br>908 821-4828 Home |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

---

### 321. KPC3/PACCOM TNC's

From: jkeck@smartlink.net (james keck)  
Date: Thu, 19 Oct 1995 05:48:27 -0700  
To: aprssig@tapr.org  
Message-ID: <199510191246.FAA10357@warpl0.smartlink.net>  
Rendered body type: text/plain

I have both the Paccom, Tiny2 and the KPC 3 TNCs that are GPS capable.

I also have the Garmin 50 GPS along with a laptop that I have been trying to get setup for mobile operation.

I ran headlong into some things that I would like confirmed, suggestions for, etc....

It seems that the Tiny 2 only receives one string (GPP) that the Garmin does not provide. If I am correct, is there any solution?

The KPC 3 on the other hand seems to be capable of using a variety of the strings that are being provided by the GPS...Which one is best to use?

Also, it seems that I remember someone posting some information on the KPC 3 and how to best set things up within the past few months...If anyone retained that info and would send it along, I'd appreciate the information.

73...Jim, N6HNY

---

### 322. GPS HELP

From: gustavoc@pinos.com  
Date: Thu, 19 Oct 1995 10:08:26 +0500  
To: aprssig@tapr.org



Message-ID: <199510190643.AA08291@server1.startel.com.ar>  
Rendered body type: text/plain

Hello!

I planned use the gps receiver that I bought with my tiny 2 last year in a balloon launch. The gps is a Trimble SVEE6CM, (NMEA 0183 ascii format). It has four wire, black, blue, red and orange. Can somebody tell me what is each wire, and the out level, (RS232, TTL, etc). My plan is to send the data in ascii format.

Thanks for your help.

Gustavo, LW2DTZ.

---

### 323. Re: [APRSSIG:3910] KPC3/PACCOM TNC's

From: dwetzel@acs.uswest.com  
Date: Thu, 19 Oct 1995 08:16:23 -0500  
To: aprssig@tapr.org  
Message-ID: <08647250@acmspgw1.mnet.uswest.com>  
Rendered body type: text/plain

I have both the Paccom, Tiny2 and the KPC 3 TNCs that are GPS capable.

I also have the Garmin 50 GPS along with a laptop that I have been trying to get setup for mobile operation.

I ran headlong into some things that I would like confirmed, suggestions for, etc....

It seems that the Tiny 2 only receives one string (GPP) that the Garmin does not provide. If I am correct, is there any solution?

The KPC 3 on the other hand seems to be capable of using a variety of the strings that are being provided by the GPS...Which one is best to use?

Also, it seems that I remember someone posting some information on the KPC 3 and how to best set things up within the past few months...If anyone retained that info and would send it along, I'd appreciate the information.

73...Jim, N6HNY

-----

Jim - Here are the complete texts of the responses I have gotten so far relating to Kantronics products and GPS.

For all, if you haven't already done so, please take a minute and use the following format to email me a description of your stand-alone trackers for a sig configuration "bible" that I'm compiling. Thanks

Doug Wetzel  
KC7CO  
dwetzel@acs.uswest.com

----- GPS Responses Below: -----

>Thanks to the two of you who (Thanks Bill and Bill!) responded to my  
>request for  
>GPS/TNC configuration info. I'd still like to hear from others who have  
>successfully integrated GPS with a TNC, either stand alone or with an APRS  
>computer.

>

>

>TNC Make and Model:

Kantronics KPC-9612

>TNC Firmware Rev:

6.0 (GPS supported)

>

>GPS Receiver Make and Model:

Garmin GPS-45

>GPS Receiver Firmware Rev:

>

2.41

>Interface Converter/Switch Make and Model:

None

>Cable Pinout (sample below)

```
>
>Laptop      TNC      GPS
DB-9         DB-25
> 3 -----> 2 ----->
> 2 <----- 7 <----->
          25 <-----> <-----> coaxial power jack +12VDC
          <-----> <-----> <-----> power & data ground
>
>TNC Cable Connector Type:
>GPS Receiver Cable Connector Type:
```

Garmin data/power cable wired to DB-25 for TNC, DB-9 for computer and to a coaxial power jack.

>

>Comments:

With parallel DB connector GPS can talk to both computer & TNC. Computer can also upload GPS using Gardown7 software. Computer cannot talk to TNC but could if I added a switch to reverse data in & out (pins 2 & 3) to computer.

TNC and GPS are both powered together. KPC-9612 internal jumpers set to connect DB-25 pin 25 to internal power. 12 VDC can be connected either via TNC coaxial power jack or jack attached to Garmin power/data cable. GPS can also be powered without any other connection via jack attached to cable, I use a cigarette lighter plug in the car.

I also use the Radio Shack scanner antenna coaxial cable (with suction cups) to place the GPS-45 antenna on the car roof.

If you want more detail on the connector pins, I can open the connector shells and record them.

Phil Keys  
KJ7ET

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue  
Software Consultant - specializing in software safety & SQA  
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

-----

I have successfully used the following combinations of TNC/GPS for mobile operation:

Garmin GPS-50 ver 2.11 with Hardware Single Port (HSP) switch, homemade from the APRS readme GPS docs, and both an MFJ-1270C and a Kantronics KPC-3 with version 6.0 firmware.

I have also used the Garmin GPS-50 v 2.11 with the KPC-3 directly connecting the Garmin brown wire to the KPC-3 serial port pin 2 and the black wire to pin 7. No additional interface was needed.

Both configurations work very well. 73 - Bill WB3V

-----

Bill Howard wjh@ideas.com web - <http://baretta.ideas.com/>  
Science Applications International Corporation, Ideas Group  
7120 Columbia Gateway Dr., Columbia, MD 21046  
Voice:(410)312-2060 Fax:(410)312-2250

-----

---

## 324. Only in Canada ehhhh!

From: david.kerr@projectx.com (DAVID KERR)  
Date: Thu, 19 Oct 95 10:21:00 -5  
To: aprssig@tapr.org  
Message-ID: <8B3526D.002100065E.uuout@projectx.com>  
Rendered body type: text/plain

Hi Bob,

I have been reading all the "debate" over 2m & 450 frequencys and surprised that you have not mentioned the National 2 m APRS for CANADA. We did try an secure the 145.790 2m frequency for APRS but alas it was just

impossible as it was already used by a number of nodes and bulletin boards. We did however manage to secure a National APRS frequency. We went thru the local Packet Freq Coordinator and then up the pipe and this frequency is now recognized by all.

So if any APRS users are travelling in Ontario or Western New York, there are at least five (so far) APRS digi NOW operating. There are 3 in Canada (ehhh) and 2 in W.NY. If others USA areas are having trouble securing the 145.790 freq, possibly 144.390 would be a good alternate.

Is it possible to get a list of Canadian Registered APRS users so we can keep in touch.

73 de Dave, VE3FGK

---

### 325. Re: [APRSSIG:3909] RE: What does APRS stand for?

From: jra@ag9v.ampr.org  
Date: Thu, 19 Oct 1995 11:48:03 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <199510191548.LAA29790@ag9v.ampr.org>  
Rendered body type: text/plain

You (Keith Sproul) write:

>

>> I'm curios though why the DOS version of APRS, and the Macintosh version, >> APRSM, have the same acronym, but a different name:

>>

>> DOS version: APRS = Automatic Packet Reporting System

>> MAC version: APRSM = Automatic Position Reporting System Macintosh \*

>>

>Even in the first article about APRS, what it actually stood for was a little >confusing.

Gee, I thought it stood for "APR's Stuff"!

John

--

John Ackermann AG9V  
Internet: jra@ag9v.ampr.org  
Packet: AG9V@N8ACV.#DAY.OH.USA

---

### 326. subscribe

From: Jerry Reed <jreed@primenet.com>  
Date: Thu, 19 Oct 1995 09:03:09 -0700 (MST)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSD.3.91.951019090206.8782A-100000@usr4.primenet.com>  
Rendered body type: text/plain

subscribe

---

### 327. Digitizer tablet help needed

From: BOB DERDERIAN <n2iph@beta.delphi.com>  
Date: Thu, 19 Oct 1995 13:18:18 -0400  
To: aprssig@tapr.org  
Message-ID: <199510191718.NAA15406@ernie.beta.delphi.com>  
Rendered body type: text/plain

Hello all,

I have a CalComp model 2500 tablet that I have been trying to get to work with mapfix15.exe or any previous version of mapfix. I have the tbalet, 16 button mouse, and necessary cabling (I think). I need to know how to setup the tablet so it will communicate with serial port of my computer.

There is a menu line at the left top of the active area which has 8 selections as follows;

```
-----  
-----  
      1      |  2  |  3  |  4  |  5  |  6  |  7  |  
8      |  
TRANSDUCER | USER 1 | USER 2 | PROXIMITY | TRANSMIT | RECEIVE | HANDSHAKE |  
DISABLE |  
-----  
-----
```

Each of these boxes also contains a LED which can be toggled on/off. Towards

the top center of the active area of the tablet are three more such boxes, they are labeled;

TEST | SETUP | BANK |  
-----

There what appears (though not marked) a reset button located on the back of the tablet between the mouse port and the serial jack, is this its function?

The tablet appears to be working OK, I can click on any of the menu boxes and the LED will toggle from its current state. When the mouse is over the active area of the tablet and I click any mouse button the transducer and transmit LEDs light momentarily. I do not have any CAD or drawing software that will work with this tablet, only mapfix. I have used a SummaSketch with mapfix without problems. Tried obvious stuff like swapping serial cables, COM ports, even different computers.

When I click the mouse button while running a terminal program on COM1 set for (assumed PARAMs) 96,N,8,1 I see nothing on the screen, not even gibberish. I have tried different combinations of baud, parity, etc to no avail.

What I would like from anyone in the SIG or elsewhere is some info on how to set this tablet to work with mapfix15 and what the menu boxes on the tablet are for. A photocopy of some manual pages explaining this would be helpful and much appreciated.

TNX es 73...Bob

---

### 328. suscribe

From: berlyn@epix.net (Bernie Andreoli)  
Date: Thu, 19 Oct 95 13:33:57 PDT  
To: aprssig@tapr.org  
Message-ID: <Chameleon.951019133603.berlyn@epix.net>  
Rendered body type: text/plain  
suscribe listproc@tapr.org Bernie Andreoli

---

### 329. Re: [APRSSIG:3904] What's APRS stand for?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 19 Oct 1995 13:33:36 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951019105456.21533B-100000@greatlakes>  
Rendered body type: text/plain

On Wed, 18 Oct 1995 DDOBBINS@aol.com wrote:

> Aloha de Dave/WH6YC, and a long time APRS user. I'm curios though why the DOS  
> version of APRS, and the Macintosh version, APRSM, have the same acronym, but  
> a different name:  
>  
> DOS version: APRS = Automatic Packet Reporting System  
> MAC version: APRSM = Automatic Position Reporting System Macintosh \*

APR REPLY: The machines are different, and Keith wanted a way to make it obvious that the packets were coming from a MAC machine without waiting for the position/symbol. APRS also stands for AUTOMATIC POSITION REPORTING SYSTEM too, depending on the context.

---

### 330. Re: [APRSSIG:3909] RE: What does APRS stand for?

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Thu, 19 Oct 1995 12:58:45 -0500  
To: aprssig@tapr.org  
Cc: ksproul@hardees.rutgers.edu  
Message-ID: <v02130501acac3e942f92@[199.1.11.108]>  
Rendered body type: text/plain

INFORMATION VIA KEITH SPROUL

>> APRS DOS version of APRS  
> APRSM Mac version cs and which are not.  
>  
> APRSW, The Windoze version  
> APRSX For UNIX systems  
>  
>This allows the more sophisticated software to do fancy things with the

>information.

-----

If we are running a standalone (no computer) GPS tracker what would be a good APRS string to use to let people and software know about the setup.

I have been using the following strings with my KPC-3 GPS tracker:

LTP

1 APRSM VIA RELAY

2 APRS VIA RELAY,RELAY

3 NONE

4 NONE

But this leads people to believe it is a full computer run APRS system and they try to send messages.

Do we need to use a different string for trackers like APRST. ???

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

### 331. Re: [APRSSIG:3917] suscribe

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Thu, 19 Oct 95 14:07:11 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.814126031.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

You need to send this to

listserv@tapr.org

the text should be

subscribe aprssig <your name>

Keith

|                                                                                       |                                    |
|---------------------------------------------------------------------------------------|------------------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z                    |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu            |
| Rutgers University Computing Services                                                 | 908 445-3695 Work 908 445-2968 Fax |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home                  |

---

### 332. RE: What Does APRS Stand For & Tracker Boxes

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Thu, 19 Oct 95 14:27:22 EDT  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.814127242.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

> INFORMATION VIA KEITH SPROUL

>

>

> If we are running a stand-alone (no computer) GPS tracker what would be a  
> good APRS string to use to let people and software know about the setup.

>

> I have been using the following strings with my KPC-3 GPS tracker:

> LTP

> 1 APRSM VIA RELAY

> 2 APRS VIA RELAY,RELAY !!!! USE THIS !!!!

> 3 NONE

> 4 NONE

>

The ONLY software that currently does anything with this info is the Macintosh version.. The Windoze version will too..

For a stand-alone tracker run

unproto APRS via <what ever is appropriate....>

do NOT use APRSM or anything else..

Keith

|                                                                                       |                                    |
|---------------------------------------------------------------------------------------|------------------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z                    |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu            |
| Rutgers University Computing Services                                                 | 908 445-3695 Work 908 445-2968 Fax |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home                  |

---

### 333. Re: [APRSSIG:3918] Re: What's APRS stand for?

From: sproul@ap.org (Mark Sproul)  
Date: Thu, 19 Oct 1995 14:32:17 -0400  
To: aprssig@tapr.org  
Message-ID: <v0211010bacac471b90a0@[165.1.27.20]>  
Rendered body type: text/plain

>> Aloha de Dave/WH6YC, and a long time APRS user. I'm curious though why the DOS  
>> version of APRS, and the Macintosh version, APRSM, have the same acronym, but  
>> a different name:  
>>  
>> DOS version: APRS = Automatic Packet Reporting System  
>> MAC version: APRSM = Automatic Position Reporting System Macintosh \*  
>  
>APR REPLY: The machines are different, and Keith wanted a way to  
>make it obvious that the packets were coming from a MAC machine without  
>waiting for the position/symbol. APRS  
>also stands for AUTOMATIC POSITION REPORTING SYSTEM too, depending on the  
>context.

The APRSM, is ONLY, I repeat ONLY the text that gets transmitted over the  
air in the TO field of the packet. The name of the program has NEVER, I  
REPEAT NEVER been APRSM. It has ALWAYS been MacAPRS. Bob's original  
article used both  
Packet and Position, for the "P" in APRS. After reading over the original  
article several times, it appears (I don't mean to be putting words in Bob's  
mouth) that Bob's original intent was "Position".

Again, the Mac version is "MacAPRS", NOT "APRSM".

It is our intent, for the name to be:

Mac Automatic (insert P-word here) Reporting System

By the way, for those that have not noticed, the Official name for the  
Windows version is

"MacAPRS for Windows"

MacAPRS for Windows is coming along very good, I posted a message yesterday  
about the progress and we have an early screen shot up on the web at

<http://www-ns.rutgers.edu/~ksproul/APRS>

Mark Sproul  
KB2ICI  
Keith's Twin Brother  
MacAPRS co-author  
(the guy behind the scenes that makes lots of the bells and whistles work,  
also the guy that is porting MacAPRS to Windows)

---

|                                                                             |                       |
|-----------------------------------------------------------------------------|-----------------------|
| Mark Sproul                                                                 | Amateur Radio: KB2ICI |
| Software Engineer @ Assoc Press                                             | AppleLink: Sproul.M   |
| sproul@eos.ap.org                                                           | Work: 609-860-7120    |
| North Brunswick, NJ                                                         | Fax: 609-860-7129     |
| <a href="http://pilot.njin.net/~msproul">http://pilot.njin.net/~msproul</a> |                       |

---

### 334. waiting for validation number

From: Fusion2U@aol.com  
Date: Thu, 19 Oct 1995 14:55:33 -0400  
To: aprssig@tapr.org  
Message-ID: <951019145533\_48813896@mail04.mail.aol.com>  
Rendered body type: text/plain

hello, I sent you a check for a validation number and GPS,WX software by you, i mailed the check on 8-3-95 and the canceled check shows that you cashed it on 8-21-95 by using # 9500315145 in the area of endorsement. I know that you are probably pretty busy trying to cover all request that come in but after talking to some of the other hams in the area it seems that it is taking longer to get the validation number and other material from you then they had waited. As you know without the validation number the program is limited and i am running aprs71b version. also the mail service here in the florida keys is not the greatest and they have lost mail before. If possible could you look into this matter or let me know if you are sending the required material. you can e-mail me at FUSION2U@AOL.COM. or my mailing address is James H. Price 765 MUSA DR. Key Largo,Fl. 33037 . Ham call sign N4UNT. thank you for your consideration in this matter.  
James Price

---

### 335. Garmin TrakPak...

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)  
Date: Thu, 19 Oct 1995 12:39:06 -0700  
To: aprssig@tapr.org  
Message-ID: <v01520d06acab4d73b677@[129.131.31.10]>  
Rendered body type: text/plain

Hi all!

Just saw this cool toy in the Garmin catalog. The TrakPak is a combined GPS receiver/antenna with just a serial/power cable leaving it. It looks like it's about 3x2x1.5" (not sure, tho). No display. I guess it talks NMEA and/or Garmin protocol. The price list was \$240 in lots of 5-99 units.

To me, this looks like the ideal mobile tracker GPS unit (except for the PacComm integrated GPS/TNC combos) Real small, no need for a display, no annoying antenna and cable (ok, just one less cable to deal with). Just put an adhesive backed magnetic tape on the back and the whole GPS is magmount!]

Anyone play with this yet?

73, jan  
kc6uth

|                        |                                      |
|------------------------|--------------------------------------|
| Jan Anthony Barglowski | Phone: (619) 927-1057                |
| Computer Graphics Dude | Internet: jan@vislab.navy.mil        |
| VisLab, China Lake     | Packet: KC6UTH@WA6YBN.#SOCA.CA.US.NA |

---

### 336. RE: [APRSSIG:3919] RE: What does APRS stand for?

From: Larry Griffin <largriff@onramp.net>  
Date: Thu, 19 Oct 1995 15:24:21 -0500  
To: "'aprssig@tapr.org'" <aprssig@tapr.org>  
Message-ID: <01BA9E39.08F7EC20@lub16.onramp.net>  
Rendered body type: text/plain

-----  
From: Robert Winingham[SMTP:k5ejk@onramp.net]  
Sent: Thursday, October 19, 1995 1:15 PM  
To: aprssig@tapr.org  
Subject: [APRSSIG:3919] RE: What does APRS stand for?

I have been using the following strings with my KPC-3 GPS tracker:  
LTP  
1 APRSM VIA RELAY  
2 APRS VIA RELAY,RELAY  
3 NONE  
4 NONE

But this leads people to believe it is a full computer run APRS system and they try to send messages.

Do we need to use a different string for trackers like APRST. ???

-----

Standalone TNCs with GPS should digi to GPS (via...) instead of APRS (via...)

Larry

begin 600 WINMAIL.DAT

```

M>)\^(@H4`0:0" ` $`~~~~~!`$`0>0!@`(``Y 0`~~~~~#H`$-@ 0`
M`@`~~~~(`@`!!) &`P!`~~~~#`~~~~,`#`#`~~~~"P`/#@`~~~~"?\/
M`0`~~~\`~~~~~@2L?I+ZC$!F=;@#=#0]4`@`~~~~!A<')S<VEG0'1A<'(N
M;W)G`%-5%`87!R<W-I9T!T87!R+F]R9P`~@`",`$`~~~~%`~~~~4TU44`~
M`~>`~,P`0`~~~!$`~!A<')S<VEG0'1A<'(N;W)G`~~~~,%0P!`~~~~P#^
M#P8`~~~~>`$P`0`~~~~!`~~~~G87!R<W-I9T!T87!R+F]R9R<`~~~~(!"S`!`~~~~
M%@`~~~%-5%`Z05!24U-)1T!405!2+D]21P`~~~~,`#D`~~~~"P!`.@`$`~~~~
M`?8/`0`~~~~0`~~~~~#S$RX!"( `!@`~~~~!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $S@`$`,0`~~~~)%B!;05!24U-)1SHS.3$Y72!213H@5VAA="!D
M;V5S($%04E,@<W1A:F0@9F]R/P!X#$%@``,`#@`~~~~,L!"@`3`~~~&`5`~0`
M+P$!((`#`X`~`#`+!PH`$P`/`!4`#0`$`"0!`0F`~0`A`~~~~-#0513@R-D4R
M.3!!0T8Q,3DP130T-#0U-3,U-#`P,#`~T`8!`Y`&`&`$`~2`~~~~"P`C`~~~~
M`~`#`"8`~~~~~L`*0`~~~~~P`V`~~~~!`#D`@!&_wv">N@$>`~`~0`~
M`#$`~~~~!213H@6T%04E-324<Z,SDQ.5T@4D4Z(=%H870@9&]E<R!!4%)3('`-T
M86YD(&90<C\`~~~~~@%Q`~$`~~~~6`~~~~;J>8-^U;H(^10HI$<^0Y$14U0`
M`~~~~@`>#`$`~~~~%`~~~~4TU44`~~~~>`\,`0`~~~~!0`~~~~!M86EL:&]S="YO
M;G)A;7`N;F5T`~,!A#I.*)0`P`'$`.!`~~~~>`~0`0`~&4`~~~~M+2TM+2TM
M+2TM1E)/33I23T)%4E1724Y)3D=(04U33510.DM#-45*2T!/3E)!35!..1513
M14Y4.E1(55)31$%9+$]#5$]"15(Q.2PQ.3DU,3HQ-5!-5$Z05!24U-)1T!4
M05!2`~~~~~(!"1`!`~`S`(``,`@`~`#X!`~`3%I&=74`!#S`~`H!#P(5`J@%
M2P`#`%`~"@D"~&-H"L!S970R-P8`~L,"@S(#Q0(`<')"<1`B<W1E;0`#`W<"
MY<3`H!]"H(SPG9._$6#5(U-0`"H$-L0M@8&YG,3`S%`+`VP0:3$X,+1
M:2TQ`#0T#?`~T!IS"UDQ-M<*H`-@$]!C!4`M')<*A];<2PPP!9&V$Z`9X<
M%ML,@@?Q8@20!4!7`X`+@`G)$8!M6U--5%`~.FMC-65J:T!%`B!R(C!P+FX1
MP%T_`3\>309@`C`??R"+5&@!"!`!S9&%Y+"!/8QQ@((6(@,3DH<"D0.9(U*0`Z
M,2F`4$TCW]D>3510)A\@BV$34`006&EG0`&0$U`N!;!GXRH?).YU8FH<42P_
M((L`6T%04E-324>H.C,Y*1!!=!_!%,8!F5Q&`!4!D;P>1,W(@DQ/`~!D( `(0
M<C`*A?`,`BQG0,S8;%Q11"_(<%L1)(!&`=F4@(7`)\(P@=0`0&1`@=&@Y</T"
M$&P5H`/P.A$3P`40&1`!`" `#`#I`(&UY($N`45,M,R!'4`7PJSLP`-!K!)`Z
M"H5,(H`%`H4Q-2--(%9)0?$T04Q!60J%$>`U,S[(ABP`&CQ@3D].10J%YC1!
MR@J%0G4%0#I`!`~@(&QE860$(!E0F\+4#EP*+`Y@1G093EA5SNP1<`$(&$U
MT`4ZH`#`/!:`C8$/0`.%R=0.~-33_[$,`*A36B.D$~`#LP20%,$<1L#6Q!X%5
M86<'D"[U-BQ$13!W.7`CD`F`11+7.>`Y<$8P9`09@20)>%0.Q4UTCVR1#%I
M/0`U(U3X+B`_3S`0`3@T-HPWS+YC`$`<B5-/`'+U0Q5,UDL<'0`(@.7!43D,[
MA3R`-'-H"&!!L-<!D&=I4T42/((H=@<P+EC`*8)%P`" ` $]!$<`!09C4D>UB&
M-BQ,"L!)).%`%`3$`~5QP`P`0$`~`~`#`!$0`~~~~$`~!S!`%508)ZZ`4`~
@`#`!`%508)ZZ`1X`/0`!`~~~~!0`~~~~)%B`~`~`V2H`
`

```

end

### 337. Re: [APRSSIG:3910] KPC3/PACCOM TNC's

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Thu, 19 Oct 1995 18:52:04 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510192352.SAA13551@solar.cs.tamu.edu>  
Rendered body type: text/plain

james keck sez:

```

>
> I have both the Paccom, Tiny2 and the KPC 3 TNCs that are GPS capable.
>
> It seems that the Tiny 2 only receives one string (GPP) that the Garmin
> does not provide. If I am correct, is there any solution?

```

Nope. the Tine2 expects a rational datastring: The NMEA GGA sentence which gives position and altitude in one string. The GPSTEXT command in the Tiny2 allows you to customize it so you can grab something else... I have been known to set mine to \$GP and grab all the NMEA strings.

Within the NMEA standard, the precursor \$GP indicates the information is NMEA 0183, and produced by a GPS engine. The next 3 characters (ie., GGA) indicate the NMEA standard sentence type. In the case of manufacturer-specific or proprietary sentences, they'd issue soemthing else, like \$PGXYZ for a proprietary, Garmin sentence called XYZ... whatever that might be.

```

> The KPC 3 on the other hand seems to be capable of using a variety of
> the strings that are being provided by the GPS...Which one is best to use?

```

Because of some initial problems with the KPC3 when I first met it I developed an irrational preference for the Tiny2. That, and I have about 25 of their smaller cousins on some cows right now!

The KPC3 offers some potential advantages, which PacComm is aware of, and I \*think\* is going to address: Being able to change parameters from afar, chief among them.

Me? I'll stick with the PacComm hardware.

73, gerry



— —

|                                                                                                                                                                                       |                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Keith Sproul<br>Student Housing Network Coordinator<br>Rutgers University Computing Services<br><a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | Ham Radio: WU2Z<br>ksproul@noc.rutgers.edu<br>908 445-3695 Work 908 445-2968 Fax<br>908 821-4828 Home |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

---

### 340. Re: [APRSSIG:3915] subscribe

From: wricharz@ix.netcom.com (WILLIAM M. RICHARZ )  
Date: Thu, 19 Oct 1995 17:23:46 -0700  
To: aprssig@tapr.org  
Message-ID: <199510200023.RAA21057@ix10.ix.netcom.com>  
Rendered body type: text/plain

You wrote:

>  
>subscribe  
>  
>

Hi Jerry, think you're supposed to address your Email to  
"listserv@tapr.org" No subject & in the body just put "subscribe  
aprssig firstname lastname" without the quotes...think tht's the way I  
did it...Hope it works...  
73 de Bill

---

### 341. GPS HELP

From: gustavoc@pinos.com  
Date: Thu, 19 Oct 1995 21:54:14 +0500  
To: aprssig@tapr.org  
Message-ID: <199510191828.AA14812@server1.startel.com.ar>  
Rendered body type: text/plain

Hello!

I planned use the gps receiver that I bought with my tiny 2 last year in a  
balloon launch. The gps is a Trimble SVEE6CM, (NMEA 0183 ascii format).  
It has four wire, black, blue, red and orange. Can somebody tell me what is  
each wire, and the out level, (RS232, TTL, etc). My plan is to send the data  
in ascii format.

Thanks for your help.

Gustavo, LW2DTZ.

---

### 342. Standalone trackers

From: Dick Mead <mead@skat.usc.edu>  
Date: Thu, 19 Oct 95 17:36:28 PDT  
To: aprssig@tapr.org  
Message-ID: <CMM.0.90.2.814149388.mead@hamal.usc.edu>  
Rendered body type: text/plain

One method you can use to prevent (or discourage) folks from connecting  
to your standalone TNC/GPS tracker is built into many tnc's. If your  
tnc has "cmsg" and "cmsgdisc", you can use it to send a polite message  
to anyone connecting to the tnc and then it automatically disconnects.  
You should also probably set users=0, unless the tracker needs =1...  
I use this method on my tracker and it works fine. My message points  
connectees to the proper place.

My tracker is a MFJ 1270 with 1.1.9 eprom and Magellan Meridan.

Dick WB6NGC

---

### 343. Re: [APRSSIG:3903] ULTIMETER-2000

From: moyers@ibm.net  
Date: Thu, 19 Oct 95 20:34:37 +0000  
To: aprssig@tapr.org  
Message-ID: <9510200342.AA0054@slip166-241-82.lig.us.ibm.net>  
Rendered body type: text/plain

> I do not have details as to as to whether they are shipping them yet.

Bob, when I ordered mine last week they said it should ship in about 2 weeks.

> INCLUDES BARROMETRIC PRESSURES AND BOTH INSIDE AND OUTSIDE HUMIDITY!

Big plus for skywarn activites!!!

>

> Cost is above \$350 I think, and I forgot to look to see if the  
> BARO and HUMIDITY and RAIN sensors were in addition to that or not....

YEP, humidity and rain sensors are extra. They now have a Rain gauge that will read in 100th's of an inch and comes in either a wired or wireless version. The Wireless version should be useful at home in geeting the gauge out away from the trees.

Then unit also has about 200 different output statistics, Where is my fax from them when I need it.

> This has been over a year in the making, and it looks like it was worth  
> the wait...

If it is anything near what I read in the FAX it not only was worth the wait, but WELL worth the extra \$\$\$ over the Ultimeter II (and it was good).

John Moyers \* ARS: N4QEA \* Internet: moyers@ibm.net  
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

---

### 344. Re: [APRSSIG:3903] ULTIMETER-2000

From: schiers@ibm.net (hasan schiers)  
Date: Thu, 19 Oct 95 23:14:56 EDT  
To: aprssig@tapr.org  
Message-ID: <199510200115.BAA159543@smtp-gw01.ny.us.ibm.net>  
Rendered body type: text/plain

On Wed, 18 Oct 1995 23:27:55 -0500 you wrote:

>Keith and I now have U-2000's in hand and are coding to the new formats.  
>I saw the U-2000 advertized in this months popular Science, so I assume  
>PEET BROS doesnt mind telling everyone that they are out.  
>  
>I do not have details as to as to whether they are shipping them yet.

For those of us who already own U-II's...(I have a main and remote unit)

1. Will existing rain gauges work by simply plugging in?
2. Will therms work same way?
3. Can a new control head be purchased, leaving anemometer etc (as above) the same?
4. Interconnect compatibility with an existing U-II.

...or do we have to start all over? TIA

robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam

---

### 345. Re: [APRSSIG:3929] Re: subscribe

From: Greg Jones <gjones@tenet.edu>  
Date: Thu, 19 Oct 1995 20:21:11 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510200121.UAA16919@Leslie-Francis.tenet.edu>  
Rendered body type: text/plain

Replying back to the list does not help the people who had made the mistake on subscribing.

You have to send e-mail back to the person directly.

Cheers - Greg

According to WILLIAM M. RICHARZ:

>  
> You wrote:  
> >  
> >subscribe  
> >  
> >  
> Hi Jerry, think you're supposed to address your Email to  
> "listserv@tapr.org" No subject & in the body just put"subscribe  
> aprssig firstname lastname" without the quotes...think tht's the way I  
> did it...Hope it works...  
> 73 de Bill  
>  
>

---

### 346. IC-2A/2AT & KPC-3

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>  
Date: Thu, 19 Oct 1995 20:41:03 -0600  
To: aprssig@tapr.org  
Message-ID: <9510192041.AA03282@oscar.tbr.state.tn.us>  
Rendered body type: text/plain

I recently purchases an Icom 2A and a 2AT to use with a KPC-3 and a Garmin GPS 45. I have the interface for the Garmin and the KPC-3 figured out and working fine. On the other hand I am not having much luck with the IC-2A/2AT and KPC-3. I am only getting 1 or 2 packets out of a whole days worth at 1/minute. I am using an MFJ cable that is supposed to work with the Icom and worked fine with an Alinco. Does anybody have any experience with this combination? Any settings or adjustments that you can reccomend?

TIA  
Bruce

---

### 347. RE: What does APRS stand for?

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>  
Date: Thu, 19 Oct 1995 20:48:50 -0600  
To: aprssig@tapr.org  
Message-ID: <9510192048.AA50369@oscar.tbr.state.tn.us>  
Rendered body type: text/plain

Bob - Dallas,TX --- kc5ejk@onramp.net sez:

> Do we need to use a different string for trackers like APRST. ???

Great Idea!!!

73 de KQ4TV

---

### 348. Still problems

From: intercomm.net!wnolle (William Nolle)  
Date: Fri, 19 Oct 1990 21:04:37  
To: tapr.org!aprssig  
Message-ID: <199510200205.VAA16830@sys1.tapr.org>  
Rendered body type: text/plain

I know this is getting to the sig, but i'm not getting anything back from it. I have tryid to resubscribe using both the LISTSERV & LISTPROC and neither one will even verify anything. I know from before that it would always send a message back. I checked on tapr.org and it looks like the correct format is listserv@tapr.org with no subject and the content to be:

Listserv@tapr.org

subscribe aprssig william nolle

But it doesn't work!!!!

Bill KE4EER (I hate these one way message systems.)

---

### 349. Re: [APRSSIG:3937] Still problems

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>  
Date: Thu, 19 Oct 1995 21:52:21 -0600  
To: aprssig@tapr.org, wnolle@intercomm.net  
Message-ID: <9510192152.AA21509@oscar.tbr.state.tn.us>  
Rendered body type: text/plain

> I know this is getting to the sig, but i'm not getting anything back  
> from it. I have tryid to resubscribe using both the LISTSERV &  
> LISTPROC and neither one will even verify anything. I know from  
> before that it would always send a message back. I checked on  
> tapr.org and it looks like the correct format is listserv@tapr.org with  
> no subject and the content to be:  
>  
> Listserv@tapr.org  
>  
> subscribe aprssig william nolle  
>  
> But it doesn't work!!!!  
>  
> Bill KE4EER (I hate these one way message systems.)  
>  
>  
>

Bill I still think the problem is with your internet provider messing up your return address since it shows up on the sig as:

intercomm.net!wnolle@tapr.org (William Nolle)

You might try subscribing by using:

Listserv@tapr.org

subscribe aprssig william nolle wnolle@intercomm.net

This works with some listservers so that you can subscribe from one address but have the mail delivered at another.

Hope this helps,  
Bruce

---

### 350. Re: [APRSSIG:3919] RE: What does APRS stand for?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 19 Oct 1995 23:10:39 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951019230310.974A-100000@greatlakes>  
Rendered body type: text/plain

> If we are running a standalone (no computer) GPS tracker what would be a  
> good APRS string to use to let people and software know about the setup.  
> 1 APRSM VIA RELAY ?  
> 2 APRS VIA RELAY,RELAY ?  
>  
> But this leads people to believe it is a full computer run APRS system  
> and they try to send messages.

APR REPLY: Then they are being lead astray. The path has nothing to do with your hardware. The key to whether a station is APRS or MESSAGE capable is:

1) ONLY stations whos posit begins with an @ can talk. And they show up in bright white.

2) all other colors cannot be talked too... with some exceptions....

---

### 351. Re: [APRSSIG:3938] Re: Still problems

From: BillB <brannick@liberty.liberty.com>  
Date: Thu, 19 Oct 1995 20:17:35 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951019201608.9991C-100000@liberty.liberty.com>  
Rendered body type: text/plain

The message text should be one line only: subscribe aprssig <name>

Worked for me...

On Thu, 19 Oct 1995 aprssig@tapr.org wrote:

> Return-Path: aprssig@tapr.org  
> Received: from sys1.tapr.org by libfe.liberty.com with smtp  
> id \$T600103 ; Thu, 19 Oct 1995 20:13:00 EST  
> Received: from sys1.tapr.org (localhost [127.0.0.1]) by sys1.tapr.org (8.6.12/8.6.9) with SMTP id WAA19127; Thu, 19 Oct 1995 22:08:15 -0500  
> Date: Thu, 19 Oct 1995 22:08:15 -0500  
> From: "Bruce W. Martin" <martinbw@ten-nash.ten.k12.tn.us>  
> To: aprssig@tapr.org  
> Subject: [APRSSIG:3938] Re: Still problems  
>  
>  
> --part\_ACAC791500072DCE00000006  
> Content-Type: Text/Plain; charset=US-ASCII  
> Content-Disposition: Inline  
>  
> > I know this is getting to the sig, but i'm not getting anything back  
> > from it. I have tryid to resubscribe using both the LISTSERV &  
> > LISTPROC and neither one will even verify anything. I know from  
> > before that it would always send a message back. I checked on  
> > tapr.org and it looks like the correct format is listserv@tapr.org with  
> > no subject and the content to be:  
> >

```

> > Listserv@tapr.org
> >
> > subscribe aprssig william nolle
> >
> > But it doesn't work!!!!
> >
> > Bill KE4EER (I hate these one way message systems.)
> >
> >
> >
> >
> Bill I still think the problem is with your internet provider messing up your
> return address since it shows up on the sig as:
>
> intercomm.net!wnolle@tapr.org (William Nolle)
>
> You might try subscribing by using:
>
>
> Listserv@tapr.org
>
> subscribe aprssig william nolle wnolle@intercomm.net
>
> This works with some listservers so that you can subscribe from one address
> but have the mail delivered at another.
>
> Hope this helps,
> Bruce
>
> --part_ACAC791500072DCE00000006
> Content-Type: Text/Plain; charset=US-ASCII
> Content-Disposition: Inline
>
> --
> *****
> * Bruce W. Martin          Internet: martinbw@ten-nash.tn.us *
> * 4558 Brooke Valley Dr.   Internet: martinbw@jackatak.theporch.com *
> * Hermitage TN 37076-2650 AOL:      Dragon16 *
> * Voice: (615) 872-9942 HAM Call: KQ4TV *
> * FAX/MODEM: (615) 885-4182 Work: (615) 244-2022 *
> * URL: http://www.tbr.state.tn.us/~martinbw/home.html *
> * I have a 486DX33 to play games and run some HAM programs, *
> * when I want to do serious work I use a Macintosh. *
> *****
>
> --part_ACAC791500072DCE00000006--
>
>
>
>

```

## 352. Finally made it

From: intercomm.net!wnolle (William Nolle)  
 Date: Thu, 19 Oct 1995 22:17:19  
 To: tapr.org!aprssig  
 Message-ID: <199510200318.WAA19386@sys1.tapr.org>  
 Rendered body type: text/plain

I think i finally made it back on the sig (I hope). Well at least i received conformation from tapr.org. There's a great way to do this i just found out by logging into the following address and page.

<http://www.tapr.org/html/sigs/html#listserv/>

It will show a menu for all the tapr sigs and info you want, all you do is fill in your name and e-mail address, check it out works great. And thanks to those that attempted to help me!.

Bill KE4EER

## 353. APRS vs GPS

From: Bob Bruninga <bruninga@nadn.navy.mil>  
 Date: Thu, 19 Oct 1995 23:31:19 -0400 (EDT)  
 To: aprssig@tapr.org  
 Message-ID: <Pine.SUN.3.91.951019232756.974C-100000@greatlakes>  
 Rendered body type: text/plain

Someone wrote that TRACKERS should be addressed to GPS vice APRS.

That is not bad to use GPS, but it was not my intent. You may see it, since

the PacComm defaults to TO GPS unless the user sets in something else.  
But I always use UNPROTO APRS VIA RELAY,WIDE,ETC

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

---

### 354. Re: [APRSSIG:3900] Zenith Laptop

From: BenWS5R@aol.com  
Date: Fri, 20 Oct 1995 00:28:32 -0400  
To: aprssig@tapr.org  
Message-ID: <951020002830\_128385059@emout04.mail.aol.com>  
Rendered body type: text/plain

I run the 286 Zenith Supersport for mobile APRS and am happy with it. Can't help you with the upgrade info, but it sounds like a decent deal to me. 73  
Ben WS5R

---

### 355. APRS vs GPS vs APRST

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Fri, 20 Oct 1995 00:47:37 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130500acace52e020c@[199.1.11.158]>  
Rendered body type: text/plain

Here is the start of a FAQ about  
How to identify the different types of APRS system .

--Note --- set line length to 87 -----

APRS standalone GPS tracker data: Example from Garmin-45 and KPC-3 TNC

-----  
KC5EJK-9\*>RELAY>APRS:\$GPRMC,181027,A,3250.152,N,09645.063,W,000.0,334.6,1110  
95,,\*04  
KC5EJK-9\*>RELAY>APRS:\$GPGGA,181048,3250.150,N,09645.069,W,1,08,1.0,150.5,M,-  
24.8,M,,\*7E  
9 for Car symble

KCP-3 beacon in GPS mode:

-----  
KC5EJK-9\*>RELAY>RELAY>ID:KC5EJK-9 RELAY/D KC5EJK-1/B

A Mac computer APRS station:

-----  
KC5EJK>RELAY\*>APRSM:@122054z3250.76N/09645.71W-PHG5140/Bob in Dallas -201-<0d>  
Call M for Mac @ Time Lon/Lat Ant gain/power/text string  
-version -<??>

A DOS computer APRS station:

-----  
K5DTN>RELAY\*>APRS:@121729/3255.77N/09646.72W-Claude APRS7

A mobile Mac computer APRS station with a GPS system:

-----  
KC5EJK-1\*>RELAY>RELAY>APRSM:@150359z3249.93N/09642.03W/318/016/ Live GPS  
Data -201-<48>  
KC5EJK-1\*>RELAY>RELAY>APRSM:KC5EJK-1 \*150359z3249.93N/09642.03W/356/041

Note the @ in the computer APRS stations data and  
as Bob Bruninga said: " ONLY stations whos posit begins with an @ can talk. "

I would guess that if the software ever needs to identify a tracker system  
then the ":\$GP" string is the giveaway and we need not use APRST or GPS.

I am going to do as Keith/Bob said and use APRS for my standalone trackers.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

### 356. MacGPS Beta Testers Wanted

From: Bob Winingham <kc5ejk@onramp.net>  
Date: Fri, 20 Oct 95 06:41:55 0500  
To: aprssig@tapr.org  
Message-ID: <199510200640.BAA06287@mailhost.onramp.net>  
Rendered body type: text/plain  
lwjames@ix.netcom.com

If you use MacGPS and would be willing to give the about-to-be-released

new version a fairly through test, please email me.

Thanks,

Larry James  
James Associates

Send mail to Larry not me (Bob)

73

---

### 357. Re: [APRSSIG:3937] Still problems

From: Per Molund <per@proact.no>  
Date: Fri, 20 Oct 1995 07:53:58 +0100 (MET)  
To: William Nolle <wnolle@intercomm.net>  
Cc: aprssig@tapr.org  
Message-ID: <Pine.PCW.3.91.951020074921.14743L-100000@gruff>  
Rendered body type: text/plain

On Thu, 19 Oct 1995, William Nolle wrote:

> I know this is getting to the sig, but i'm not getting anything back from it.  
> I have tryid to resubscribe using both the LISTSERV & LISTPROC and  
> neither one will even verify anything. I know from before that it would always  
> send a message back. I checked on tapr.org and it looks like the correct  
> format is listserv@tapr.org with no subject and the content to be:  
>  
> Listserv@tapr.org  
>  
> subscribe aprssig william nolle  
>  
> But it doesn't work!!!!  
>  
> Bill KE4EER (I hate these one way message systems.)  
>  
>  
>

Try using Your email address instead:

Listserv@tapr.org

subscribe aprssig wnolle@intercomm.net

This is the way mailexanders are supposed to work even though a lot of people on this list think otherwise.

---per

=====

---

### 358. Re: [APRSSIG:3941] Finally made it

From: Bob Wilkins n6fri <rwilkins@ccnet.com>  
Date: Fri, 20 Oct 1995 01:50:13 -0700 (PDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951020013729.28038A-100000@ccnet3>  
Rendered body type: text/plain

On Thu, 19 Oct 1995, William Nolle wrote:

> conformation from tapr.org. There's a great way to do this i just found out by  
> logging into the following address and page.

OK you beat the system using a web browser rather than use your mailer software.. But your from: address is still broken. Look carefully at the config for your mail reader and see if you dont have your user name and mailserver or host name out of order or something. You may want to ask your service provider for help, they have probably had this happen before.

We can not reply back to you due to the malformed address. You might try a different mail program if all else fails...

Bob

Bob Wilkins  
Berkeley, California  
94712-2354

work      bwilkins@cave.org  
home      rwilkins@ccnet.com  
play      n6fri@n6eeg.#nocal.ca.usa.noam



### 359. Green WIDE problem with 7.3d?

From: Larry Griffin <largriff@onramp.net>  
Date: Fri, 20 Oct 1995 08:04:47 -0500  
To: aprssig@tapr.org  
Message-ID: <199510201304.IAA28948@mailhost.onramp.net>  
Rendered body type: text/plain

I put up a WIDE digi (TheNet node) yesterday but instead of showing green (as it should) it shows white.

The BeaconText is:  
!3328.41N/10147.35WxPHG9560/WIDE/LBB01/Lubbock TX

Is the problem with 7.3d or with me?

Larry

---

### 360. Standalone tracker digipath

From: Larry Griffin <largriff@onramp.net>  
Date: Fri, 20 Oct 1995 08:32:15 -0500  
To: aprssig@tapr.org  
Message-ID: <199510201332.IAA02118@mailhost.onramp.net>  
Rendered body type: text/plain

Ok, on Bob's suggestion I changed my standalone tracker so it now sends out packets to:

APRS V WIDE  
instead of:  
GPS V WIDE

Larry

---

### 361. F-10 "Doz" feature

From: Larry Griffin <largriff@onramp.net>  
Date: Fri, 20 Oct 1995 08:38:03 -0500  
To: aprssig@tapr.org  
Message-ID: <199510201338.IAA02928@mailhost.onramp.net>  
Rendered body type: text/plain

Bob, I like the F-10 "Doz" function!

I have an Ultimeter-II running with APRS at home and its nice that even when APRS is "Dozing" it still shows the weather data (in text mode). When I'm using other windows applications I let APRS "Doz" in a window rather than iconized, and it shows me current weather all the time. When I want to "Un-Doz" APRS I simply hit Alt-Enter to return it to full-screen mode first, then I can use any other APRS function.

This makes me realize that it should be possible to show other things like the P-list and Msg screen in "Doz" mode. What do you think Bob?

Larry

---

### 362. Re: [APRSSIG:3935] IC-2A/2AT & KPC-3

From: dkaplan@pionet.net (Dave Kaplan)  
Date: Fri, 20 Oct 1995 09:08:10 -0500  
To: aprssig@tapr.org  
Message-ID: <9510201408.AA23658@ELWOOD.pionet.net>  
Rendered body type: text/plain

>  
>--part\_ACAC685F000340FE00000002  
>Content-Type: Text/Plain; charset=US-ASCII  
>Content-Disposition: Inline  
>  
>I recently purchases an Icom 2A and a 2AT to use with a KPC-3 and a Garmin GPS  
>45. I have the interface for the Garmin and the KPC-3 figured out and working  
>fine. On the other hand I am not having much luck with the IC-2A/2AT and KPC-  
>3. I am only getting 1 or 2 packets out of a whole days worth at 1/minute. I  
>am using an MFJ cable that is supposed to work with the Icom and worked fine  
>with an Alinco. Does anybody have any experience with this combination? Any  
>settings or adjustments that you can reccomend?

Make sure the radio is not "going to sleep" in the power saver mode.

---

### 363. Re: [APRSSIG:3933] Re: ULTIMETER-2000

From: <JCOSTER@WVNMV.WVNET.EDU>  
Date: Fri, 20 Oct 1995 10:52:33 -0400 (EDT)

To: <aprssig@TAPR.ORG>  
Message-ID: <199510201454.JAA07829@sys1.tapr.org>  
Rendered body type: text/plain

Peet is selling a U-II upgrade kit with new heads, etc. \$199 until 12/31/95.  
de Jack Coster. WF8X.

---

### 364. Re: [APRSSIG:3948] Green WIDE problem with 7.3d?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 20 Oct 1995 10:55:52 -0400 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951020105147.7582E-100000@greatlakes>  
Rendered body type: text/plain

On Fri, 20 Oct 1995, Larry Griffin wrote:

> I put up a WIDE digi (TheNet node) yesterday but instead of showing green  
> (as it should) it shows white.

APR REPLY: All recent APRS software, will only show a WIDE-RELAY digipeater  
in green. You must have two callsigns in the NODE to be WIDE and the  
other to be RELAY. Once you have done this, you should put the words  
WIDE-RELAY in the BEACON text where you currently have WIDE.

For info on the importance of having WIDE-RELAY digipeaters, read DIGIS.txt.

Since mobiles will usually use an unproto path of RELAY,WIDE, that is why  
it is important to have your NODE support the alias of RELAY as well...

---

### 365. (no subject)

From: <JCOSTER@WVNM.VVNET.EDU>  
Date: Fri, 20 Oct 1995 10:50:54 -0400 (EDT)  
To: <aprssig@TAPR.ORG>  
Message-ID: <199510201512.KAA08377@sys1.tapr.org>  
Rendered body type: text/plain

;m "You'll re: [APRSSIG:3932] Re: ULTIMETER-2000  
In-Reply-To: Message of 10/19/95 at 20:14:59 from moyers@ibm.net

I have the Peet Bros. literature on the U-2000, and it says that the  
humidity sensors, as well as the rain gauges, are optional. There is  
both an indoor humidity sensor and an outdoor sensor. The indoor sensor  
is listed at \$100.00 and the outdoor humidity sensor is \$110.00. The  
0.1" raingauge is \$67.50 and the .01" gauge is \$90.00.  
They also now make a U-500 that is w/o pressure or humidity capabilities.. It  
is listed at \$199 as a special introductory offer until 12/31/95.  
And then, there is an upgrade kit for the U-II; "you'll have the Model 2000  
and almost everything you need to use your Model II as a remote". Offer for  
the upgrade expires 12/31/95.  
good luck! de Jack coster, WF8X.

---

### 366. Re: [APRSSIG:3948] Green WIDE problem with 7.3d?

From: n8mwz@alpha.wcoil.com (Bob Hartman)  
Date: Fri, 20 Oct 1995 11:50:30 -0400  
To: aprssig@tapr.org  
Message-ID: <199510201550.LAA10908@alpha.wcoil.com>  
Rendered body type: text/plain

>I put up a WIDE digi (TheNet node) yesterday but instead of showing green  
(as it  
>should) it shows white.  
>  
>The BeaconText is:  
>!3328.41N/10147.35WxPHG9560/WIDE/LBB01/Lubbock TX  
>  
>Is the problem with 7.3d or with me?  
>  
>Larry  
>

Soory for sending this to the SIG instead of just personally. (have to learn  
the quirks of this new mailer program) but to asnwer your question, you have  
to read the text file called Digi.txt. YOu have the string wrong. Instead of  
just "WIDE" after the PHG section, it has to be "WIDE-RELAY" Then put at least  
an extra space or two before any of your comments.

////////////////////////////////////  
//// Bob Hartman, N8MWZ                      Grid Square EN70                      ///

```
//// Lima, Ohio                40 45N, 084 06W        ////
//// <n8mwz@amsat.org>          Member ARRL, AMSAT, &    ////
//// VHF, UHF, OSCAR 13 {soon}  TAWG #OH89             ////
////////////////////////////////////
```

---

### 367. Re: □APRSSIG:3941! Finally made it

From: bob.crockett@Harris.COM (BCROCKET)  
Date: Fri, 20 Oct 1995 11:26:46 -0400  
To: aprssig@tapr.org, "William Nolle" <aprssig@tapr.org>  
Message-ID: <087ceae@maila.harris.com>  
Rendered body type: text/plain

That address was close... but you appear to have "/" when  
you should "." in one place! I think this is what you wanted:

<http://www.tapr.org/tapr/html/sigs.html#listserv>

Bob  
\_\_\_\_\_  
Reply Separator  
Subject: □APRSSIG:3941! Finally made it  
Author: "William Nolle" <aprssig@tapr.org> at smtp  
Date: 10/20/1995 1:52 AM

I think i finally made it back on the sig (I hope). Well at least i received  
conformation from tapr.org. There's a great way to do this i just found out by  
logging into the following address and page.

<http://www.tapr.org/html/sigs/html#listserv/>

It will show a menu for all the tapr sigs and info you want, all you do is fill  
i n  
your name and e-mail address, check it out works great. And thanks to those  
that attempted to help me!.

Bill KE4EER

---

### 368. Re: [APRSSIG:3947] Re: Finally made it

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Fri, 20 Oct 1995 11:51:09 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510201651.LAA25081@solar.cs.tamu.edu>  
Rendered body type: text/plain

Bob Wilkins n6fri sez:

>

> We can not reply back to you due to the malformed address. You might try  
> a different mail program if all else fails...

In fact, we can... but one must interpret the bang! addressing... something  
that was supposed to have died 2 or 3 years ago. When your see  
intercomm.net!wnolle@tapr.org You should think wnolle@intercomm.net.

And yes, Bill, it is still broken. I'd call the tech support at intercomm and  
ask for some help reconfiguring. It could very well be in their sendmail  
installation, rather than in your mailer config, too.

73, gerry

--

Gerry Creager N5JXS                   \* SAREX Co-Investigator  
gerry@cs.tamu.edu                   \* A little radio that lets kids talk  
                                     \* to astronauts, and smile

\*\*\*\*\*

---

### 369. Re: [APRSSIG:3927] RE: What does APRS stand for?

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
Date: Fri, 20 Oct 95 13:50:04 EDT  
To: aprssig@tapr.org  
Cc: rwf@mindspring.com  
Message-ID: <CMM-RU.1.4.814211404.ksproul@hardees.rutgers.edu>  
Rendered body type: text/plain

> Sproul Bros.: It is difficult to use a mouse while driving. Are you going  
> to support the most used DOS keyboard commands in your MacWindows version?  
> Those of us that drive tend to reach over and poke individual keys like O Q  
> <Enter> during available attention cycles. One of the nice things about the  
> DOS version is that we can use simple non-shifted, non-Alt'ed and non-ctrl'd  
> key combinations. If we had to use strange combinations of keys to make  
> windows drop down and then select, it would really divert out attentions!

We WILL support Command-Keys and Function Keys.. But they will match the WINDOSE standards.... We will make sure the 'common' things needed while driving are available on Function Keys.. You can be sure that not all of this will be done at the beta-release at Christmas.. As we get closer we will investigate to make sure we know what needs to be done on Function Keys for things like this... Your 'EASY WHILE DRIVING' request is very valid...

> When a CD-ROM is not present and someone selects a callbook lookup- it  
> seems that there is no way out of the resulting menu without rebooting. The  
> menu is the one that asks what type of CD it is: Buckmaster, etc. And Why  
> is SAM not listed? Can the Mac not read the SAM CD?

If the CD-ROM is not present, then it tells you that..  
CALL NOT FOUND OR DATA BASES NOT PRESENT...

I went back and tried this on SEVERAL different versions, including the latest and got the same message in all cases.. It never hung once..  
Give me more details and I will find out what is going on..

SAMS: All of the manufactures of CD-ROMS !!!EXCEPT!!! SAMS where very cooperative when I wanted to do this.. The SAMS people said they would supply a DOS only API (Application Program Interface) library, but that is all they would do.. They weren't even interested in discussing it any further. There data is in proprietary format, and can ONLY be accessed via their API.

Another comment about CD-ROMS.. The NEW Buckmaster (November release) is ABSOLUTELY FANTASTIC!!!! They have GREAT info in the data base..  
Better than anybody else for this type of application!!!

> And I also notice that when "normal" APRS Maps are imported into MacAPRS,  
> the labels all show up at all ranges. This really clutters the map. Is this  
> normal, or something we are doing wrong?

This has not been a problem in the past, because most people using MacAPRS are using not the PC maps.. If it becomes a problem, it will get changed..

> When we zoom into a map, it seems that the options are limited. Something  
> like 2x or 4x or the like. Is that it? I could not zoom nearly down to the  
> level that I could in "real" APRS.

Try using OPTION-Click-Drag.. This allows you to zoom into any size, any area you want....

> And how do you stop a message that never gets acked?

Messages get sent once a minute for 5 minutes, then once an hour for 5 hours then they stop sending.. If you want to 'ABORT' it, select it and hit DELETE.

If you want to RE-TRANSMIT a message, hit CLEAR, it will reset the counters to zero..  
Also, R does a REPLY to that message.

|                                                                                       |                                    |
|---------------------------------------------------------------------------------------|------------------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z                    |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu            |
| Rutgers University Computing Services                                                 | 908 445-3695 Work 908 445-2968 Fax |
| <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home                  |

---

### 370. Northern Illinois Users Group?

From: dave.morrison@aquila.com (DAVE MORRISON)  
Date: Fri, 20 Oct 95 12:51:00 -0600  
To: aprssig@tapr.org  
Message-ID: <8B36303.000103158B.uuout@aquila.com>  
Rendered body type: text/plain

I understand there is a Northern Illinois APRS Network group. Does anyone know how to contact it?

Thanks.

dave.morrison@aquila.com

**371. UNSUBSCRIBE REQUEST**

From: bob.crockett@Harris.COM (BCROCKET)  
 Date: Fri, 20 Oct 1995 14:12:38 -0400  
 To: aprssig@tapr.org  
 Message-ID: <087f8df0@maila.harris.com>  
 Rendered body type: text/plain

I have been attempting to get unsubscribed from this list for some time. I have sent E-Mail to various people asking for their help which have gone unanswered. I'm sorry for taking up this listserv's bandwidth but I am running out of ideas.

Would some kind individual, please take me off of the aprssig list!

Thanks  
 Bob

```
=====
Bob Crockett           || Internet: bcrocket@harris.com
Harris Corporation     ||
Broadcast Division    || Amateur Radio: N9KUT
P.O. Box 4290          || Phone: 217-221-7717
Quincy, Illinois 62305-4290 || Fax: 217-224-8516
=====
```

**372. Re: [APRSSIG:3959] Northern Illinois Users Group?**

From: Keith Sproul <ksproul@hardees.rutgers.edu>  
 Date: Fri, 20 Oct 95 16:11:36 EDT  
 To: aprssig@tapr.org  
 Message-ID: <CMM-RU.1.4.814219896.ksproul@hardees.rutgers.edu>  
 Rendered body type: text/plain

Northern IL.

David Chesser, KA9NHL 815 758-6205  
 Ed Rogers N9LCI

N9QGS

and a few others...

Keith

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Keith Sproul                          | Ham Radio: WU2Z                    |
| Student Housing Network Coordinator   | ksproul@noc.rutgers.edu            |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/   | 908 821-4828 Home                  |

**373. Re: [APRSSIG:3960] UNSUBSCRIBE REQUEST**

From: "Michael Turner" <mturner@fox.nstn.ca>  
 Date: Fri, 20 Oct 1995 16:47:43 -0400  
 To: aprssig@tapr.org  
 Message-ID: <199510202048.RAA18821@Fox.NSTN.Ca>  
 Rendered body type: text/plain

Bob Crocket.

I had much difficulty too in getting unsubscribed once. I suggest you address your request to: listproc@tapr.org and in the body of the message type: unsubscribe aprssig Hope that this works for you. 73 VE3PRW

**374. Garin 45 Cable?**

From: <JCOSTER@WVNM.VVNET.EDU>  
 Date: Fri, 20 Oct 1995 17:41:00 -0400 (EDT)  
 To: <aprssig@TAPR.ORG>  
 Message-ID: <199510202141.QAA22715@sys1.tapr.org>  
 Rendered body type: text/plain

Has anyone found the round male plug that the Garmin 45 needs to take its data out and to put power in? There must be a cheaper way than the Garmin cable?! (Or maybe not?)  
 de Jack Coster. WF8X. Morgantown, WV.

### 375. APRS PROGRAM

From: Wb2ngz@aol.com  
Date: Fri, 20 Oct 1995 18:10:27 -0400  
To: aprssig@tapr.org  
Message-ID: <951020181026\_49884227@mail04.mail.aol.com>  
Rendered body type: text/plain

Dear Bob:

I have found APRS to be a very interesting and enjoyable program...My registration is in the mail along with a disk containing an APRS map making program created and designed by myself, WD8JTJ and WD8JTK. The disk also includes a copy of the Volusia County, Florida map (VOLUSIA.MAP) made by myself and WD8JTJ. I hope you find them of interest.

If the coastline of Florida in the USAseast.MAP were drawn with the same accuracy as the Florida coastline in the USA.MAP people would stop asking me why my house is in the Atlantic ocean.

73...Bob, WB2NGZ

---

### 376. Re: [APRSSIG:3963] Garin 45 Cable?

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>  
Date: Fri, 20 Oct 1995 18:26:47 -0400  
To: aprssig@tapr.org  
Message-ID: <30882227.300D@wingsbbs.com>  
Rendered body type: text/plain

JCOSTER@WVNM.WVNET.EDU wrote:

>

> Has anyone found the round male plug that the Garmin 45 needs to take its  
> data out and to put power in? There must be a cheaper way than the Garmin  
> cable?! (Or maybe not?)  
> de Jack Coster. WF8X. Morgantown, WV.

IF anybody has an idea let me know.. I am looking for a Plug.. I broke mine.

I REALLY don't wanna fork out another 30 Bucks..

Sam Nabkey

---

### 377. Re: □APRSSIG:3962! Re: UNSUBSCRIBE REQUEST

From: bob.crockett@Harris.COM (BCROCKET)  
Date: Fri, 20 Oct 1995 16:57:26 -0400  
To: aprssig@tapr.org, "Michael Turner" <aprssig@tapr.org>  
Message-ID: <08820bd0@maila.harris.com>  
Rendered body type: text/plain

I'll give it a try! Thanks for the suggestion.

Bob

Reply Separator

Subject: □APRSSIG:3962! Re: UNSUBSCRIBE REQUEST  
Author: "Michael Turner" <aprssig@tapr.org> at smtp  
Date: 10/20/1995 5:00 PM

Bob Crocket.

I had much difficulty too in getting unsubscribed once. I suggest you address your request to: listproc@tapr.org and in the body of the message type: unsubscribe aprssig Hope that this works for you. 73 VE3PRW

---

### 378. Re: [APRSSIG:3948] Green WIDE problem with 7.3d?

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Fri, 20 Oct 1995 18:32:53 +0100 (EDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951020183100.761A-100000@pinegov>  
Rendered body type: text/plain

On Fri, 20 Oct 1995, Larry Griffin wrote:

> I put up a WIDE digi (TheNet node) yesterday but instead of showing green (as it  
> should) it shows white.  
>  
> The BeaconText is:  
> !3328.41N/10147.35WxPHG9560/WIDE/LBB01/Lubbock TX  
>

> Is the problem with 7.3d or with me?  
>  
> Larry  
>  
Larry, the answer is NEITHER. Only Wide area digi's with the ALIAS of  
WIDE/RELAY will turn green..this is generally only available in certain  
tnc's like the KPC-3. Wides with an alias of only WIDE, turn white, as  
yours did.

73 de Kevin KD4UYR.

>

---

### 379. Test

From: intercomm.net!wnolle (William Nolle)  
Date: Fri, 20 Oct 1995 18:33:39  
To: tapr.org!aprssig  
Message-ID: <199510202333.SAA26094@sys1.tapr.org>  
Rendered body type: text/plain

Someone Please REPLY to this message to see if he fixed the problem  
with my address "User Unkown"

Bill KE4EER

---

### 380. Re: [APRSSIG:3968] Test

From: Don Froula <froula@cig.mot.com>  
Date: Fri, 20 Oct 1995 18:54:32 -0500  
To: aprssig@tapr.org  
Message-ID: <199510210000.UAA08923@po\_box.cig.mot.com>  
Rendered body type: text/plain

OK...

> Someone Please REPLY to this message to see if he fixed the problem  
> with my address "User Unkown"

>

> Bill KE4EER

>

>

>

---

### 381. Re: [APRSSIG:3963] Garin 45 Cable?

From: rwf <rwf@mindspring.com>  
Date: Fri, 20 Oct 1995 19:56:54 -0400  
To: aprssig@tapr.org  
Message-ID: <199510202356.TAA03430@dylan.mindspring.com>  
Rendered body type: text/plain

At 04:42 PM 10/20/95 -0500, you wrote:

>Has anyone found the round male plug that the Garmin 45 needs to take its  
>data out and to put power in? There must be a cheaper way than the Garmin  
>cable?! (Or maybe not?)

>de Jack Coster. WF8X. Morgantown, WV.

>

>

Almost.

An 8 or 7 pin DIN socket will fit it.

But better drill out or fill all other holes, lest ye accidentally plug it  
in wrong and fry something

(the key does not function on the din socket)

But that is what I use on my 45

Ralph

---

### 382. Re: [APRSSIG:3968] Test

From: W2H0B@aol.com  
Date: Fri, 20 Oct 1995 20:14:35 -0400  
To: aprssig@tapr.org  
Message-ID: <951020201432\_49982713@mail02.mail.aol.com>  
Rendered body type: text/plain

Looks good Bill... seems to be working.

73 de Boyd W2H0B@aol.com

---

### 383. Re: [APRSSIG:3968] Test

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Fri, 20 Oct 1995 19:41:29 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <199510210041.TAA03080@solar.cs.tamu.edu>  
Rendered body type: text/plain

For things not within your control, the Listproc scans the addresses so that your request doesn't work. Send me private e-mail and I'll check it for you.

73, gerry

--

Gerry Creager N5JXS                   \* SAREX Co-Investigator  
gerry@cs.tamu.edu                   \* A little radio that lets kids talk  
                                     \* to astronauts, and smile

\*\*\*\*\*

---

### 384. Re: [APRSSIG:3907] DELORME MAPS FOR APRSM

From: RWFrye@world.com  
Date: Fri, 20 Oct 1995 19:45:40 -0700  
To: aprssig@tapr.org  
Message-ID: <951020194538\_16942179@hp1.online.apple.com>  
Rendered body type: text/plain

I would like to know if the Delorme maps will work with MacAPRS.  
That would be a blast, but I didn't know the Delorme maps had latitude and longitude references attached to them.

---

### 385. Re: [APRSSIG:3968] Test

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>  
Date: Fri, 20 Oct 1995 23:37:12 -0400  
To: aprssig@tapr.org  
Message-ID: <30886AE8.697F@wingsbbs.com>  
Rendered body type: text/plain

William Nolle wrote:

>

> Someone Please REPLY to this message to see if he fixed the problem

> with my address "User Unknown"

>

> Bill KE4EER

Here is PROBABLY your Millionth reply!

Hope you solved it!

Sam Nabkey

---

### 386. Re: [APRSSIG:3963] Garin 45 Cable?

From: jerdptro@xnet.com (Jerry )  
Date: Fri, 21 Oct 1994 02:18:11 -0500  
To: aprssig@tapr.org  
Message-ID: <199510210713.CAA20729@flood.xnet.com>  
Rendered body type: text/plain

I have found an easy and effective substitute for Garmin cable. I made my own using pins from a tube socket. Merely remove pins from a tube socket and attach wires and heat shrink tubing. The pins from a tube socket (such as a 12AX7) fit the garmin perfectly. Get an old socket from a hamfest and save a few bucks

Jerry  
N9VHW  
Northern IL

>Has anyone found the round male plug that the Garmin 45 needs to take its  
>data out and to put power in? There must be a cheaper way than the Garmin  
>cable?! (Or maybe not?)  
>de Jack Coster. WF8X. Morgantown, WV.  
>

---

### 387. Unnecessary traffic

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)  
Date: Sat, 21 Oct 1995 10:23:26 +0000  
To: aprssig@tapr.org  
Message-ID: <9510211416.AA05706@oriole.ustc.vlsi.COM>  
Rendered body type: text/plain



50% of the lat batch of msgs on this sig were Tests (or related) or  
subscribe realated not APRS related. I would suggest responses to test and  
unsubscribe be directed to individual's address not entire sig.

Bob Baltz \*  
Chesapeake Region Sales \*  
Ph:(410) 987- 8777 \*  
Fax: (410) 987-4489 \*  
E-mail bob.baltz@ustc.vlsi.com \*

---

### 388. Re: [APRSSIG:3967] Re: Green WIDE problem with 7.3d?

From: Barry Leonard <jleonard@tbcnet.com>  
Date: Sat, 21 Oct 1995 10:18:12 -0500 (CDT)  
To: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951021100614.23230B-100000@tbc2.tbcnet.com>  
Rendered body type: text/plain

On Fri, 20 Oct 1995, Kevin Heyboer wrote:

> Larry, the answer is NEITHER. Only Wide area digi's with the ALIAS of  
> WIDE/RELAY will turn green..this is generally only available in certain  
> tnc's like the KPC-3. Wides with an alias of only WIDE, turn white, as  
> yours did.  
>  
> 73 de Kevin KD4UYR.  
>

OK, then, if that's the case, I hope somebody will explain to me why the  
KPC-3 I just put up in North Central IL as a WIDE/RELAY shows green, when I  
just found out that  
it has the parameter NUMNODES=0, which is the default mode. The Beacon does  
not show any MYNode.

I suspect that it's the "WIDE-RELAY" in the POS text that makes it show  
green, regardless of what's set in the tnc. I will fix that problem  
within the next few days.

Barry Leonard  
N9VJQ

---

### 389. Re: [APRSSIG:3973] Re: DELORME MAPS FOR APRSM

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Sat, 21 Oct 1995 14:01:56 -0500  
To: aprssig@tapr.org  
Cc: RWFrye@eworld.com  
Message-ID: <v02130500acaef154f22c@[199.1.11.131]>  
Rendered body type: text/plain

>I would like to know if the Delorme maps will work with MacAPRS.  
>That would be a blast, but I didn't know the Delorme maps had latitude and  
>longitude references attached to them.

If you save the Delorme map screen image as a PICT file you can use a  
feature of the latest version of MacAPRS to make an overlay.

Version 3.0 of Delorme maps for the PC does have a limited lon/lat references.  
Also this is the first upgrade I know of that you must send in the old  
CD-ROM.

----- From the 2.0.0 text doc file -----  
MacAPRS now supports BIT-MAP maps, i.e.

- \* a scanned in nautical chart
- \* a screen-dump from Delorme
- \* a fancy map TIFF file from the USGS
- \* Any map you want to scan in on your scanner.

In the near future, I will put up some test-maps on ftp.tapr.org that have the  
correct EXTRA data that makes this work.

MacAPRS needs a special RESOURCE attached to a normal PICT file to make all of  
this magic work.

Steve Dimse (K04HD) from Florida is working on a simple utility to add the  
coordinates to the files. In the near future, MacAPRS will have this capability  
too.

-----

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

### 390. Marine CoRps Marathonm

From: Bob Bruninga <bruninga@nadn.navy.mil>  
 Date: Sat, 21 Oct 1995 23:19:06 -0400 (EDT)  
 To: aprssig@tapr.org  
 Message-ID: <Pine.SUN.3.91.951021231650.18116B-100000@greatlakes>  
 Rendered body type: text/plain

If all goes well, we will be uplinking the marathon to HF. The lead runner and tail end charlie will be gated VHF to HF. All the other vehicles will be kept on VHF... I believe the gun goes off at 0900. Tht is sunday the 22nd.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

### 391. Re: [APRSSIG:3977] Re: Green WIDE problem with 7.3d?

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>  
 Date: Sun, 22 Oct 1995 00:04:19 -0400  
 To: aprssig@tapr.org  
 Message-ID: <3089C2C3.4B4D@wingsbbs.com>  
 Rendered body type: text/plain

Barry Leonard wrote:

> I suspect that it's the "WIDE-RELAY" in the POS text that makes it show  
 > green, regardless of what's set in the tnc. I will fix that problem  
 > within the next few days.  
 >  
 > Barry Leonard  
 > N9VJQ

BINGO!

Sam - WJ8T.

### 392. Re: [APRSSIG:3930] GPS HELP

From: Tom Tessier <tessier@cc.umanitoba.ca>  
 Date: Sun, 22 Oct 1995 00:23:22 -0500 (CDT)  
 To: aprssig@tapr.org  
 Message-ID: <199510220523.AAA28219@hadar.cc.umanitoba.ca>  
 Rendered body type: text/plain

Here is the connector configuration of the GPS board:

|                                 |   |   |
|---------------------------------|---|---|
| GPS board (Trimble SVeeSix-CM3) |   |   |
|                                 |   |   |
| connector location->            | 8 | 7 |
|                                 | 6 | 5 |
|                                 | 4 | 3 |
|                                 | 2 | 1 |

Follow the wires from the connector to find out what they do. Use an ohmmeter or something to check which wires are on which part of the female part of the connector. Unfortunately, this will remove the battery backup of the almanac, but the GPS will replace this info with a cold start the first time you turn it on. It will take 10 or 15 minutes to acquire sats, but once it does, it will update its almanac.

Pin Functions:

- 1 No connection
- 2 VCC (+5 Volts DC)
- 3 TXD1 (TTL level serial out - this is where the data originates)
- 4 Battery backup for almanac/RAM (+3 to +5 Volts DC)
- 5 RXD1 (TTL level Serial in) not used on these
- 6 One Pulse-per-Second output (TTL Level)(works, but not used by TNC)
- 7 RXD2 (TTL level serial in) (not used)
- 8 DC ground

email me if you have any questions.  
Tom Tessier  
VE4TRT  
tessier@ee.umanitoba.ca

gustavoc@pinos.com writes:

>  
>  
>  
> Hello!  
>  
> I planned use the gps receiver that I bought with my tiny 2 last year in a  
> balloon launch. The gps is a Trimble SVEE6CM, (NMEA 0183 ascii format).  
> It has four wire, black, blue, red and orange. Can somebody tell me what is  
> each wire, and the out level, (RS232, TTL, etc). My plan is to send the data  
> in ascii format.  
>  
> Thanks for your help.  
>  
> Gustavo, LW2DTZ.  
>  
>  
>

---

### 393. Re: [APRSSIG:3928] TAPR File Cleanup

From: rkramer@cdx.net (Ronald Kramer)  
Date: Sun, 22 Oct 1995 05:23:24 GMT  
To: aprssig@tapr.org  
Message-ID: <199510220523.AAA12251@sys1.tapr.org>  
Rendered body type: text/plain

On Thu, 19 Oct 1995 19:42:12 -0500, you wrote:

>  
>I have had a few people ask if I could clean up the directory on the TAPR  
>APRS SIG.  
>  
>Tonight I finally got a chance to do this..  
>  
>I have put all of the PC map files into a folder called PCMaps  
>The Mac maps have been in a folder called MacMaps for awhile..  
>  
>I created a folder for HISTORY files called Hist  
>  
>And I created a folder called GARMIN for the garmin files..  
>  
>If you are going to upload anything to the FTP site, PLEASE put it in the  
>correct place..  
>  
That's kinda hard to do, as the only directory it allow's us to upload  
in is the the upload directory, the pcmaps directroy said that  
permission denied when I tried to upload ONT1022.ZIP  
which is the latest maps for Ontario, taken from the APRS archives  
at VE3INF bbs and VE3SNP bbs...  
Please remove the earlier file I beleive it was ONT1018.zip  
Thanks

>Keith Sproul  
>  
>Keith Sproul  
>Student Housing Network Coordinator  
>Rutgers University Computing Services  
>http://www-ns.rutgers.edu/~ksproul/  
Ham Radio: WU2Z  
ksproul@noc.rutgers.edu  
908 445-3695 Work 908 445-2968 Fax  
908 821-4828 Home

Regards, Ron ... 73 de Ron  
Internet: rkramer@cdx.net (Ron Kramer)  
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

---

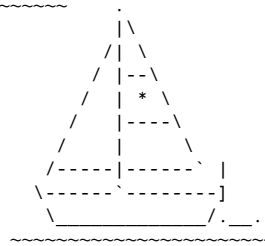
### 394. Re: [APRSSIG:3970] Re: Garin 45 Cable?

From: paul@paccomm.com (Paul Evans, W4/G4BKI)  
Date: Mon, 23 Oct 95 08:49:45 UTC  
To: aprssig@tapr.org  
Message-ID: <8401@paccomm.com>  
Rendered body type: text/plain

Yes, and if you can find a 4 pin 90 degree DIN that fits too.....

~~~~~  
Paul Evans, W4/G4BKI paul@paccomm.com
+(813) 874-2980 Fax:+(813) 872-8696
PacComm Packet Radio Systems
4413 N. Hesperides St., Tampa, FL 33614-7618
Views are personal, not those of employer

Don't surf the net, SAIL it!
Captain of S/V "Spindrift", Dunedin, FL.
Catalina 36: Tall rig (58'), Winged Keel (4' 2")
Full batten main, Boston Whaler dinghy.



395. APRS Symbols

From: Tom Kinahan <kinahan@mail1.bytex.network.com>
Date: Mon, 23 Oct 1995 09:42:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951023093350.5295E-100000@ws007-fddi>
Rendered body type: text/plain

I finally had an opportunity to check my mobile tracker symbol on an APRS screen.

It is indeed true that the symbol characters of mobile trackers need to be enclosed in curly brackets. I did discover that it needs the first posit after receiving the beacon with {j} to change the displayed symbol.

Thanks for everyones help!

- Tom K.

Tom Kinahan
Bytex / Network Systems Corp.
4 Technology Drive
Westborough, Ma. 01581

Phone: 508-366-0040 x360
Fax: 508-366-0244
Email: kinahan@bytex.network.com
Amateur Radio: N1CPE

396. Re: Error Condition Re: Invalid request

From: bob.crockett@Harris.COM (BCROCKET)
Date: Mon, 23 Oct 1995 09:21:43 -0400
To: aprssig@tapr.org
Message-ID: <08ba5fe0@maila.harris.com>
Rendered body type: text/plain

I am attempting to get unsubscribed from this list and have attempted every command I know through the listserv with no luck.

I have reported the problem to tapr-mail@tapr.org but nothing continues to happen.

Would someone who has the proper authority please remove me from this mail list!

Thanks

=====
Bob Crockett || Internet: bcrocket@harris.com
Harris Corporation ||
Broadcast Division || Amateur Radio: N9KUT
P.O. Box 4290 || Phone: 217-221-7717
Quincy, Illinois 62305-4290 || Fax: 217-224-8516
=====

Forward Header

Subject: Error Condition Re: Invalid request
Author: listproc@tapr.org at smtp
Date: 10/20/1995 11:24 AM

>UNSUBSCRIBE APRSSIG

BCROCKET@HARRIS.COM: You are not subscribed to aprssig@tapr.org

In addition, the system found the following address(es) that resemble yours. If one of these is you, please resend your message from that one, or use the 'set <list> address' request to change the address you are subscribed with:

HARRIS.BCROCKET@IC1D.HARRIS.COM

Report any problems to 'tapr-mail@tapr.org'.
For a list of the available requests send a message to listproc@tapr.org
with a body consisting of nothing but the word HELP

PS: Any subsequent requests that you might have submitted have been ignored.

397. girdsquares

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Mon, 23 Oct 1995 13:30:56 EST
To: <aprssig@TAPR.ORG>
Message-ID: <23OCT95.14597094.0068.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

this is the first posting i have made so excuse my ignorance
but i had a thought on the grid square mode of aprs
if an additional charater was used the position of a station
could be made much more accuratly and there by making it more
useful. An example of a narrow grid square would be em83d ie
a b c d e f
g h i j k l
m n o p q r
s t u v w x
this would make the use of the posible up coming aprsat much
more useful because lets face it a grid square is a big place
i dont know the figures on exactly how many more bytes this would
require in each packet but i thought somebody with some more knowlege
might know if it is possible or even nessesary.

Thanks Lynn Holcomb
N4YCI In Athens Ga

398. Re: [APRSSIG:3986] girdsquares

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Oct 1995 17:19:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951023171803.2748F-100000@greatlakes>
Rendered body type: text/plain

On Mon, 23 Oct 1995, HOLCOMB, GREGORY FRA wrote:

> but i had a thought on the grid square mode of aprs
> if an additional charater was used the position of a station
> could be made much more accuratly and there by making it more
> useful.

APRS has a built in higher accuracy mode that takes 3 mor characters and
includes course and speed. But until we start getting the 6 digit mode
used, I wasnt going to cloud up the works....

399. 100K map maker

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Oct 1995 17:32:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951023172507.2748I-100000@greatlakes>
Rendered body type: text/plain

I got a fax today from Jack Cavanaugh and he found the difference
between his 100K map generator program and APRS that was causing it to
generate X axis errors at different scales. He will be mailing me a
copy in a day or so after he cleans up the docs. WHEN I get it, I will
post it here so that everyone can try their hand at generating 100K maps
in fewer steps than are now required...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

400. U-II/U-2000 who has best price?

From: mark@tetherless.com (Mark Oppenheim)
Date: Mon, 23 Oct 1995 16:13:07 -0700
To: aprssig@tapr.org
Message-ID: <199510232313.QAA00660@gorgor.pa.tetherless.com>
Rendered body type: text/plain

What are the vendors that have traditionally sold the U-II WX station at the
best prices?

I'd like to get a U-2000 (Bob- Will this work with current APRS versions, without of course, reporting the "new" data that the U-2K supports?) sometime soon - hopefully before I get snow on the roof.

Mark

401. Re: [APRSSIG:3989] U-II/U-2000 who has best price?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Oct 1995 19:51:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951023195021.4130A-100000@greatlakes>
Rendered body type: text/plain

On Mon, 23 Oct 1995, Mark Oppenheim wrote:

> I'd like to get a U-2000 (Bob- Will this work with current APRS versions,
> without of course, reporting the "new" data that the U-2K supports?)
> sometime soon - hopefully before I get snow on the roof.

ITS DONE AND IT WORKS. May be releasing in a day or so. (will be APRS74)

402. Marine Corps Marathon 95

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Oct 1995 19:59:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951023195300.4130B-100000@greatlakes>
Rendered body type: text/plain

APRS at the Marine Corps Marathon 1995

1995: This year we had fewer GPS trackers and relied almost entirely on the Dead Reckoning features in APRSdr.EXE. This program can dead reckon objects along the marathon route without operator intervention except when needed to correct for long term drift between the runner and the Dead Reckoned object. The LEAD runner goes about 9 Knots and the Tail goes about 4 Knots. Also, these tracks DO follow the exact course, where GPS vehicles often do NOT reflect the real path of the runner (where vehicles are not allowed). We also DR'ed the lead Handicapped, Woman, Special-Olympics and PACK. See DR.txt.

MASTER-SLAVE. This year we also operated three 486 color laptops and two larger VGA displays all connected to the single APRS TNC. Only one laptop was operated by the APRS operator as MASTER, and all other laptops were placed in SLAVE mode in front of the other voice net controllers, so they could independently zoom in to areas of their immediate interest. If we had had more VGA monitors, each laptop could have also driven an extra large display. The small size of the laptops fit unobtrusively at the operating positions. See OPS.txt.

IMPRESSIONS: This year was dissappointing compared to last. The 70 + HAMS who have always been the ONLY dispatch authority for the last 18 years and who had always done an OUTSTANDING job, were surprised when they started directing ambulances and found they were already moving under other authority. Apparently, with the new 800 MHz radios out there, the variety of ambulance companies could ALL communicate with the County dispatcher.. In the past, each ambulance company had their own radios and could NOT communicate except via a HAM rider. This year not one general, doctor, or person in distress ever popped into our tent to get the latest (a CONSTANT occurrence in the past). Even the Marine Corps had cute little commercial HT's instead of the hoot-n-holler field phones they used up to last year!

Overnight the HAMS slid from HEROES to a footnote... The mood in Net control was gloomy.

What this tells me, is that TECHNOLOGY MOVES ON... HAMS have always prided themselves on their emergency response, primarily because of their frequency agility. But with programmable radios EVERYWHERE, the HAMS no longer have an edge. We have had programmable HT's for 15 years... Now that everyone else has them, what NEW can HAM radio bring to an event?

How about APRS?

Good question. But how many years will it be until most HAMS that get out there at 4 AM will trade in their commodore 64's? We had only 5 GPS trackers show up this year vice 11 last year, and fewer than a handful of APRS ops. With my 6 screens, it still looked impressive in Net Control, and the one screen we placed in the Marine Corps tent had a Lieutenant

GLUED to it the whole event as if it were a crystal ball... but it was a facade. I was the only operator that had ever touched APRS. (The other few APRS ops were out on the road). We just haven't gotten the attention of the EMERGENCY RESPONSE HAMS in the area.

I do not solicit APRS for these local groups since that would appear to be a conflict of interest for me, but in those areas where at least ONE person on the INSIDE of the EMERGENCY COMMS groups has gotten turned-on to APRS, there seems to be a lot more success... But I still have not seen any APRS articles in the major ARES publications...

Get those operators TRAINED. With a multiple SCREEN setup, you only need ONE good APRS operator at the MASTER, but everyone in the emergency response team, should be familiar with the basic CURSOR, ZOOM and MAP display. The P and L list also come in handy... Good luck guys!

DE WB4APR in Annapolis MD. (Not anywhere near GreatLakes)

403. RE: Gridsquares

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 23 Oct 95 23:41:53 EDT
To: aprssig@tapr.org, LYNN4YCI@music.cc.uga.edu
Message-ID: <CMM-RU.1.4.814506113.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The GRID-SQUARE system as established by international groups includes not only the 4-digit Grid-square used in APRS, but ALSO a 6-digit grid-square in the format of

FN20AL (alpha, alpha, digit, digit, alpha, alpha).

And at one time, there was discussion about actually extending it to 8-digit. There is a booklet that explains all of this including software on how to create grid-squares available from the ARRL.

APRS (Or at least MacAPRS) already supports 6-digit grid squares...

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

404. USCGAUX/IL CAP update

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Tue, 24 Oct 1995 09:27:37 -0500
To: aprssig@tapr.org
Message-ID: <199510241419.JAA16892@flowbee.interaccess.com>
Rendered body type: text/plain

Hello all,

After reading Bob's note on the USMC run I thought I'd spread some good news about using APRS in Public Service/Emerg Response situations and who is looking at it as a tool.

On 14-15 Oct myself and Dan N9XHP attended the United States Coast Guard Aux- Ninth Western District Fall Conf. we convinced Dave KA9NHL to tag along as an "observer".

We conned the hotel staff into setting up an extra display table outside the meeting/seminar rooms, hooked up both a MAC and DOS system (the MAC was live on air via 100' of RG8 and a Mag mount on an ashtray) and off we went.

In a word we were swamped, we handed out over 70 copies of APRS program disks, gave out every handout we had taken along and talked ourselves out. At one point we had an O6 (full Capt.) from Cleveland home of the Ninth District with us as we demo'd the system. He watched as we showed him what APRS can do in terms of DFing, Uplinking and Tracking objects. He commented to us that at USCG District level they are using a system that while much more capable still looks the same. It cost \$300K for the software alone. We then told him what we have tied up in hardware and software and explained we could buy a couple of nice boats with what's left over. The Capt was impressed enough to offer his offices assist in :

1) Providing CDROM Marine Charts for mapmaking efforts (MAC and WINDOZE here it is, and maybe the new 100k format DOS stuff to)

2) Work toward getting approval for a specific VHF govt freq. to be used in testing system. (Bob, maybe this is a start toward getting channel 70 DSC limited approval for APRS style traffic- APRS Lite???)

I should also mention that He knew of the incident out east using APRS to DF a flare on Lake Erie, the one where the DF position was off by 100 Meters. As his shop is SAR stuff the word is spreading.

Stay Tuned

CAP

Sunday 22 Oct Dan N9XHP, Karen (XYL) N9RER and myself served as Observers for an Illinois CAP demo on APRS. The unit put up two Aircraft and one ground team with standalone tracking units that their Com Guy Mike (call pending) and I wired up.

Units were KPC-3, Magellin and Garman 50 GPS, and FT411 MARS/CAP HT's.

We tracked all units without trouble, connected and changed settings in KPC3 while on the fly (groan) and in short knocked there socks off. A plus to this mission is that several of the High School aged or younger Cadets are now going after a Ham ticket!!!!

The CAP mission commander told me that so far he has heard only about Illinois and Arizona CAP using the software, if anyone wants to contact a local USCGAUX or CAP unit to demo or offer assistance (or join) if you get back to me Ill find a contact for you.

Last Stuff

I'll post the CAP track history file at tapr as CAPMSN22.hst for ur DL. If in area (No. Ill) the NIAN users group meets this Sat at 10AM, message me at edwardwr@interaccess.com for details.

73
CUL
Ed N9LCI

"Ed's two rules of sailing"

"Water stays outside the boat"
"You stay out of water"

405. Re: JNOS + G.P.S.

From: dwetzel@acs.uswest.com
Date: Tue, 24 Oct 1995 08:46:56 -0500
To: aprssig@tapr.org
Message-ID: <08ce5c10@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

I'm forwarding the following from the nos-bbs list - there's starting to be some APRS type interest in the TCP/IP community.

Doug
KC7CO

On Mon, 16 Oct 1995, Dugal James P. wrote:

> > My question for you is exiting a JNOS version that having the functions

> > to interface with a G.P.S. apparatus...???
> > I think that TNOS has anything abt. this, but I dont sure and in any case I
> > prefer to work with JNOS. It is somebody that have insert the possibility
> > to interface JNOS with G.P.S. ...???

GPS support over IP has been available with TNOS since release 0.99b (January 1993). It allows you to receive data from a local GPS, and send it to a server. The server can receive from any number of remotes via UDP packets.

It would be simple to place this into JNOS and also to make it be able to accept UI frames addressed to special addresses.

Brian A. Lantz http://www.lantz.com brian@lantz.com

```
REAL PORTION of Microsoft Windows code:
while (memory_available) {
    eat_major_portion_of_memory (no_real_reason);
    if (feel_like_it)
        make_user_THINK (this_is_an_OS);
    gates_bank_balance++;
}
```

406. Keying Circuit for HT's

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Tue, 24 Oct 1995 10:00:17 -0500
To: aprssig@tapr.org
Message-ID: <199510241527.KAA17561@thymaster.interaccess.com>
Rendered body type: text/plain

Hello,

I've seen several posts about folks having trouble keying HT's with a TNC.
This is what I'm using and I have yet to find a combo it will not work with
but I know one of you will <grin>.

First pick up a Radio Shack Audio-Iso Amp xformer I dont have the part #
here in front of me but its with the small xformers in a Radio Shack store,
costs about \$4.00 and is the size of a dime.

Its Got 4 small wires coming out of it...

Yellow.....Hook to mike tip
Red.....Hook to PTT
White.....Hook to AFSK out
Black.....Hook to ground

You dont need any resistors or caps in line anywhere.
Works good and lasts a long time...

For you who have Motorola Cards and Tiny 2's here is wire hook ups for stand
a lone trackers..

PTV6 Card		TNC
Blk wire	TX data	DB9 pin 3
Red wire	RX data	DB9 pin 2
Whi wire	Ground	DB9 pin 5
Brn wire	Memory float hook to +9v DC	
Shield	hook to 9v DC grnd	
Grey	12v DC power in to PTV6 card	

if you connect these wires internally a serial cable talks to TNC, add a
null-modem adapter and presto you talk to the GPS.

73
Ed N9LCI

407. Re: [APRSSIG:3993] USCGAUX/IL CAP update

From: Randy Hammock <hammock@tis.telos.com>
Date: Tue, 24 Oct 1995 11:45:13 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.951024111954.12389B-100000@zentropa>
Rendered body type: text/plain

Although I've not used or even seen APRS in operation, I'm slowly working
toward putting together a system. Also, I'm a member of a horseback
riding organization based in Maryland which has a SAR team and have been
talking with them about using APRS in their SAR operations. The TROT
(Trail Riders Of Today) SAR team serves a five state area (MD, VA, PA, DE
and WV) and often has to work with the CAP, State Police and other
emergency agencies. Several of the members have expressed interest in what
I have described to them. I did give them a copy of the reports that were
prepared by the AZ WING CAP. Hopefully in the next few months, I'll be
able to demo a system for them.

My other plan is to reactivate TROT's trail mapping activity and use APRS
to generate trail maps by just going for ride with the equipment on
horseback then printing out the track.

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 24 Oct 1995 13:10:12 +0100 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951024130326.18133A-100000@pinegov>
Rendered body type: text/plain

On Tue, 24 Oct 1995, Larry Keeran wrote:

> Bob, you have noticed the trend I have over the last couple of years with
> ARES and volunteers involved with public service.
>
> It is not what we can do unique anymore, it is our overall knowledge of how
> each group works and how we can work with each agency well that makes us
> (as hams) desirable.
>
> Training, about our new high tech stuff and what others are doing, is
> essential in continuing to serve as a valuable resource communicators for
> emergencies.
>
> -- Larry K9ORP EC for McLean County
>

Larry and Bob, all is not lost: It is true the technical advances have vastly improved communications between agencies and within agencies whom we serve...however, how many police officers, fire fighters, and paramedics do you know who can make an antenna out of a coax cable or a bunch of copper piping?

We have a saying here...when the ship hits the shore, the towers all fall down. Local government here loves their 800 MHz trunking system, but they are smart enough to realize how vulnerable that equipment is to natural disaster. Two county owned amateur radio repeaters now on the air intended strictly for ARES/RACES during disaster ops...complete with generator power and access for antenna replacement.

It used to be our equipment that made us invaluable...more and more its our knowledge and our willingness to serve in an emergency that counts.

PS. The National Weather Service, Red Cross, and Salvation Army, to name a few, still need our communications equipment and skill.

>

411. What Northridge Taught Us!

From: Randy Hammock <hammock@taz.gmd.trw.com>
Date: Tue, 24 Oct 1995 14:31:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.A32.3.91.951024135619.15172A-100000@sdibm12.gmd.trw.com>
Rendered body type: text/plain

(From an article in TAC-ONE, San Diego County RACES newsletter, Spring '94 by Ben Green, WD8CZP, Chief RACES Radio Officer.)

What has the Northridge earthquake taught us that the others haven't? Here is a summary from an article in the San Diego County RACES newsletter right after the event.

We in RACES need to wake up and quit 'playing ham radio' and receive training in multiple disciplines, particularly in other services' radio communications.[1] The RACES job is to provide skilled operators, equipment and, yes, amateur radio to the government. Skilled operators mean you and me, not someone else. If you want to be of service to your community by using skills acquired through amateur and public safety radio, then RACES and ARES are the means to do it.

Both organizations provide a needed service to its users, but both suffer the same problems -- resources and training. If you are not trained in a particular discipline, be it Sheriff's Department radio procedures or Red Cross terminology, then you are part of the problem, not part of the solution. [If] you and/or your organization are seen as part of the problem then you and your organization will never serve the public. Those agencies who constantly serve the public will find another medium to call upon when needed. If you say, 'there is no competition for amateur radio,' then you lack vision and fail to see the total global environment.[2]

On this recent disaster [Northridge 17-JAN-95], a cellular vendor donated the use of around 3,800 cellphones to a variety of organizations who used to depend on Amateur Radio for auxiliary back-up. Yes, I know all about the vulnerabilities of cellular, but, with this one example (believe me, there are more) the point is, the 'big one' hasn't hit. Unless we prove

our worth now -- and train and be trained by the agency we serve now -- when the 'big one' does hit (natural or man made disaster) we won't be able to provide that trained Amateur link.

We need to be activated every time an emergency arises, no matter how small or trivial. For us in the RACES, this means mutual-aid call outs and net activation for every major emergency. By doing this, we become practiced as well as trained. We become seen and recognized by all as equal partners in public safety.

Bulletin 384/385 - for Release 6/26/95

ACS Addresses: 2800 Meadowview Rd., Sacramento, CA. 95832.
Ph: 916-262-1600. FAX 916-262-1677. Landline BBS: 916-262-1657.
W6SIG@WA6NWE.CA or Internet crm@oes.ca.gov or seh@oes.ca.gov.

Footnotes:

[1] "It's time for the Amateurs to stop playing" was heard recently from a County EMS official who said (of their ACS program which includes REACT personnel), "The REACT responders are far more professional and disciplined than are the Amateurs, who waste time and energy on unrelated matters or talk." (Comment: Ouch - that hurts. Sounds like too much shop talk, reminiscing, flying decades old missions, and using "ham-speak"!)

[2] In the year following the earthquake they [REACT] succeeded in materially increasing their 'presence' in San Diego County.[See Bulletins 376 and 377]. This unit uses uniforms to augment appearance and visibility: white round-neck T-Shirt under white shirts with epaulets (short or long sleeve), green pants, black socks, black shoes, black basket weave belt with standard buckle. They have a highly involved unit today.

--

Randy Hammock KC6HUR		Randy.Hammock@Telos.com
Telos Information Systems - EDOS		hammock@taz.gmd.trw.com
7474 Greenway Center Dr. Suite 400		Voice: +1-301-507-5904
Greenbelt, MD 20770		FAX: +1-301-507-5892

412. Re: [APRSSIG:3991] Marine Corps Marathon 95

From: "Hufford, Kent" <khufford@postmaster2.dot.gov>
Date: Tue, 24 Oct 95 15:01:47 EST
To: aprssig@tapr.org
Message-ID: <9509248145.AA814571705@postmaster2.dot.gov>
Rendered body type: text/plain

Interesting reading Bob's Marine Corps Marathon 95 "Hot Wash".

I have been a APRS owner for about 2 years now. I was unable to "volunteer" to help. (I don't have a C-64). But, I was able during the race at times to watch APRS from home, 15 mile south of DC, and hear the two 2meter medical repeaters.

Hearing the medical repeaters, at least to me, it seems that HAMS were invaluable! Med boxes were sent here and there, status of medical support, the musings of "TOP DOC" were worth the price of admission.

The only down side that I heard was once and awhile near the end, it was clear that some hams came with just one ht battery...and it ran out.

I have attended a few of BOB presentations to HAM groups around DC. He has said that we do NOT need to put out so many GPSSs. DOn't need on all vehicles he said.

Watching APRS, listening to the 2m net, and on commercial TV was a trip.

Bob, many of the issues you talked about are issues to hams overall. Is it ok to put your Hot Wash on CompuServe and elsewhere as is?

Kent

KQ4KK

Reply Separator
Subject: [APRSSIG:3991] Marine Corps Marathon 95
Author: aprssig@tapr.org at postmaster2
Date: 10/23/95 8:29 PM

APRS at the Marine Corps Marathon 1995

1995: This year we had fewer GPS trackers and relied almost entirely on the Dead Reckoning features in APRSdr.EXE. This program can dead reckon objects along the marathon route without operator intervention except when needed to correct for long term drift between the runner and the Dead Reckoned object. The LEAD runner goes about 9 Knots and the Tail goes about 4 Knots. Also, these tracks DO follow the exact course, where GPS vehicles often do NOT reflect the real path of the runner (where vehicles are not allowed). We also DR'ed the lead Handicapped, Woman, Special-Olympics and PACK. See DR.txt.

MASTER-SLAVE. This year we also operated three 486 color laptops and two larger VGA displays all connected to the single APRS TNC. Only one laptop was operated by the APRS operator as MASTER, and all other laptops were placed in SLAVE mode in front of the other voice net controllers, so they could independently zoom in to areas of their immediate interest. If we had had more VGA monitors, each laptop could have also driven an extra large display. The small size of the laptops fit unobtrusively at the operating positions. See OPS.txt.

IMPRESSIONS: This year was dissappointing compared to last. The 70 + HAMS who have always been the ONLY dispatch authority for the last 18 years and who had always done an OUTSTANDING job, were surprised when they started directing ambulances and found they were already moving under other authority. Apparently, with the new 800 MHz radios out there, the variety of ambulance companies could ALL communicate with the County dispatcher.. In the past, each ambulance company had their own radios and could NOT communicate except via a HAM rider. This year not one general, doctor, or person in distress ever popped into our tent to get the latest (a CONSTANT occurrence in the past). Even the Marine Corps had cute little commercial HT's instead of the hoot-n-holler field phones they used up to last year!

Overnight the HAMS slid from HEROES to a footnote... The mood in Net control was gloomy.

What this tells me, is that TECHNOLOGY MOVES ON... HAMS have always prided themselves on their emergency response, primarily because of their frequency agility. But with programmable radios EVERYWHERE, the HAMS no longer have an edge. We have had programmable HT's for 15 years... Now that everyone else has them, what NEW can HAM radio bring to an event?

How about APRS?

Good question. But how many years will it be until most HAMS that get out there at 4 AM will trade in their commodore 64's? We had only 5 GPS trackers show up this year vice 11 last year, and fewer than a handful of APRS ops. With my 6 screens, it still looked impressive in Net Control, and the one screen we placed in the Marine Corps tent had a Lieutenant GLUED to it the whole event as if it were a crystal ball... but it was a facade. I was the only operator that had ever touched APRS. (The other few APRS ops were out on the road). We just havent gotten the attention of the EMERGENCY RESPONSE HAMS in the area.

I do not solicit APRS for these local groups since that would appear to be a conflict of interest for me, but in those area where at least ONE person on the INSIDE of the EMERGENCY COMMS groups has gotten turned-on to APRS, there seems to be a lot more success... But I still have not seen any APRS articles in the major ARES publications...

Get those operators TRAINED. With a multiple SCREEN setup, you only need ONE good APRS operator at the MASTER, but everyone in the emergency response team, should be familiar with the basic CURSOR, ZOOM and MAP display. The P and L list also come in handy... Good luck guys!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

413. Re: [APRSSIG:4000] What Northridge Taught Us!

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Tue, 24 Oct 1995 12:21:57 -0700
To: aprssig@tapr.org
Message-ID: <199510241921.MAA29439@ix11.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>[1] "It's time for the Amateurs to stop playing" was heard recently from a
>County EMS official who said (of their ACS program which includes REACT
>personnel), "The REACT responders are far more professional and
>disciplined than are the Amateurs, who waste time and energy on unrelated
>matters or talk." (Comment: Ouch - that hurts. Sounds like too much shop
>talk, reminiscing, flying decades old missions, and using "ham-speak"!)

I can relate to this. A lot of net controllers and public service volunteers
need to learn to "say it and shut up".

Jack

414. Re: [APRSSIG:3992] RE: Gridsquares

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Oct 1995 16:20:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951024161918.16195B-100000@greatlakes>
Rendered body type: text/plain

Keith wrote:

> The GRID-SQUARE system as established by international groups includes not
> only the 4-digit Grid-square used in APRS, but ALSO a 6-digit grid-square in
> the format of.....

APRS has always supported the 6 digit grid square...

415. MCM 95

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Oct 1995 16:42:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951024163442.16195G-100000@greatlakes>
Rendered body type: text/plain

SOmeone asked to further distribute my musings on the MC Marathon. I
would prefer not. My comments were only from my very nearsighted digital
view, and I dont think it represents an overall view.

HAM radio was a VERY POWERFUL contributor to the marathon, and the small
army of HAM radio volunteers did a great job. HAM radio at the MCM
was a success!

Its just that it seemed different this year...
I would prefer to hear what the final wrap-up sounds like after all of
the info has been digested by the organizers.. WHO PUT IN 100 TIMES
more effort than I did...

My musings were only from a digital perspective... and beyond that,
need not generate a lot of general PUB-SER comments onthis SIG...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

416. Re: [APRSSIG:4004] MCM 95

From: KD4EMI@aol.com
Date: Tue, 24 Oct 1995 19:40:09 -0400
To: aprssig@tapr.org
Message-ID: <951024194008_53352089@mail06.mail.aol.com>
Rendered body type: text/plain

I have been reading , with great interest , the comments about the
Marine Corps Marathon. Living in South Florida, (hurricane central),
I would like to share some thoughts on my experiences both with hurricane,
and with special events that come up. (with a digital perspective)

#1 Hurricanes:

Packet was used extensively to push H&W traffic as well as important
info out of the area. Ham operators really came through. This is it...!
Plain and simple..we helped alot. APRS has the potential of aumenting
this even more. BUT please look at the special events comments:

#2 Special Events...

I have participated in about 5 special events since I have been a ham. Many times I am really embarrassed at the way other hams show up for work. Putting it simply, 1st impressions mean alot. When you see a shabby, derilict looking person with a radio, it does not instill confidence in what we do. As Ambassadors, we must appear proffesional, act professional and BE professional. Ive seen guys, as soon as they arrive, go rummaging around the feed tent looking for food, like scavengers. Dirty shirts that look like they just changed the oil in the car, severe body odor, and other atrocities are frequent. I go out of my way to find folks that want to be thought of as communication professionals, able to improvise and solve any communications problem that may come up. Maybe I got this idea having served as a Navy Corpsman with the Marines for several years. WE should look like communications PROFESSIONALS. Anyway, the return invites are declining. I really think folks can get embarrassed by our presence. The whole point is this: IF you have the honor of serving, be sure you try to reflect proudly on what you do. This doesnt mean wearing geek badges around your neck and slinging along 20 HT's so you look like your in charge, it means DO YOUR JOB, and try to appear trustworthy ! (i.e. take a bath and wash your shirt)
(although radios with lots of knobs and buttons help)

Digitally speaking, APRS I still believe has alot to offer. IT is an adjunct to regular voice communications. I think that it is up to us to guide Bob and tell him what our needs are. Give suggestions, give feedback. Lets let this program mutate into a better and better system. We need to invent, we need to dream up new ideas, we need to create a better and better system.

For what it is worth, I and another ham are building a remote control blimp with ATV and APRS system. It's loiter capability should provide an interesting show during these type of events.

Dont be just a user...Give feedback to our people who write these farsighted programs. Remember the hams of old, how inventivness was the standard of the day.. Heck we cant even fix our own radios anymore !

I'm done... Flame away..
Mike KD4EMI

417. Cows In Space update

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 24 Oct 1995 18:58:49 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199510242358.SAA02180@solar.cs.tamu.edu>
Rendered body type: text/plain

Just thought I'd let you guys (and gals) know where we "stand" with Cows In Space. For those unfamiliar, I'm involved with a research project that's using GPS trackers, with realtime and subsequent post-processing, differential correction to track a fully instrumented herd of animals around a 400 acre pasture. We're intersted primarily in the animals' interaction with the ecology, including feed and forage and insect infestations.

Last week, we put a number of animals in the field. We had some successes, and some failures. Tomorrow I hope to have a handle on some more of the failures and their modes, but it's known that:

1. One of the custom made GPS trackers got too hot to touch as soon as plugged to power... lithium D cells for those who're interested... and was not working later.
2. The differential Station we used to generate RTCM SC-104 output did GREAT. Except that it put something else out too, and confused the heck out of the Motorola OnC0re receivers.
3. 5 of the trackers failed for currently unknown reasons.
4. One of the 2 fixed sites that we use for check and post-processing data appeared to be programmed correctly and emitted exactly ONE burst of packet data after power was applied. More troubleshooting.

All of the battery packs still had juice when collected at the end of the week. The data collection period was foreshortened because of other problems we had at the front end, necessitating about 12 hours of intense driving for me last Tuesday (Texas is not a small state!).

The TNCs always transmitted a LF character when sending out the GPS data. No

reason we could find, and PacComm are working on what happened. I have some thoughts but will share those with Paul later, AFTER I've characterized it some more.

We have good data on those cows we got any back from. We wre collecting data at 15 second intervals. That turns into a *LOT* of data over th course of a week.

Oh, and APRS worked just fine. Bob, we need to talk about a couple of things, but that can wait. the NMEA log fx was a lifesaver. I've about got the post-processing done, and expect 2 meter error or less!

I'll post a map of Lacopita Research area (or at least our little piece of it) and a subset of the cow data sometime in the next couple of weeks. We have to get some publication out with the first dataset before we release data anywhere...

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

418. Re: [APRSSIG:4005] Re: MCM 95

From: CMPK59D@prodigy.com (MR ROBERT D SWAIN)
Date: Tue, 24 Oct 1995 20:53:48 EDT
To: aprssig@tapr.org
Message-ID: <013.03507887.CMPK59D@prodigy.com>
Rendered body type: text/plain

-- [From: Robert D. Swain * EMC.Ver #2.10P] --

Mike and the group (I'm trying to keep this APRS oriented),

"Flame away", you say Mike... Well I can't flame comments like that! In fact, I couldn't agree more!

I am amazed each time I show up at a ham club meeting to demo APRS or DFing. I realize we are doing this on OUR time and at OUR expense but c'mon...is it too much to ask to wear CLEAN clothes?

Unfortunately I think part of our image problem stems from our name - AMATEUR. Often I find myself saying HAM operator instead... this goes only slightly further than the previous. I understand WHY we have those titles, and I am PROUD to be part of it all, but look at it from the outside world... would you rely on an AMATEUR mechanic to fix your car? Would you take your children to an AMATEUR doctor?

In title alone we loose much of our credibility. If you didn't know any better, which would you choose - amateur radio or a radio group called REACT? Hummm

We radio operators always have and always will have much to offer the emergency services. We need to get involved. When I give an APRS demo, there are always people in the crowd that have seen it, used it, or know more about it than myself! Why then does it take a visitor like me to "introduce" a new tool for us to use? Seems like SOMEONE would have already done a demo. I'll bet you'd be surprised how many clubs have not been ENLIGHTENED yet.

We need to get going and kill this negative trend before it gets worse. I'm not simply crying wolf here. We have already collectively lost the ability to build a radio, we loose frequencies much too often, and what help we were providing seems to be slipping through our fingers. It won't be hard for the FCC to divide the rest of our "land" if we don't use it for what it was intended.

Are we doomed? Certainly not! We of all people can get our act together in short order. Next time your at a ham meeting, offer to bring some new idea next month. Next time you check into the net, don't say "in and out". We have plenty to talk about and PLENTY of RF "real estate" to do it in! Let's use our talents and refine our skills before we too are talking about the "good ole days" of radio.

As for the marathon, I'm as guilty as anyone for sitting home that weekend. I have a full complement of gear that would have been put to good use.

I'm sure I'm speaking to the choir here but we have to start somewhere....

As he said, Flame away!
Robert, N7LUE

419. Re: [APRSSIG:4006] Cows In Space update

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 24 Oct 1995 21:36:19 -0400
To: aprssig@tapr.org
Message-ID: <199510250140.VAA10333@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

Gerry Creager N5JXS wrote:
>Just thought I'd let you guys (and gals) know where we "stand" with Cows In
>Space. For those unfamiliar, I'm involved with a research project that's
>using GPS trackers, with realtime and subsequent post-processing,
[...]
>
>We have good data on those cows we got any back from. We wre collecting data
>at 15 second intervals. That turns into a *LOT* of data over th course of a
>week.
[...]
>I'll post a map of Lacopita Research area (or at least our little piece of it)
>and a subset of the cow data sometime in the next couple of weeks. We have to
>get some publication out with the first dataset before we release data
>anywhere...

Are your preprints ready yet? We're in the modern communication age.
I can hardly wait.
:-)

73,
Bob kirk N30ZB

420. Re: [APRSSIG:4005] Re: MCM 95

From: schwab@IntNet.net (chris schwab)
Date: Tue, 24 Oct 1995 21:49:53 -0400
To: aprssig@tapr.org
Message-ID: <9510250138.AA09177@mailhost.IntNet.net>
Rendered body type: text/plain

>#2 Special Events...

>I have participated in about 5 special events since I have been a ham.
>Many times I am really embarrassed at the way other hams show up for work.
>Putting it simply, 1st impressions mean alot. When you see a shabby, derilict
>looking person with a radio, it does not instill confidence in what we do. As
>Ambassadors, we must appear proffesional, act professional and BE
>professional. Ive seen guys, as soon as they arrive, go rummaging around the
>feed tent looking for food, like scavengers. Dirty shirts that look like they
>just changed the oil in the car, severe body odor, and other atrocities are
>frequent. I go out of my way to find folks that want to be thought of as
>communication professionals, able to improvise and solve any communications
>problem that may come up. Maybe I got this idea having served as a Navy
>Corpsman with the Marines for several years. WE should look like
>communications PROFESSIONALS. Anyway, the return invites are declining. I
>really think folks can get
>embarrassed by our presence. The whole point is this: IF you have the honor
>of serving, be sure you try to reflect proudly on what you do. This doesnt
>mean wearing geek badges around your neck and slinging along 20 HT's so you
>look like your in charge, it means DO YOUR JOB, and try to appear trustworthy
>! (i.e. take a bath and wash your shirt)
>(although radios with lots of knobs and buttons help)
>

I realize that this has not much to do with APRS , but I have to agree with
this statement. If we are to prove to the community what a resource we are,
we have to look like we know what we are doing ...

Just my two cents worth ..

- 73 , de Chris Schwab KD4PHS -
- KD4PHS @ KD4PHS.#TPA.FL.USA.NOAM -

421. stand-alone trackers

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Tue, 24 Oct 1995 22:13:40 -0600
To: aprssig@tapr.org, dwetzel@acs.uswest.com
Message-ID: <9510242213.AA40708@oscar.tbr.state.tn.us>
Rendered body type: text/plain

> For all, if you haven't already done so, please take a minute and use
> the following format to email me a description of your
> stand-alone trackers for a sig configuration "bible" that I'm
> compiling. Thanks
>
>
> Doug Wetzel
> KC7CO
> dwetzel@acs.uswest.com

----- GPS Responses Be low: -----

>TNC Make and Model:

Kantronics KPC-3

>TNC Firmware Rev:

6.0 (GPS supported)

>GPS Receiver Make and Model:

Garmin GPS-45

>GPS Receiver Firmware Rev:

2.39

>Interface Converter/Switch Make and Model:

None

>Cable Pinout

GPS45	RCA-M	RCA-F	DB25M
Brown Data Out-----	Black Tip	-> Black Tip-----	Pin 3
White Data In-----	Black Ring	-> Black Ring-----	Pin 2
Black Ground-----	Red Ring	-> Red Ring-----	Pin 7
	Ground (Sleeve) (plug for KPC3 Power)-----		Ground Power Source
	12VDC Power (Tip) (Plug for KPC3 Power)-----		12VDC Power Source
Red Power-----	Red Tip	-> Red Tip-----	

>
>Comments:

Use a MFJ cable from KPC3 to Icom IC2A. Using a VoCom Power Pocket amplifier to supply power to the HT and give it a 20 Watt output to a 5/8 wave Antenna on a NMO hole mount. With RCA plugs on the GPS wire this gives flexibility to adapt this to us on a laptop later. Power thru the DB25 supplies power to the KPC3 and the GPS45. I picked up the IC2A at a hamfest for \$80 (the guy swore it worked, just the battery was dead) turns out it transmits fine but doesn't receive (I'll try to fix it later but there is no hurry, the tracker just has to yell "Here I am!!" Right?) I picked up the VoCom at another Hamfest for \$20. Purchased the GPS45 from E&B Marine for \$350 including cable, mount and shipping. GPS45 is mounted above my C5718 remote head so it is easy to see when driving. Also using a Motorola active antenna on a mag mount. (Wish this would screw onto an NMO mount.) KPC3 is one I picked up at a Hamfest for \$105. Total investment is about \$730, the GPS and antenna make up over 60% of that.

422. L O N G APRS hop!

From: rwf <rwf@mindspring.com>
Date: Tue, 24 Oct 1995 23:55:32 -0400
To: aprssig@tapr.org
Message-ID: <199510250355.XAA04180@dylan.mindspring.com>
Rendered body type: text/plain

Unless someone snuck in a GATE on me and didn't call it GATE, I captured a couple of nice catches early this morning!

Maybe It happens "all the time", but I have never seen it- not even during my thousands of meteor scatter xmissions.

On my screen and P-List here in Atlanta were the following stations:

N2MSM-14 and his Ultimeter-II WX station
the P list time/date was 240452 and his path was N2IPH-15,W2HOB-15,Wide,Wide*

WA2JNF-4 Digi in Brooklyn at 240351 using the following path:
Wide,Wide* (nice one!)

"Big Daddy" Bob Bruninga's very own RELAY digi WB4APR-1 in Annapolis, at 240401
It used the path: WIDE,WIDE*,W2HOB-15,WIDE

and

N2NYZ using the path WA2JNF-4,WIDE,WIDE*,W2HOB-15,N2IPH-15,WIDE

Good job, all you Northerners.

GO BRAVES!!

Ralph , N4NEQ Atlanta GA

423. Re: [APRSSIG:4011] L O N G APRS hop!

From: Bob Wilkins n6fri <rwilkins@ccnet.com>
Date: Tue, 24 Oct 1995 21:31:14 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951024212402.8104A-100000@ccnet3>
Rendered body type: text/plain

On Tue, 24 Oct 1995, rwf wrote:

> Unless someone snuck in a GATE on me and didn't call it GATE, I captured a
> couple of nice catches early this morning!

That gate is called tropo ! the band was wide open last night...

> Maybe It happens "all the time", but I have never seen it- not even during
> my thousands of meteor scatter xmissions.

That is why I like the heard screen It doesn't happen all the time, but
it is exciting when it does. We can see the dx right on screen.

> On my screen and P-List here in Atlanta were the following stations:

> N2MSM-14 and his Ultimeter-II WX station
> the P list time/date was 240452 and his path was N2IPH-15,W2HOB-15,Wide,Wide*

> WA2JNF-4 Digi in Brooklyn at 240351 using the following path:
> Wide,Wide* (nice one!)

> "Big Daddy" Bob Bruninga's very own RELAY digi WB4APR-1 in Annapolis, at 240401
> It used the path: WIDE,WIDE*,W2HOB-15,WIDE

> N2NYZ using the path WA2JNF-4,WIDE,WIDE*,W2HOB-15,N2IPH-15,WIDE

> Good job, all you Northerners.

> Ralph , N4NEQ Atlanta GA

The boys up north should have seen you on the screen as well.

Have Fun!

Bob n6fri

Bob Wilkins
Berkeley, California
94712-2354

work bwilkins@cave.org
home rwilkins@ccnet.com
play n6fri@n6eeg.#nocal.ca.usa.noam

424. RE: [APRSSIG:4009] Re: MCM 95

From: munseyj@america.com
Date: Wed, 25 Oct 95 00:29:45 EDT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.951025003252.munseyj@america.com>
Rendered body type: text/plain

I must agree with the write.. I hate to admit it but it is true.

Not only a functions where they are "working" but too often at club meeting, ham fests ect. Far too many hams just don't seem to care to make a good impression.

Of course, this is a minor part of the ham population. Most hams are clean, well manered and well spoken but the few make a poor showing for all of us.

John Munsey KB3GK

E-mail: munseyj@america.com
10/25/95 00:29:45

425. Is this realy

From: intercomm.net!wnolle (William Nolle)
Date: Wed, 25 Oct 1995 05:32:36
To: tapr.org!aprssig
Message-ID: <199510251033.FAA26782@sys1.tapr.org>
Rendered body type: text/plain

I have a question IS THIS REALY THE APRS SIG.

The last few days all i see is messages pertaining to some hams that need to take a bath and put on a clean shirt.

GUYS GROW UP AND GET A LIFE....

Bill KE4EER
wnolle@intercomm.net (I think hi)

426. Re: [APRSSIG:4008] Re: Cows In Space update

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 25 Oct 1995 08:42:16 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199510251342.IAA10434@solar.cs.tamu.edu>
Rendered body type: text/plain

I'll post to the group when the preprints are ready. Really. After all, it IS the modern communications age.

I was up at the office getting the first presentation on Cows In Space finished or a GIS symposium invited presentation on Friday. After that, if the PI agrees, I'll post a couple of hours of data and the map. Oh, yes... I'm getting to scoop the PI on this one. And he's even being graceful about it! I'm giving the first paper, and it was invited!

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

427. Re: [APRSSIG:4012] Re: L O N G APRS hop!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 25 Oct 1995 09:02:05 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199510251402.JAA10799@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Wilkins n6fri sez:

>

>

> That gate is called tropo ! the band was wide open last night...

Actually, it's usually (and more correctly) called "anomolous propagation." The term "tropo" is not just real good as a descriptor of what is really happening... I would guess he saw Ap across the line of that cold front

pushing east, but I'd have to look at some wx charts to make sure.

>
> The boys up north should have seen you on the screen as well.

Not necessarily. AP (or ducting) can easily be one way. It's a fairly interesting phenomenon. We spent quite a bit of time on the subject studying AP when I was learning about radar... The frequencies are different but the concepts are the same from about 120 MHz on up.

73 gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

428. Re: [APRSSIG:4012] Re: L O N G APRS hop!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 25 Oct 1995 11:21:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951025111854.4092H-100000@greatlakes>
Rendered body type: text/plain

On Wed, 25 Oct 1995, Bob Wilkins n6fri wrote:

>
> That gate is called tropo ! the band was wide open last night...
>
> The boys up north should have seen you on the screen as well.
>

APR REPLY: The problem up here in the NEast, is that our P and L lists fill up in only an hour or two, so even the Heard Log wont show anything more than a few hours old, hi hi... Putting on the HF GATE filter, I guess would help...

429. Standby for VAPORware v7.4

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 25 Oct 1995 11:44:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951025113722.4092K-100000@greatlakes>
Rendered body type: text/plain

Having added the ULTIMETER-2000 code, I was looking for any other things on the TO-DO list to add for version 74. I decided to take another stab at the BUS MOUSE.... And with a little help from WK5M, Karl.....

IT WORKS! (on my laptop anyway)

It is all finished and bug free, but I added it to an old smaller copy of APRS to debug. Now all I gotta do is move it into the main APRS and it should be out in a day or so... But if I encounter any problems, then it will be more than a week, since I am headed to Atlanta for my 25th reunion at GaTech this weekend... (1 watt GPS mobile only).... and NO time for HAM activities...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

430. Re: [APRSSIG:4005] Re: MCM 95

From: dwetzel@acs.uswest.com
Date: Wed, 25 Oct 1995 09:52:52 -0500
To: aprssig@tapr.org
Message-ID: <08e468e0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

I have participated in about 5 special events since I have been a ham. Many times I am really embarrassed at the way other hams show up for work. Putting it simply, 1st impressions mean alot. When you see a shabby, derilict looking person with a radio, it does not instill confidence in what we do. As Ambassadors, we must appear proffesional, act professional and BE professional. Ive seen guys, as soon as they arrive, go rummaging around the feed tent looking for food, like scavengers. Dirty shirts that look like they just changed the oil in the car, severe body odor, and other atrocities are frequent. I go out of my way to find folks that want to be thought of as communication professionals, able to improvise and solve any communications problem that may come up. Maybe I got this idea having served as a Navy Corpsman with the Marines for several years. WE should look like communications PROFESSIONALS. Anyway, the return invites are declining. I really think folks can get

embarrassed by our presence. The whole point is this: IF you have the honor of serving, be sure you try to reflect proudly on what you do. This doesn't mean wearing geek badges around your neck and slinging along 20 HT's so you look like you're in charge, it means DO YOUR JOB, and try to appear trustworthy ! (i.e. take a bath and wash your shirt)
(although radios with lots of knobs and buttons help)

Digitally speaking, APRS I still believe has a lot to offer. IT is an adjunct to regular voice communications. I think that it is up to us to guide Bob and tell him what our needs are. Give suggestions, give feedback. Let's let this program mutate into a better and better system. We need to invent, we need to dream up new ideas, we need to create a better and better system.

For what it is worth, I and another ham are building a remote control blimp with ATV and APRS system. It's loiter capability should provide an interesting show during these types of events.

Don't be just a user... Give feedback to our people who write these farsighted programs. Remember the hams of old, how inventiveness was the standard of the day.. Heck we can't even fix our own radios anymore !

I'm done... Flame away..
Mike KD4EMI

Well said, Mike!

We are as much public servants as any politician - and there are plenty of the latter after our frequencies. Looking like scruffy bikers does NOT endear us to those in a position to influence the politicians, and acting professionally is 80 percent of being a professional.

431. Re: [APRSSIG:4017] Re: L O N G APRS hop!

From: n8mwz@alpha.wcoil.com (Bob Hartman)
Date: Wed, 25 Oct 1995 13:20:10 -0400
To: aprssig@tapr.org
Message-ID: <199510251720.NAA21181@alpha.wcoil.com>
Rendered body type: text/plain

>On Wed, 25 Oct 1995, Bob Wilkins n6fri wrote:
>>
>> That gate is called tropo ! the band was wide open last night...
>>
>> The boys up north should have seen you on the screen as well.
>>
>APR REPLY: The problem up here in the NEast, is that our P and L lists
>fill up in only an hour or two, so even the Heard Log won't show anything
>more than a few hours old, hi hi... Putting on the HF GATE filter, I
>guess would help...

Bob,
Possibly you should give some more thought about expanding the different screens from their present 5 screens to 10 or more. If the memory required is too much, make it to be able to toggle on and off or save and read the lists directly from the disk drive using a temporary file that gets deleted when the program is terminated. (unless you use the F S option) Another option to save memory may be to call in different parts of the program as modules, only when they are activated, such as meteor scatter, DF, DX Cluster, etc.
Obviously, I am not a programmer, but there must be *SOME* way that this can be done. If I was in the enviable position of routinely getting all five screens full, I assume that it would be very frustrating to know you have reached the limit.

432. Re: [APRSSIG:4017] Re: L O N G APRS hop!

From: "Ralph Fowler, N4NEQ" <rwf@mindspring.com>
Date: Wed, 25 Oct 1995 13:49:55 -0400
To: aprssig@tapr.org
Message-ID: <199510251749.NAA23255@dylan.mindspring.com>
Rendered body type: text/plain

I forgot to mention, (to echo Bill Nolle) Thank you for the GATE filter!
I keep it on all the time unless something interesting is going on (like the marathon or a balloon) or I want to "show off".

No one has mentioned seeing any of our stations. Don't any of the rest of you

look at your P lists?

Bob do you have a log file for that night you can check?

At 10:28 AM 10/25/95 -0500, you wrote:

>
>On Wed, 25 Oct 1995, Bob Wilkins n6fri wrote:
>>
>> That gate is called tropo ! the band was wide open last night...
>>
>> The boys up north should have seen you on the screen as well.
>>
>APR REPLY: The problem up here in the NEast, is that our P and L lists
>fill up in only an hour or two, so even the Heard Log wont show anything
>more than a few hours old, hi hi... Putting on the HF GATE filter, I
>guess would help...
>
>
>

433. Re: [APRSSIG:4018] Standby for VAPORware v7.4

From: jan@archimedes.vislabs.navy.mil (Jan A. Barglowski)
Date: Wed, 25 Oct 1995 11:50:21 -0700
To: aprssig@tapr.org
Message-ID: <v01520d00acb32ca74a10@[129.131.31.10]>
Rendered body type: text/plain

>It is all finished and bug free, but I added it to an old smaller copy of
>APRS to debug. Now all I gotta do is move it into the main APRS and
>it should be out in a day or so... But if I encounter any problems,
>then it will be more than a week, since I am headed to Atlanta for my
>25th reunion at GaTech this weekend.... (1 watt GPS mobile only)....
>and NO time for HAM activities...
>
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

Will version 74 contain the DR code that you used in the MCM?

73, jan
kc6uth

434. Re: [APRSSIG:4011] L O N G APRS hop!

From: n2czf@gate.net
Date: Wed, 25 Oct 1995 17:56:49 -0400
To: aprssig@tapr.org
Message-ID: <199510252156.RAA138224@tequesta.gate.net>
Rendered body type: text/plain

You are possibly right in having a long haul path, WA4JNF-4, W2HOB and WB4APR are BIG powerhouse stations. Not that they run a lot of power but they are located at a few very well chosen sites.

The other possibility I see from studying the paths is that someone in the Annapolis area could have by mistake set their MYGATE to WIDE. All of the above stations can be seen in the MD/VA area with a correct path (which they had). Anything with a WIDE in the path would have gone out on HF and bingo instant Skip!

I originally started in the NJ APRS group and visited in September with APRS in the car from FL to NJ. Once we got in Annapolis range all of those stations stayed in mobile coverage for most of the trip ending near NY. In most probability someone messed up for a little while hi hi.

73's Rich N2CZF
n2czf@gate.net

435. Re: [APRSSIG:4021] Re: L O N G APRS hop!

From: n2czf@gate.net
Date: Wed, 25 Oct 1995 18:05:59 -0400
To: aprssig@tapr.org
Message-ID: <199510252205.SAA126297@tequesta.gate.net>
Rendered body type: text/plain

The GATE filter is great here in SFL we need it sometimes with the amount of activity we have!

As far as the GATE filter yes, that would have cleared up the GATE variable but how about a GATE that is really "WIDE". Correct me if I am wrong but the GATE filter suppresses any station that comes along with GATE in it's path. If it came along with WIDE in it's path through a GATEWAY ALIAS of WIDE it would not suppress anything, correct ??

Don't get me wrong I love 2 and 432 openings I have been a avid DX'er on VHF and UHF for many years but let's not get too excited just yet! It CAN happen, I have worked FL from NJ and NJ from FL on 2M SSB with 80W at 40ft but it is not common, let alone on FM.

436. Tracker Data

From: Pat Bunsold <pbunsold@cati.csufresno.edu>
Date: Wed, 25 Oct 1995 15:24:27 -0700
To: dwetzel@acs.uswest.com
Cc: wa2jrv@digital.net
Message-ID: <199510252224.PAA18537@CATI.CSUFresno.EDU>
Rendered body type: text/plain

TNC TYPE: KPC3
FIRMWARE: 6.0
GPS: Trimble Acutime smart antenna
Interface: Direct to TNC through Null Modem cable
Comments: The WA6MHZ APRS Tracker is mounted in the trunk in a Tuner box and is independent from the Vehicle, as it uses a 18AH Gel Cel for power. Radio is an old Santec HT which runs into a Kantronics 2-30W HT Power Amp on during drive times. A special timer circuit was designed so that while the auto is parked, the APRS system is only active the last 2 minutes of each ten minute period. This allows the auto to stay on the map without alot of channel QRM. The circuit also turns the GPS Rcvr 3 minutes early to allow it time to acquire sats. This cuts down battery drain by almost 70%! During drive time, 12V from the ignition enables the circuit for continous spots and also recharges the Gel Cel. Everything is easily removed on a momments notice and allows setup in other vehicles. The Trimble GPS is a Mushroom type unit with no display and only NMEA0183 data out (\$GGA sentences). It sits on the rear window shelf of the car and gets excellent results there. These units were purchased by many of us in San Diego on a special deal used for only \$70!!! Bet the rest of the APRS world would KILL for a deal like this! The Trimbles outperform the Garmins and others tremendously, but without the whistles & bells. For APRS use they are ideal! We will be demoing APRS and the mobile Trackers to a large crowd of San Diego area Hams at the Ham Radio Roundup on Sunday Oct 29th, so expect to see even MORE hams on from the Southwest! For those who read this in time, it will be at Convair Missile Park near HRO in San Diego. 73 and C U on the MAP! Pat WA6MHZ, ARRL San Diego Section Manager

437. Re: L O N G APRS hop!

From: rwf <rwf@mindspring.com>
Date: Wed, 25 Oct 1995 20:14:27 -0400
To: aprssig@tapr.org
Message-ID: <199510260014.UAA20151@dylan.mindspring.com>
Rendered body type: text/plain

Rich, N2CZF said that maybe someone in the Annapolis area could have set MYGATE to WIDE accidentally, placing any station with WIDE in its path out on HF. I am not too familiar with GATES, but wouldn't my GATEfilter have filtered out the incoming GATE on my side?

Bob Wilkins sent me the following forwarded message that may explain my L O N G haul APRS. I kinda thought he might post it here, but since he didn't I will.

Ralph

----- Forwarded message -----
Date: Tue, 24 Oct 1995 12:37:27 EDT
From: klimas@uhavax.hartford.edu
To: vhf@w6yx.stanford.edu
Subject: Connecticut TROP0 report

BIG Tropo on 2m through 1296 last night Oct.23 and this morning Oct.24 !

Started w/ KF4AMB FM16 at 2325Z, then WD4IXD EL98 and W4EMB EL95 on 144. Indeed, by morning I had at least 2 dozen Florida stations alone in my log on either 144, 222, or 432. Plus numerous GA, SC and AL Qsos. Best 144 dx for me was KE4NJM EL94 (FL Keys) at 1270 miles. Had exciting 432 qsos w/ N4TAE EM90, WD4IXD EL98, N0KBH & WA4CHA EL88. New grids on 222 w/ NI4Z EL98 and WB4JEM EL89. Most exciting to me, though was KP4XS EM84 on 903 and 1296 and NA4I EM83 on 1296! Love it!

\\///
secretary: (' 0 0 ') North East Weak Signal group, ARRL affil.
-----oo0-()-0oo-----
| 73 de Ron WZ1V, email: klimas@uhavax.hartford.edu |
| Grid FN31mp 6-1296 (2304 soon) Shack: 860-589-0528 (for skeds) |
N.E.W.S. group Web Page: http://uhavax.hartford.edu/newsvhf
Submissions: vhf@w6yx.stanford.edu
Subscription/removal requests: vhf-request@w6yx.stanford.edu
Human list administrator: vhf-approval@w6yx.stanford.edu

438. APRS74 with MOUSE!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 25 Oct 1995 20:22:20 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951025201609.17194H-100000@greatlakes>
Rendered body type: text/plain

[BOn Wed, 25 Oct 1995, Jan A. Barglowski wrote:

> Will version 74 contain the DR code that you used in the MCM?

ANSWER: NO. 74 hopefully should be the new baseline from which I can now build the followZAing:

APRSdr
APRSdx
APRSwx
APRSgps

But since 74 is still a full up version and is only 373K, down from a high of 410K some months back, maybe I dont need to make smaller versions? Is anyone still having memory problems? 74 is 1K smaller than even 73d..@..

PS. The following files are being uploaded to FTP@tapr.org in the directory tapr/SiG/aprssig/upload. Should be finished by 2100 EDT

72cto74.zip
73dto74.zip
aprs74.zip

The mouse code I used said it might not work with HERCULES and/or some CGA displays...

439. Re: [APRSSIG:4026] Re: L O N G APRS hop!

From: n2czf@gate.net
Date: Wed, 25 Oct 1995 21:43:40 -0400
To: aprssig@tapr.org
Message-ID: <199510260143.VAA114548@tequesta.gate.net>
Rendered body type: text/plain

In RE: to my last message there also is a GATE in Central/North NJ which could have been an outlet. That station has been on for a long time and knows better, the only possibility that the signals came from a GATE on the NJ side would mean that he messed up by mistake.

Reason I think it is possible is that the GAT's location in NJ can hear WB4APR-1 with little help with propagation. It is right on the border of being heard with 1 WIDE and if there was a slight opening APR-1 could have made it directly and then out on HF with it's 1 WIDE, IF MYGATE was set to WIDE.

After reading more condition reports I am swaying more towards a fantastic opening. Seems that conditions were very good, but do remember nothing is failsafe when it comes to TNC parameters.

I have set MYGATE to WIDE on 2 occasions in the past, 1 was for the ARMY-NAVY Football run about 3 years ago on 40 so W3ADO could copy position reports if VHF failed (runners were going out only on VHF). The second opportunity was when Brothers TO the Rescue flew their first flight with APRS in International/Florida waters looking for rafters. Now "BTTR" flys about 3 times

a week and use GATE on occasion, no need to create a possible mess with MYGATE as WIDE.

73's Rich N2CZF
n2czf@gate.net

440. Re: [APRSSIG:4027] APRS74 with MOUSE!

From: rwf <rwf@mindspring.com>
Date: Thu, 26 Oct 1995 02:04:34 -0400
To: aprssig@tapr.org
Message-ID: <199510260604.CAA19731@dylan.mindspring.com>
Rendered body type: text/plain

That Mouse is Great!
Never realized how helpful it was because I never owned a Microsoft serial mouse. The new code worked first time with my Logitech Bus Mouse even in a DOS window.

Thanks Bob

Ralph Fowler
N4NEQ

At 07:45 PM 10/25/95 -0500, you wrote:

>PS. The following files are being uploaded to FTP@tapr.org in the
>directory tapr/SIG/aprssi/upload. Should be finished by 2100 EDT
>
>72cto74.zip
>73dto74.zip
>aprs74.zip
>
>The mouse code I used said it might not work with HERCULES and/or some
>CGA displays...
>

441. Map14.zip

From: "Sam Fant Jr." <sam2316@enterprise.america.com>
Date: Thu, 26 Oct 95 06:17:45 PDT
To: snabkey@wingsbbs.com, dkaplan@pionet.net, n2czf@gate.net, aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.951026062247.sam2316@sam.america.com>
Rendered body type: text/plain

Hello!
Attached to this note is the file map14.zip. Please reply upon receiving it.
73 Sam
[Attachment: MAP14.ZIP; application/zip; 122,558 bytes]

442. Re: [APRSSIG:4027] APRS74 with MOUSE!

From: edwardwr@interaccess.com (Edward W Rogers)
Date: Thu, 26 Oct 1995 06:17:24 -0500
To: aprssig@tapr.org
Message-ID: <199510261121.GAA29361@thymaster.interaccess.com>
Rendered body type: text/plain

Bob,

Mouse sure makes it easy and it worked perfect from first startup session. I've run it both from DOS with a bus mouse on my Acer laptop and with Win95 on my Quantex desktop with a "normal" serial mouse and did not have to change setup!!!
I'm going to load it into a GRiDPAD 8088, CGA, with a pen style pointer built in I'll let you know.

Great job
Thanks
Ed
N9LCI

443. Re: [APRSSIG:4027] APRS74 with MOUSE!

From: Larry Griffin <largriff@onramp.net>
Date: Thu, 26 Oct 1995 07:44:32 -0500
To: aprssig@tapr.org

Message-ID: <199510261244.HAA28707@mailhost.onramp.net>

Rendered body type: text/plain

APRS74 with MOUSE is working great for me on my 386SX16. I'll try the laptop later.

THANKS BOB!

Larry AB5GE

444. Re: [APRSSIG:4025] Tracker Data

From: dwetzel@acs.uswest.com

Date: Thu, 26 Oct 1995 07:45:14 -0500

To: aprssig@tapr.org

Message-ID: <08f7a240@acmspgw1.mnet.uswest.com>

Rendered body type: text/plain

TNC TYPE: KPC3

FIRMWARE: 6.0

GPS: Trimble Acutime smart antenna

Interface: Direct to TNC through Null Modem cable

Comments: The WA6MHZ APRS Tracker is mounted in the trunk in a
Tuner box and is independent from the Vehicle, as it

73 and C U on the
MAP! Pat WA6MHZ, ARRL San Diego Section Manager

Thanks, Pat

Doug
KC7CO
dwetzel@acs.uswest.com

445. Re: [APRSSIG:4030] Map14.zip

From: alanwc7r@primenet.com (Alan Unangst)

Date: Thu, 26 Oct 1995 08:09:18 -0600

To: aprssig@tapr.org, aprssig@tapr.org

Message-ID: <199510261509.IAA24685@usr5.primenet.com>

Rendered body type: text/plain

Received 10/26/95 @ 1509 hrs. utc....thanks, Alan, WC7R

At 05:43 AM 10/26/95 -0500, Sam Fant Jr. wrote:

>Hello!

>Attached to this note is the file map14.zip.Please reply upon receiving it.

> 73 SamContent-Type: APPLICATION/zip;

SizeOnDisk=122558; name="MAP14.ZIP"

>Content-Description: MAP14.ZIP

>

>Attachment Converted: E:\WIN95\PRIMENET\MAP14.ZIP

>

446. Re: [APRSSIG:4030] Map14.zip

From: kc5ejk@onramp.net (Robert Winingham)

Date: Thu, 26 Oct 1995 12:09:35 -0500

To: aprssig@tapr.org

Message-ID: <v02130500acb5709a8f25@[199.1.154.24]>

Rendered body type: text/plain

>Hello!

>Attached to this note is the file map14.zip.Please reply upon receiving it.

> 73 Sam

>Content-Type: APPLICATION/zip; SizeOnDisk=122558; name="MAP14.ZIP"

>Content-Description: MAP14.ZIP

>

>Attachment converted: XHAMCALL:MAP14.ZIP (????/----) (000064F5)

Why not just sent to the FTP site and not the total mail list.
Just post a message and we can download it.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

447. APRS 74!! Mouse at last!!

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Thu, 26 Oct 1995 13:28:52 +0000
To: aprssig@tapr.org
Message-ID: <199510261724.NAA12355@hemisphere.neocomm.net>
Rendered body type: text/plain

Hello I just downloaded a copy of APRS74, and the new "any" mouse support is great! Now I can play with the mapmakeing stuff like a real mouser.

Thank you "BOB" "WB4APR" I shure appreciate your contributions to my hobby!!

73 Charles

p.s. We have new digi in Lynchburg "Russ, WA4BWB" on Tobacco Row Mt.
Also I heard a rummor of a Roanoak Digi too.

?????? When using the Pacomm as a stand alone tracker, the output is to; the unproto of GPS XXXXXX . I don't see a way to change this so my location would be rebroadcast (wide, wide). I would like to track my mobile, on home pc when I am beyond the range of my home QTH.

When an APRS station recieves a GPS position, it does not retransmite the data unless manually uplinked, is this correct ?

cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
WB4PAN@WB4QOJ.VA.USA.NOAM

448. Re: [APRSSIG:4030] Map14.zip

From: "David G. Henderson" <daveh@moose.erie.net>
Date: Thu, 26 Oct 1995 14:01:14 -0300
To: aprssig@tapr.org
Message-ID: <m0t8WZC-000fvic@moose.erie.net>
Rendered body type: text/plain

At 05:45 AM 10/26/95 -0500, you wrote:

>Hello!

>Attached to this note is the file map14.zip.Please reply upon receiving it.

>
73 SamContent-Type: APPLICATION/zip;
SizeOnDisk=122558; name="MAP14.ZIP"

>Content-Description: MAP14.ZIP

>

>Attachment Converted: F:\EMBARQUE\EUDORA\MAP14.zip

>

Hey guys,

It was inappropriate to upload the file attach to the sig. Many siggers pay for the time they are on line. Hundreds of siggers just download that file whether they wanted it or not. All who use listserv's such as this should use alternate means to get file attaches to another party--either directly via e-mail to the other party or via an intermediate ftp site such as tapr.org if the file will be of interest to all of us (as this one may be). In the case of this file, use of tapr.org and a message to the sig that it is there for testing would be the best method.

No flame, just a little education for all.

73, Dave, N3EOY

449. DFjunior

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 26 Oct 1995 15:20:52 -0400 (EDT)
To: aprssig@tapr.org
Cc: fox-list@netcom.com
Message-ID: <Pine.SUN.3.91.951026151747.28408I-100000@greatlakes>
Rendered body type: text/plain

I received the following message from Joe Agrello about their test run of their new DF unit which will be APRS compatible...

From: JAgrello@aol.com

DFjr test results:

We did a breadboarded DFjr. feild test this weekend, WOW!! it was awsom. We put together a nice little package with a HPVFC (800 milliwatt version of the VFC400) and a Micro-1.4 (voice recorder) for ID, attached it to a car and let them drive away 16 miles to an unknown location. As we proceeded to obey the intellegent DFjr's display, it ignored multi-path all the way, just like it was suppose to, we just followed the LED's and within 20 minutes we passed the street where the fox was, the LED's swung around the display as we passed the street, time to turn around, then we turned down the street like DFjr directed us to and the same thing happened as we passed the house, BINGO! there it was parked in the back of the house. Total execution time was 22 minutes.

Conclusion: the DFjr displayed no mercy.

73 de Joe N200C

Forwarded by WB4APR

450. RE: [APRSSIG:4038] DFjunior

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Thu, 26 Oct 1995 16:11:24 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <951026161124.20a066a7@exame2.dseg.ti.com>
Rendered body type: text/plain

Much interested in new DFing techniques. Is there any additional information on the DFjr system? Where and how do I get one? How much does it cost? DFing is very important - a tiein to APRS makes it doubly so!

Waiting eagerly....

Claude Head
K5DTN
chead@exame2.dseg.ti.com
(214) 995-5040 office
(214) 386-8966 home

451. Crashing 7.4

From: "Demos Doulou" <ddoulou@tesla.netline.net>
Date: Thu, 26 Oct 1995 19:38:48 +0005
To: aprssig@tapr.org
Message-ID: <199510262338.TAA08600@tesla.netline.net>
Rendered body type: text/plain

APRS 7.4 keeps crashing while running in DOZ mode and Windows 95.
7.3d runs fine.
Anyone else having this problem?

See Ya
Demos

452. Re: [APRSSIG:4027] APRS74 with MOUSE!

From: philkeys@olympus.net (Phil Keys)
Date: Thu, 26 Oct 1995 17:08:23 -0800
To: aprssig@tapr.org
Message-ID: <v01510101acb57855599c@[198.133.237.46]>
Rendered body type: text/plain

Bob wrote:

>But since 74 is still a full up version and is only 373K, down from a
>high of 410K some months back, maybe I dont need to make smaller
>versions? Is anyone still having memory problems? 74 is 1K smaller
>than even 73d..@..

I have a 512K HP95LX palmtop. By minimizing the RAM disk, the largest RAM memory is 330K. I have thought about running portable APRS on it (expecting that I won't get much of a map with the simulated EGA screen, half displayed at a time).

So a minimum memory APRS may still be useful.

73
Phil Keys

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

453. Re: [APRSSIG:4040] Crashing 7.4

From: Larry Griffin <largriff@onramp.net>
Date: Thu, 26 Oct 1995 21:32:48 -0500
To: aprssig@tapr.org
Message-ID: <199510270232.VAA23212@mailhost.onramp.net>
Rendered body type: text/plain

On Thu, 26 Oct 1995, "Demos Doulou" <ddoulou@tesla.netline.net> wrote:
>APRS 7.4 keeps crashing while running in DOZ mode and Windows 95.
>7.3d runs fine.
>Anyone else having this problem?

Yes, it crashed half a dozen times the first day on one of my 386SX16 machines with Windows 3.1. Always happened in DOZ mode. But it runs fine on another identical machine! (I have one at home and one at my office) Something about error number 5... I'll capture it next time so I can post it for Bob.

Larry AB5GE

454. More Cows In Space updates please

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 27 Oct 1995 00:24:24 -0500
To: aprssig@tapr.org
Message-ID: <v02130500acb61a9996d4@[199.1.11.139]>
Rendered body type: text/plain

Gerry ,

I thought it was called "Cow in Space" because when the cow's GPS position is plotted for the vertical axes they seem to be levitating.

Please let use know more about the battery life and any heat problem for the sealed units. Let is see some data when you can.

You are one person we know is "outstanding in his field"

73 and "Gig-em"

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

455. DIGS formatted for MACAPRS

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 27 Oct 1995 02:40:47 -0500
To: aprssig@tapr.org
Message-ID: <v02130500acb63bb75e3b@[199.1.11.117]>
Rendered body type: text/plain

WA2JNF-4*>APRS :!*****/4039.52N/07357.30W#PHG6460/WIDE AREA DIGI PUTTING BROOK
WB4APR-1*>APRS :!*****/3859.32N/07627.37W#PHG2460/WIDE digi, 5W @ 300 ft.
WA4TFZ*>APRS :!*****/3758.91N/07829.44W#PHG5760/Wide area digi at 1500' C'vi
N2IPH-15*>APRS :!*****/3927.46N/07509.47W#PHG5490/WIDE APRS Digi, Bridgeton, N
N1RHN-15*>APRS :!*****/4119.58N/07303.36W#PHG6450/WIDE AREA APRS DIGI ANSONIA,
WB4APR-11*>APRS :!*****/3932.02N/07556.53W#PHG2550/WIDE-RELAY
W4BLD-1*>APRS :!*****/3801.72N/07852.10W#PHG5740/WIDE area digi at 1876 feet
WD4HDL-1*>APRS :!*****/3844.01N/07750.07W#PHG4632/WIDE area DIGI Viewtree Mtn.
N2IPH-8*>APRS :!*****/3927.46N/07509.47W#PHG5490/WIDE APRS Digi, Bridgeton, N
K4LV*>APRS :!*****/3859.91N/07719.73W#WIDE Area APRS Digi; Great Falls VA
W2HOB-15*>APRS :!*****/3958.21N/07438.56W#PHG3460/WIDE-RELAY Pemberton
K3VDB-2*>APRS :!*****/3954.43N/07637.16W#PHG5330/WIDE APRS digi RED LION,PA.
N2FET-15*>APRS :!*****/3953.75N/07502.25W#PHG5380/WIDE APRS Digi Haddonfield N
N1APC-11*>APRS :!*****/4129.00N/07212.13W#PHG3370/WIDE AREA 24hr NODE IN OAKDA
K3ATI-11*>APRS :!*****/4005.99N/07451.59W#PHG5430/WIDE BRISTOL BORO EMA,LOWER
N3GKZ*>APRS :!*****/3902.97N/07706.18W#PHG5130/WIDE MADRAS Rockville,MD
N3NGB-1*>APRS :!*****/3926.00N/07636.50W#WIDE Explorer Post 828 Digipeater
N9RER-15*>APRS :!*****/4153.04N/08738.01W#PHG5696/WIDE
KN9JOD*>APRS :!*****/4158.38N/08841.05W#PHG5392/WIDE
KN9LCI*>APRS :!*****/4146.58N/08819.60W#PHG8160/WIDE-RELAY STATION
KE4EER-5*>APRS :!*****/3435.96N/08631.69W#PHG5760/WIDE..Huntsville, AL
KN4KMJ-7*>APRS :!*****/3329.10N/08548.53W#PHG5860/WIDE..Mt Cheaha, AL..

```

KB4IZF-2*>APRS :!*****/3429.30N/08420.41W#PHG6760/WIDE..Oglethorpe Mt Jasper
N4TKT-2*>APRS :!*****/3236.80N/08511.17W#PHG5460/WIDE
K8????*>APRS :!*****/3959.33N/08231.78W#PHG5360/WIDE
KC6YUH-3*>APRS :!*****/3800.03N/12148.85W#PHG5660/WIDE
WA6AFT-3*>APRS :!*****/3733.15N/12228.21W#PHG5780/WIDE?
NWPA*>APRS :!*****/4155.25N/08014.15W#PHG7678/WIDE NWPA APRS LANgate
WN0T-9*>APRS :!*****/3900.28N/09434.52W#PHG5560/WIDE Kansas City digi
N9RLR*>APRS :!*****/4039.96N/08934.68W#WIDE
KN4IM-5*>APRS :!*****/3312.77N/07958.43W#PHG9590/WIDE
KD4MMB-9*>APRS :!*****/3534.03N/08105.29W#PHG7730/WIDE
KU0G-4*>APRS :!*****/3907.25N/09312.00W#PHG9260/WIDE
UNKNWN*>APRS :!*****/3609.03N/08640.15W#PHG5360/WIDE/RELAY. FistFighters
AH6CP-1*>APRS :!*****/2124.00N/15806.50W#PHG6870/Digi on 145.05
PA0RYS*>APRS :!*****/5208.26N/00501.80E#PHG5550/WIDE in Utrecht on 144.587
DIGIa*>APRS :!*****/3803.48N/08443.79W#WIDE
NODE*>APRS :!*****/3539.00N/08414.56W#Temporarily on 145.63
DIGIb*>APRS :!*****/3347.63N/08422.23W#WIDE-RELAY posit estimated
K6TAM-5*>APRS :!*****/3706.35N/12150.61W#PHG5830 145.01
WB6MFV-3*>APRS :!*****/3801.10N/12034.59W#PHG3525 145.01
KE6TCY*>APRS :!*****/3620.77N/12036.67W#PHG5930 145.01
WB6NFY-3*>APRS :!*****/3835.59N/12129.20W#PHG3330 145.01
KN6JS-3*>APRS :!*****/3953.54N/12139.90W#PHG5830 145.01
W6CX-3*>APRS :!*****/3748.57N/12203.41W#PHG7450 145.01
KD6INX-3*>APRS :!*****/3759.21N/12148.18W#unknown 145.01
N6YYK-3*>APRS :!*****/3907.45N/12103.50W#PHG5830 145.01
W6GRR-1*>APRS :!*****/3527.88N/11900.09W#unknown 145.01
KI6MP-10*>APRS :!*****/3235.28N/11650.44W#PHG5830 145.01
KB8PFF*>APRS :!*****/4103.48N/08338.70W#PHG7370/WIDE Findlay Area APRS Digi
KE4TCO-10*>APRS :!*****/3845.24N/08430.33W#PHG5270/WIDE-RELAY APRS DIGI BUTLER,"
N0BKB-1*>APRS :!*****/4040.00N/09443.00W#PHG5360/WIDE DIGI ONLY -BEDFORD, IO"
N0GGU-1*>APRS :!*****/4011.30N/09509.00W#PHG6350/WIDE APRS DIGI ONLY -WEST O
N9LEM*>APRS :!*****/4152.90N/08812.27W#PHG7230/WIDE (manual) m Digi Station
N9RER-15*>APRS :!*****/4153.04N/08738.01W#PHG5696/Wide Chicago area APRS Digi
WA9CJN-15*>APRS :!*****/4200.90N/08900.10W#PHG3260/WIDE-RELAY..KARC APRSWIDE D
WJ8T-2*>APRS :!*****/4258.10N/08539.50W#PHG5670/WIDE-RELAY ... Widefrom Dow
W1GTT-15*>APRS :!*****/4128.05N/07212.09W#PHG5680/WIDE-RELAY ...
W6TWK-3*>APRS :!*****/3814.95N/12202.04W#PHG4330 Fairfield 145.01
N4JOP-3*>APRS :!*****/3845.04N/12041.01W#PHG5830 Camino 145.01
KI6AG-6*>APRS :!*****/3730.50N/12122.26W#PHG9840 Mt. OSO 145.01
KD6KQ-3*>APRS :!*****/3414.30N/11713.96W#PHG5667 Lake Arrowhead .01
KA6SDH-2*>APRS :!*****/3646.00N/11946.00W#PHG3860 Fresno FAT-2 .01

```

The PCAPRS DIGIS.BK file re-formatted for MACAPRS

Use the Open file menu to read.
Try the Display Coverage circle with this data.

PS all APRS stations should put the PHG data in their beacon.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

456. Re: [APRSSIG:4040] Crashing 7.4

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>
Date: Fri, 27 Oct 1995 03:42:14 -0400
To: aprssig@tapr.org
Message-ID: <30908D56.7831@wingsbbs.com>
Rendered body type: text/plain

Demos Doulou wrote:

```

>
> APRS 7.4 keeps crashing while running in DOZ mode and Windows 95.
> 7.3d runs fine.
> Anyone else having this problem?
>
> See Ya
> Demos

```

No.. I never use the DOZ mode... I will try it... See if it crashes here..

Sam - WJ8T.

457. Re: [APRSSIG:4043] More Cows In Space updates please

APRS stations on the air.

I've re-adjusted my TNC to use 4800 baud with the computer in order to see if that helps improve stability any. (The jury is still out.)

The most serious problem I have at the moment is the program crashing -- almost always within an hour of my starting it up. Here's what I did last night before going to bed, and, as half-expected, it crashed probably about the time I did. :-)

Fire up APRS. Alt-S/Modes/DxClustr, space_bar to draw the map, then let 'er sit. But I think I've seen the problem other times too.

Before long, the screen looks like this and you're a gonner:

```
--- cut ---
Rng8192 Nmiles                At 0049 ToGo:B>9 P4m
***t 48 24.00N                Mode is set to DXclustr
LM,PM: 1      -1              Move cursor to your QTH with
a,I,J,K,fdx,LDx: 75  8  1  53  0  12  (shft)arrows, NumLok off and
X,Y,X1,Y1 108.9285 124.2188 108.9285 124.2188 (ctrl) PgDn. Then press I M
A$DB0EQ*>DG3IAP-1:> SCHULE...118 26.10.95 DL 352 365 CQ Schulstationen
c$
ESSIn MyCall:j= 16 and TL=0
OOOPS! ERR number 5 Hit ENTER to return to DOS?
```

[world map here]

```
DX de 0Z8Q:      1830.7 3V8BB      SSB      2344Zeeps
Bcn:DB0EQ      270049 n DL3NY - Theo
DB0EQ*>DG3IAP-1:> SCHULE...118 26.10.95 DL 352 365 CQ Schulstationen
--- cut --- (above screen typed in (copied) by hand) ---
```

Again, 438.3 MHz here is a very busy freq. (typ. 200 - 900+ % "Channel Load" according to APRS!), but I'm not sure if that's related. (How is the Channel Load calculated anyway?)

And some other problem reports/comments:

I often get the message "Comm-buffer-overflow" in the upper-right corner of the screen. I've seen this message not only when I sit "idle" (more than a few seconds) at a yellow-boxed program prompt too long, but also sometimes at program start-up (i.e., I took more than 3 to 5 seconds to answer the start-up questions for unregistered users???), and at other times too. This is not a fatal error, just a disconcerting one. ;-)

I've experienced other fatal errors too, but found that in many cases it was due to my own inexperience with the software (it takes a while to "learn" not to crash it -- ha!). For example, if I edit a maplist or map file under UNIX/Linux and forget to convert the line-endings to DOS-style, APRS will crash with a cryptic but fatal error (Err 11 I think), etc. Perhaps I will try to document these situations more in the interest that maybe someday we'll have fool-proof program.

How 'bout a file in the APRS distribution called BUGS.TXT or something, with descriptions of known bugs, known workarounds, or even common config/usage problems by newcomers?

Finally, though you might get a different impression from this rambling posting, I'd like to congratulate Bob and the other key people on their work. Bob has written a truly impressive program in what appears to be BASIC, and I realize that many limitations of the program are in fact limitations of the programming language. I admire Bob for taking the resources and knowledge that he has and forging ahead full speed. Thanks!

Vy 73,

--Shannon, DL6SEU (AKA N7APC)

On my way to becoming "hooked" on APRS, near Stuttgart, Germany. ;-)

459. Re: DFjunior

From: Bernie_Hunt@comverse.com
Date: Fri, 27 Oct 95 10:25:47 EST

To: aprssig@tapr.org, Bob Bruninga <bruninga@nadn.navy.mil>
Cc: fox-list@netcom.com
Message-ID: <9509278148.AA814814901@hub.comverse.com>
Rendered body type: text/plain

What is a DFjunior?

bernie
KE6CAV

Reply Separator

Subject: DFjunior
Author: Bob Bruninga <bruninga@nadn.navy.mil> at Internet
Date: 10/26/95 11:47 PM

I received the following message from Joe Agrello about their test run of their new DF unit which will be APRS compatible...

From: JAgrello@aol.com

DFjr test results:

We did a breadboarded DFjr. feild test this weekend, WOW!! it was awsom. We put together a nice little package with a HPVFC (800 milliwatt version of the VFC400) and a Micro-1.4 (voice recorder) for ID, attached it to a car and let them drive away 16 miles to an unknown location. As we proceeded to obey the intellegent DFjr's display, it ignored multi-path all the way, just like it was suppose to, we just followed the LED's and within 20 minutes we passed the street where the fox was, the LED's swung around the display as we passed the street, time to turn around, then we turned down the street like DFjr directed us to and the same thing happened as we passed the house, BINGO! there it was parked in the back of the house. Total execution time was 22 minutes.

Conclusion: the DFjr displayed no mercy.

73 de Joe N200C

Forwarded by WB4APR

460. DIGIS.TXT

From: Larry Griffin <largriff@onramp.net>
Date: Fri, 27 Oct 1995 09:34:48 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAA44F.7D9999E0@lub14.onramp.net>
Rendered body type: text/plain

The following Texas digis should be added to the list:

WASTBB-2*>APRS :!*****/3328.41N/10147.35WxPHG9560/WIDE-RELAY-LBB01 Lubbock TX
AB5GE-2*>APRS :!*****/3303.48N/10026.25WxPHG9660/WIDE-RELAY-DBL01 Dbl Mtn TX
AB5GE-3*>APRS :!*****/3242.88N/10158.48WxPHG7560/WIDE-RELAY-LMSA01 Lamesa TX

Larry AB5GE

461. Re: [APRSSIG:4041] Re: APRS74 with MOUSE!

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 27 Oct 1995 10:52:55 +0000
To: aprssig@tapr.org
Message-ID: <199510271448.KAA26357@hemisphere.neocomm.net>
Rendered body type: text/plain

Phil Stated

I have a 512K HP95LX palmtop. By minimizing the RAM disk, the largest RAM memory is 330K. I have thought about running portable APRS on it (expecting that I won't get much of a map with the simulated EGA screen, half displayed at a time).

I too have an HP95LX that I hope to run APRS on in the future. I read (on the sig) that someone had succesfully done this. I also have a couple of PC-JR's with 640 base mem and 360 floppy no HD. I will try to make ramdisk large enough to squeez in APRS. PC gurus can I use the append comand here, so I can use ramdisk and floppy together ? Perhaps there is an old version of APRS that will fit on a 360 k floppy ? Or meet the 330 k requirment for Phils HP95.

Charles

cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
WB4PAN@WB4Q0J.VA.USA.NOAM

462. More DFjr info

From: JAgrelo@aol.com
Date: Fri, 27 Oct 1995 11:02:49 -0400
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <951027110248_91054803@emout04.mail.aol.com>
Rendered body type: text/plain

To All,

The DFjr is a very intelligent microprocessor based Doppler. The DFjr is the reward of two years of dedicated hard work. When we first began this project in 1993 we realized that there wasn't much improvement to be had in Doppler technology, because of multi-path, and the LED displays swinging all over the place. There was a big learning curve and far from plug-n-play for anyone.

So what if we added a powerful microprocessor that realized a multi-path signal, and took samples of the incoming signals and only lit a LED that corresponded to the best sample, hmmm. Well, that's what we did. Since we have the microprocessor we thought "let's take full advantage" and did. The DFjr has three pushbuttons on the faceplate MENU, SUB/-, and ENTER/+, in these menus we have the ability to set the sample rate, output baud rate (1200,2400,4800,9600), calibrate, data/out format (APRS/NMEA style including the bearing and quality factor, Raw Continuous Bearings only), etc...and store these settings in a EEPROM. The RS-232 output is via a modular-6 type connector including a modular phone type cable and modular to DB-9 adapter (like the PicoPacket).

The DFjr runs off a vehicles 13.8 volt DC supply. Size is 4-1/2" x 2-3/4" x 1". Includes four magnet antenna's with wips for 2 meters, 220 and 440 (custom made). 3 different antenna switching units will be offered as a plug in module (PCB), due to component value changes for different receiving bands (no other way around this). All cables, connectors, antennas w/wips, and choice of 1 switching module, for a price somewhere in the range between \$199.95-\$249.95, still need to tally up the costs.

Since I know everyone is just as anxious as I, the scheduled availability for production runs will be around Christmas (just in time for MacAPRS for Windoz), and the first 10 beta test units sooner, sorry the 10 beta's are already promissed to:

- 1) ME-Mobile (N200C)
- 2) Joe Moell (K00V)
- 3) George Chapek (N2AIG)
- 4) Robert Swain (N7LUE)
- 5) Ed Rogers (N9LCI)
- 6) Keith Sproul (WU2Z)
- 7) Mark Sproul (KB2ICI)
- 8) SARA (K2AE)
- 9) ME-Home (N200C)
- 10) Agrelo Engineering

So don't ask.

To see pictures and stuff, check us out on the web at:
<http://home.navisoft.com/agrelo/ae.htm>
Please be patient this page is under currently construction.

Thanks to all with interest and support.

Plug-n-play all the way.
73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com

In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler

and

talking products

Experts in Microchip and Motorola processors

463. Agrelo page

From: JAgrelo@aol.com
Date: Fri, 27 Oct 1995 13:11:31 -0400
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <951027131131_56035110@mail06.mail.aol.com>
Rendered body type: text/plain

To all,

The Agrelo page will have lots more to see tonight plus weekly updates.

<http://home.navisoft.com/agrelo/ae.htm>

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058

E-mail- jagrelo@aol.com

In the Web <http://home.navisoft.com/agrelo/ae.htm>

Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products

Experts in Microchip and Motorola processors

464. Re: [APRSSIG:4028] Re: L O N G APRS hop!

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Fri, 27 Oct 1995 11:24:34 -0700
To: aprssig@tapr.org
Message-ID: <199510271824.LAA15484@ix.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>After reading more condition reports I am swaying more towards a fantastic
>opening. Seems that conditions were very good, but do remember nothing is
>failsafe when it comes to TNC parameters.

I can certainly verify that there was a big time band opening at VHF and above on 10/19,
10/20 and 10/23, and perhaps other days as well. I heard a lot of distant ham and
public safety systems on these days while working in the DC area, as well as Cape May,
NJ and Lewes, DE. It was actually driving me nuts, at the time I was trying to
field verify the suitability of some frequencies that we're planning for a police radio
system.

465. Re: [APRSSIG:4037] Re: Map14.zip

From: n2czf@gate.net
Date: Fri, 27 Oct 1995 18:48:20 -0400
To: aprssig@tapr.org
Message-ID: <199510272248.SAA42624@tequesta.gate.net>
Rendered body type: text/plain

I have noticed a few messages on the sig about the file that was uploaded and
wanted to make my comment... Back off a bit, it was a mistake! Someone new to
the sig system was doing someone else a favor and uploading a file intended for
me personally, the program IS/WAS NOT intended for general distribution.

I have seen countless times personal messages intended for one specific person
go out to the whole sig, this is what happened in this case but unfortunately
this message had a file attached.

The server places aprssig@tapr.org, not the senders address in the REPLY TO
SENDER choice, that leads to a lot of problems if someone is new or is rushing.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

466. RE: [APRSSIG:4051] More DFjr info

From: John Munsey <munseyj@enterprise.america.com>
Date: Fri, 27 Oct 95 19:39:42 EDT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.951027194345.munseyj@.america.com>
Rendered body type: text/plain

Hi Joe,

You don't know me but I want to congratulate you on improving the doppler.

I have used the Doppler Systems doppler for about 6 years now with very good results. There is not too much led swing but it is bothered by multipath... much worse on horz signals.

Yep, I know all 10 bata units are assigned... However, if one becomes available after or during the testing I would like to try it here in FL. I would put up a deposit equal to the unit cost for your protection.

Please let me know when they are available for purchase.

Thanks for your time.

John Munsey KB3GK
E-mail: munseyj@america.com
10/27/95 19:39:42

467. Re: [APRSSIG:4029] Re: APRS74 with MOUSE!

From: rcurry@ramlink.net
Date: Fri, 27 Oct 1995 23:36:02 -0400
To: aprssig@tapr.org
Message-ID: <199510280336.XAA27738@ram.ramlink.net>
Rendered body type: text/plain

hello Ralph,

We have the Balloon package working. It turned to be a hardware problem. The weather Saturday is going to be rotten for the launch. I am looking to launch Sunday if possible. I will let you know Saturday pm. 73, Ron, wa4gss

468. Re: [APRSSIG:4051] More DFjr info

From: bottmgun@emi.net
Date: Fri, 27 Oct 1995 23:58:26 -0400
To: aprssig@tapr.org
Message-ID: <199510280409.AAA02219@athens.emi.net>
Rendered body type: text/plain

Joe,

Some of use don't DF for fun, we're out looking for ELT/EPIRBs. The capability to work 121.5/121.6 MHz would be very valuable. At least give us the info/capability to build our own modules to track these signals. Otherwise it looks like you have done an outstanding job!

Respectfully,

Jay

>The DFjr runs off a vehicles 13.8 volt DC supply. Size is 4-1/2" x 2-3/4" x >1".Includes four magnet antenna's with wips for 2 meters, 220 and 440 (custom >made). 3 different antenna switching units will be offered as a plug in >module (PCB), due to component value changes for different receiving bands >(no other way around this).

=====0o====
I Capt. Jay K. Jeffries CAP Call Sign: Sparrow 930 o 0 I
I Deputy Commander/Operations Amateur Call Sign: KF4DBI o I
I Group 9, Florida Wing <bottmgun@emi.net> (_/_) I
I Civil Air Patrol <a028171t@bcfreenet.seflin.lib.fl.us> I
I http://www.geopages.com/TheTropics/1984 I
I I I
I ____(*)____ AIR - SEA - LAND SEARCH AND RESCUE I
=====

469. Watch for APRS mobiles in Hawaii

From: DDOBBINS@aol.com
Date: Sat, 28 Oct 1995 01:19:08 -0400
To: APRSSIG@tapr.org
Message-ID: <951028011907_91648998@emout06.mail.aol.com>
Rendered body type: text/plain

Aloha de Dave/WH6YC. I'm excited to report that we now have two APRS GPS standalone trackers on the road here on Oahu, Hawaii. They are Mel/WH6UG, driving the Oahu Civil Defense mobile command post, and Lawrence/NH6NJ, in his personal vehicles. Both stations are using Trimble GPSs and KPC-3s with one minute position updates on VHF, and 10 minute position updates via the Oahu HF Gate. I'd appreciate the SIG watching out for position reports from either of these stations. We occasionally copy mainland mobiles and maritime mobiles via HF here in the Islands. That's it. And I'm not going back to the beach, since it's dark here. That'll have to wait for tomorrow. Aloha y'all.

470. Re: [APRSSIG:4044] DIGS formatted for MACAPRS

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Fri, 27 Oct 1995 21:18:20 -0600
To: aprssig@tapr.org
Message-ID: <9510272118.AA20747@oscar.tbr.state.tn.us>
Rendered body type: text/plain

> UNKNWN*>APRS :!*****/3609.03N/08640.15W#PHG5360/WIDE/RELAY. FistFighters

Should be:

KF4AJ0*>APRS :!*****/3609.03N/08640.15W#PHG5360/WIDE/RELAY. FistFighters

The digi of Fistfighters United Nashville! (FUN!) Ham radio for fun.

471. W7LUS HF DIGI

From: Peter Gross <w7lus@internetMCI.COM>
Date: Sat, 28 Oct 1995 13:25:17 -0500
To: vhf/hf <aprssig@tapr.org>
Message-ID: <01HWZ4C80ZK291WHI0@MAIL-CLUSTER.PCY.MCI.NET>
Rendered body type: text/plain

-- [From: Peter Gross * EMC.Ver #2.3] --

The w7lus hf digi will be in the tnc only mode, beginning the afternoon of Nov 3,1995.

I will be going back on the road again! Am going to be "trucking" hauling electronics to all the 48 states and Canada. I do plan to be Aprs mobile on vhf as soon as I have the chance to install my equipment. If all goes right I also should be hf mobile around the first of the year, if not sooner. I do not have a laptop at this time so I will be tnc/gps vhf at first. When I come up on hf I will have a laptop on line therefore will have my mailbox active and will be able to respond to your messages when my vehicle comes to a rest. Don't expect a long real time session while I am on the move. We'll see how easy the F2 message sequence will work driving an 18 wheeler, , hi!

I hope I might be of some service for the betterment of Aprs or for some sort of experimental purposes while back on the road.

I am unmarried and will only get home every 4-6 weeks or longer, so please stay with me - it can get lonely out there!

At least now I can solve my curiosity of what is west of Kansas City on Aprs. Perhaps I can encourage or promote more activity!

73 - Peter

73 - Peter

472. Beeps!

From: Peter Gross <w7lus@internetMCI.COM>
Date: Sat, 28 Oct 1995 13:25:35 -0500
To: vhf/hf <aprssig@tapr.org>
Message-ID: <01HWZ4CL7G3M91WHI3@MAIL-CLUSTER.PCY.MCI.NET>
Rendered body type: text/plain

-- [From: Peter Gross * EMC.Ver #2.3] --

Bob! I find that when "beeps" are active that every time there is a beep the screen momentarily does a clear screen. Similar problem as with the "A" screen as previously noted to you. Don't know if the following is related but while in the message screen and while composing a message I accidentally hit the up arrow and have received a momentary clear screen too!

73

473. Colorado Activity?

From: BenWS5R@aol.com
Date: Sat, 28 Oct 1995 13:44:38 -0400
To: aprssig@tapr.org
Message-ID: <951028134437_91875446@emout04.mail.aol.com>
Rendered body type: text/plain

I was just wondering if there is anyone running APRS in Colorado? If you are be sure to include wide in your path as there is a wide on 145.01 in NE NM on Seirra Grande. We also have a wide here in Amarillo TX. I regularly beacon posits ur direction on 01 but have yet to see anything from the N. See below for info on the above WIDES and we'll be looking for you in NW Texas.

73 Ben WS5R !3514.12N/10149.54W WS5R@kb5vvm

BenWS5R@aol.com

KK50B-2 !3644.20N/10352.36W#PHG5840/WIDE GRND01 Sierra Grande NM
N51M0-1 !3522.48N/10152.97W#PHG6550/WIDE AMA01 Amarillo TX

474. Activity in Nashville, TN

From: moyers@ibm.net
Date: Sat, 28 Oct 95 21:26:12 +0000
To: aprssig@tapr.org
Message-ID: <9510290431.AA0255@slip166-241-98.lig.us.ibm.net>
Rendered body type: text/plain

I am wondering if there is anyone on the SIG in the Nashville area running APRS. If so I am in need of getting some questions about the activity over there answered. Recently I spent several days in the area beaconing WIDE, WIDE and was tracked by several stations in East TN. I only saw one station on as stand-alone tracker and the the beacon for the DIGI. Question, is there any other APRS activity in Nashville that I missed???

73
John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

475. Re: [APRSSIG:4060] W7LUS HF DIGI

From: BenWS5R@aol.com
Date: Sat, 28 Oct 1995 21:56:54 -0400
To: aprssig@tapr.org
Message-ID: <951028215652_92124737@emout06.mail.aol.com>
Rendered body type: text/plain

What's west of KC on APRS? Not much until you get to CA, but were working on it.

Ben WS5R !3514.12N/10149.54W BenWS5R@aol.com

476. Re: [APRSSIG:4036] APRS 74!! Mouse at last!!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 29 Oct 1995 22:56:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951029225446.23590C-100000@greatlakes>
Rendered body type: text/plain

On Thu, 26 Oct 1995, Charles W. Davidson wrote:

> Hello I just downloaded a copy of APRS74, and the new "any" mouse support is
> great! Now I can play with the mapmakeing stuff like a real mouser.

DOES NOT YET WORK WITH MAPFIX.... Still only serial MS mouse there....

> ?????? When using the Pacomm as a stand alone tracker, the output is
> to; the unproto of GPS XXXXXX . I don't see a way to change this so my

READ DOCS... I donthave one either, but of course you can change it

> When an APRS station recieves a GPS position, it does not
> retransmite the data unless manually uplinked, is this correct ?

CORRECT.

477. Apology to the SIG

From: JAgrelo@aol.com
Date: Mon, 30 Oct 1995 09:14:10 -0500
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <951030091409_93079029@mail06.mail.aol.com>
Rendered body type: text/plain

Last Friday I was flooded with over 50 peices of mail when Bob Bruninga posted a message about the DFjr testing. So I made a general "to all" message and copied it to my clipboard so that I could paste to every request concerning the the DFjr. I must have accidentally pasted to a peice of mail that was addressed to the SIG, big oops!.

To all that are P'ed off at me, sorry, it wasn't intentional.

Joe Agrelo-N200C

478. Lessons learned mobile

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Oct 1995 10:16:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951030094123.28295A-100000@greatlakes>
Rendered body type: text/plain

Took APRS on 1500 mile round trip From Wash DC to Atlanta and here are some of my experiences...

1) Remember you can FILE-REPLAY the DIGIS.BK file to overlay the location of all known APRS digis on your map without losing your current P and L lists. This was useful for checking the road ahead for possible digis. I FINALLY received info on the FLORIDA WDIES to add to the DIGIS.BK file but I think that there are lots more areas that have not provided us an update. NO EGO-PEATERS PLEASE.. Only PERMANENT WIDES!

2) I pre-loaded several messages to MSG so that I could reply to incoming messages using the F2 REPLY command and the new feature where using a single numeral key for a message, will copy one of the existing messages. This way I could chat with folks with at most 4 single key strokes... I saved a BACKUP file called M.BK, so that I could FILES-LOAD these messages each time I started up the PC by pressing just F-L-M. LEARNED: In later versions, I will make it so that an ERASE command will not erase the MSG messages until all ACKED messages have first been erased.

3) I preloaded WIDE,WIDE and RELAY,WIDE,WIDE paths under the path names of WW and RW so that I could rapidly re-configure my unproto path using O-D-WW or O-D-RW depending what kind of WIDE digi I was near...

4) THE APRS DISPLAY was adjusted so that it was CLEARLY visibile from the back seat. KIDS (ages 6 and 8) checked the display frequently, and instead of asking, "ARE WE THERE YET?" or "HOW LONG IS IT NOW DADDY?", they would only ask "Show ATLANTA" or "SHOW US WASHINGTON".

5) Since there was only ONE digi we found in 600 miles from DC to Atlanta, APRS was primarily used as just a progress and navigation aid. It performed well BUT:
LESSON: In the next version, I will let F3 and F4 be used to display MORE or FEWER labels. In my maps, I have always MINIMIZED the number of labels so that they don't crowd CALLSIGNS. But in the BOONIES, where there are no HAMS, I would like to bring up the lables for display at a higher range scale. This should prove valuable.

5.5) Typically I operated at 32 and 64 mile ranges to see our navigational progress. Zooming smaller was of little value.. (for an outsider just passing through). More TRAVELRES INFO on maps would be valuable. Such as showing all EXITS with lots of FOOD selections.... Also, Marking such exits with EXIT numbers...

6) INTERSTATES: It was nice to use MAPS-FEATURES-ROADS to suppress all roads on my MONOCHROME LAPTOP so that only the INTERSTATES remained. This made it easy to follow the interstate through congested map areas.

7) It wasn't that I got into the CENTER of ATLANTA and all the way THROUGH DC, that I saw any DIGIS. Made me realize that we should concentrate on PUTTING A WIDE DIGI near all INTERSTATE APPROACHES to big cities. Of course my lash-up for this trip was only running 1 watt AND HAD PROBABLY 20 dB of DESENSE from the TNC and ZENITH LAPTOP.

8) My laptop does not have dedicated HOME, PAGE UP and DOWN keys. This requires a TWO-KEY process, to hold down the FN key and an ARROW key simultaneously. No good for driving.
LESSON: In the next version, I will add U, D and H to the MAPS menu. So if you need to page-up, down, or HOME, all you do is hit M-U, M-D, or M-H. This will allow SINGLE KEY OPERATIONS... Actually, it won't be H because it is already used, but will be G for HOME, since usually this is used in conjunction with the GO command already. So it will become G-M-G to re-center the map on your CAR...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

479. Re: [APRSSIG:4064] Re: W7LUS HF DIGI

From: dwetzel@acs.uswest.com
Date: Mon, 30 Oct 1995 09:19:22 -0600
To: aprssig@tapr.org
Message-ID: <094e4770@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

What's west of KC on APRS? Not much until you get to CA, but were working on it.

Ben W55R !3514.12N/10149.54W BenW55R@aol.com

Salt Lake City has APRS on 145.15 and 145.05 at the moment, with 145.15 being the more active. Unfortunately, we also share this freq with a very active TCP/IP gateway, so we are trying to get 145.79 coordinated as a permanent home. There are a number of RELAYS on both .15 and .05, so if you get with about 50 miles of SLC, you should start seeing the fixed station posits.

We have two standalone trackers who operate in the area, N7Y0Q and KB7DD who is just getting his mobile operational.

KB7DD and I have been working on a semi-permanent GATE to 30m (some of you may have seen it this weekend), and are making good progress.

If you hit the right week, KF7TA is a wide area digi on Farnsworth Peak at 9500 feet on 5.15. Dan is a transmitter engineer for a local tv station and does a week long sting up on the mountain every other week. We expect that to be our permanent WIDE location as soon as we get the equipment rounded up.

I guess I'm the closest thing to the APRS coordinator in SLC, although not officially empowered!

Bon Voyage!

73
Doug Wetzel
KC7CO
dwetzel@acs.uswest.com

480. APRS on TV!!!

From: Pat Bunsold <pbunsol@cati.csufresno.edu>
Date: Mon, 30 Oct 1995 07:34:26 -0800
To: aprssig@tapr.org
Cc: wa2jrv@digital.net
Message-ID: <199510301534.HAA18438@CATI.CSUFresno.EDU>
Rendered body type: text/plain

At the Ham Radio Roundup yesterday at Missile Park, San Diego, Channel 10 TV news came out to film the event and they were very impressed by APRS and did a quick newspot on it. There was an excellent close up of the APRS screen

showing the San Diego map by Dave WH6YC! Many "APRS" signs were visible in the background. About 8 mobiles with the Trimble GPSs came and their trips to the Roundup were shown on the screen. There has been great interest in the Trimble Mushroom GPSs and I'm not sure how many are left. Chuck WB6IGP is the source. Sorry, don't have his phone number but he is OK in the Callbook. Chuck writes the column about Microwaves for 73 Magazine "Above and Beyond". Several Hundred Hams were in attendance to the Roundup and I gave out almost 50 copies of the APRS73D and the new CaMaps, so we should see a further explosion in APRS Activity soon! Also impressed by APRS was Assemblywoman Denise Duscheny, who was told of all it's emergency uses. We showed her a portable GPS/TNC/HT unit that could be backpacked to rescue sites. APRS was truly the highlight of this big HAM event and everyone had a great time. Special Thanks to SBRU (South Bay Repeater Users) club for the APRS Demo and the great WIDE on Mt Otay. 73
Pat Bunsold WA6MHZ
ARRL San Diego Section Manager

481. Re: [APRSSIG:4066] Apology to the SIG

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 30 Oct 1995 09:57:20 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199510301557.JAA12776@solar.cs.tamu.edu>
Rendered body type: text/plain

In point of fact, I really appreciated seeing the info. Looks like a neat piece of work and I'm looking forward to laying hands on a DFjr. Actually I wish I could have helped Beta the sucker!

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

482. DFjr beta list

From: JAgrelo@aol.com
Date: Mon, 30 Oct 1995 11:08:59 -0500
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <951030110858_93170181@emout05.mail.aol.com>
Rendered body type: text/plain

Looks like I accidentally left Bob Bruninga off the beta list, sorry Bob.

HERE IT IS-

- 1) Bob Bruninga (WB4APR)
- 2) Joe Moell (K0OV)
- 3) George Chapek (N2AIG)
- 4) Robert Swain (N7LUE)
- 5) Ed Rogers (N9LCI)
- 6) Keith Sproul (WU2Z)
- 7) Mark Sproul (KB2ICI)
- 8) ME-Mobile (N200C)
- 9) ME-Home (N200C)
- 10)Agrelo Engineering

The beta units will be the real thing, the only reason they are beta's is because of the software.

Q.Hypo question 1: Ignore multi-path! how'd they do that?.
A.2 years of microprocessor code.

Q.Hypo question 2: That.. doesn't.. tell me.. anything...
A.Exactly.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com

In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products

Experts in Microchip and Motorola processors

483. Re: [APRSSIG:4070] Re: Apology to the SIG

From: JAgrelo@aol.com
Date: Mon, 30 Oct 1995 11:19:02 -0500
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <951030111855_93177721@mail04.mail.aol.com>
Rendered body type: text/plain

Gerry,

Beta unit's are limited to a quantity of 10 because of the cost. In low volume these unit's are worth about \$800 each, and are given to people who have had or will have a direct impact or influence in the design of the DFjr. In appreciation, they will get to keep the units with the latest software, of course.

Thanks for the interest.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com

In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products

Experts in Microchip and Motorola processors

484. Garmin 45 on Sale

From: "Cardwell H Smith" <Cardwell.H.Smith@SAS02.usace.army.mil>
Date: 30 Oct 1995 16:39:17 Z
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested) (Receipt notification requested)
Message-ID: <030933094FFB5002*/c=us/admd=attmail/prmd=gov+usace/o=SAS02/ou=CESAS-EN-GG/s=Smith/g=Cardwell/i=H/@MHS>
Rendered body type: text/plain

Hello All-

Just got an Overstock sale flyer from Skipper Marine Electronics
(1-800-SKIPPER) that has the Garmin 45 on sale for \$249.00.! Don't
know about you, but that's the cheapest I've ever seen it!

73's
Card - N4F0R

485. Problems/Comments from a new kid

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Oct 1995 12:10:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951030102344.28295B-100000@greatlakes>
Rendered body type: text/plain

On Fri, 27 Oct 1995, Shannon Miller wrote:

> I'm monitoring off the air is 1200-baud packet on 438.3 MHz (extremely
> busy channel here in the Stuttgart area). I like that freq. while playing

APR COMMENT: APRS was not designed to parse all possible garbage on frequency. If you monitor a BUSY, NON APRS channel, expect crashes, as APRS tries to pull out POSIT data from packets. I could check every possible character and value, but that would significantly SLOW DOWN APRS.. TO SOLVE THIS PROBLEM ON A SHARED CHANNEL, use the BUD LIST in your TNC to filter out all packets from BBS's and NODES...

> Fire up APRS. Alt-S/Modes/DxClustr, space_bar to draw the map, then let

APR REPLY: MONITORING A RANDOM CHANNEL IN DX MODE IS PROBABLY LESS VALUABLE THAN NORMAL MODE. DX MODE IS ONLY LOOKING FOR DX CLUSTER FORMATS

> > Before long, the screen looks like this and you're a gonner: >
> --- cut ---
> A\$DB0EQ*>DG3IAP-1:> SCHULE...118 26.10.95 DL 352 365 CQ Schulstationen

```

> c$
> ES$In MyCall:j= 16 and TL=0
> 000PS! ERR number 5 Hit ENTER to return to DOS?
> --- cut --- (above screen typed in (copied) by hand) ---

APR REPLY: THANKS! I know that took some effort. When APRS crashes
from an ON-AIR packet, all I need is the A$, c$ and ES$ strings and the
bottom line (25th).. Here it looks like that packet from DB0EQ crashed
APRS... But I dont see why... HUMmh...
>
> I often get the message "Comm-buffer-overflow" in the upper-right corner
REPLY: You will always see that wwhen packets are comming in faster
than APRS can parse them...

>
> How 'bout a file in the APRS distribution called BUGS.TXT or something,
> with descriptions of known bugs, known workarounds, or even common config/
REPLY: Try TROUBLE.TXT

```

486. LORAN for Sale

```

From: calldrin@sierra.net (Chuck Alldrin)
Date: Mon, 30 Oct 1995 09:23:52 -0800
To: aprssig@tapr.org
Message-ID: <199510301723.AA27045@diamond.sierra.net>
Rendered body type: text/plain

```

Loran for sale:

Thanks for reading..I have a portable Loran unit
model # PL-99 for sale..It has a data port built
in for supplying location information to the APRS
mode of packet..Recharging unit, data connector,
telescoping antenna, D.C. cord and an external
antenna coupler and mount with cable.
Works great and in mint condx..
Manufactured by Ray Jefferson..Mobil mount included..
Selling for \$100 first confirmed caller..Call at
916-895-1509 ..Manual also included..
Thanks again and 73..Don--N6UMN..Chico, CA...>>>

487. FOUR DIGI ALIASES

```

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Oct 1995 12:32:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951030121056.28295U-100000@greatlakes>
Rendered body type: text/plain

```

Now that the PICO-TNC from PacComm supports 4 aliases, we need to figure
out how to use these intelligently. Here is a suggestion for a LINEAR
string of digis, so that packets go out BOTH directions 4 hops without
DUPES. This is only an example, and should be considered as an academic
chanllenge for those of you with network topology knowledge. Each of
these columns represents a DIGIPEATER and its 4 aliases (single letters
for now, and W and R = WIDE and RELAY). I put dots in the far away digi
aliases, so you could better see the propogation of the R,W,A,4 path to
the left and the R,W,B,3 to the right... SOmeone needs to figure this
out for 2 dimensions...

DIGIS:

ALIAS 4:	.	.	.	4	5	6	1	2	3	4	5	6	1	2	3
ALIAS 3:	.	.	.	.	A	B	C	D	A	B	C	D	A	B	.
ALIAS 2:	.	.	.	.	.	W	W	W	W	W	W	W	W	.	.
ALIAS 1:	.	.	.	.	.	.	R	R	R	R	R	R	.	.	.

UNPROTO PATHS:

unproto paths used by users in	R	R	R	R	R	R
the vicinity of each of these	W	W	W	W	W	W
digis so that packets go	A	B	C	D	A	B
out symetrically in both	4	5	6	1	2	3
directions.						

PROBLEMS:

- 1) How do you figure out symetrical patterns in 2 dimensions?
- 2) It doesnt help mobiles beyond the current R,W,W since the
input path is different at each digipeater...
- 3) With the current ALT-PATH capability in 73d and later, maybe forcing
symetry is NOT necessary.
- 4) Currently you put WIDE-RELAY in your BText... Is there room for 4?
- 5) This could get out of hand!

From: JAgrelo@aol.com
Date: Mon, 30 Oct 1995 13:14:14 -0500
To: aprssig@tapr.org
Message-ID: <951030131414_93270468@mail06.mail.aol.com>
Rendered body type: text/plain

Some of these test will be done by local CAP, APRS, NOAA groups. Thanks for offering.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
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E-mail- jagrelo@aol.com
In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors

492. APRS Street Maps!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Oct 1995 13:43:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951030132543.3591A-100000@greatlakes>
Rendered body type: text/plain

OK, Jack Cavanaugh has now released his MAKE-MAPS-HUNDRED-K program called MKMAPHK1.EXE. I have just posted it on TAPR.. as mkmaphk1.zip.

This zip file contains MKMAPHK1.EXE, BAS and TXT
plus a few sample maps of virginia that he made....

This program will allow you to build street level maps of anywhere in the USA from the USGS CD-ROM (11 different ROMS cover the USA).. Or probably from the INTERNET versions of the 100K maps that are available. Dan Reilly, W4NMK, in Black Mountain will probably tell us what we need to do use INTERNET files as input files for this program.

HOPEFULLY THIS IS A LESS PAINFUL METHOD. ALL YOU DO IS:

- 1) get the raw USGS files into a working directory on your HARD disk
- 2) Tell MKMAPHK1 the LAT/LON of the map center and the map size...
- 3) Come back in an hour (or less depending on your PC) and see what you got...
- 4) If it is a mess, do it again with a smaller map radius...

DISCLAIMER: I have NOT tried this, but his maps DO WORK... Do NOT ask me how to do it, hi hi, READ MKMAPHK1.TXT. and MAPS-CD.txt for some of the history that got us to this point. (MAPS-CD.txt does not yet know about this MKMAPHK yet)

Using this program, I estimate that over 50,000 maps would need to be generated to cover the USA at street level detail... IF YOU NEED EM'FOR YOUR AREA, NOW YOU CAN DO EM!

I think someone who gets good at this should figure out the value of his time, and offer to make detail maps for those willing to pay... And JACK KB4XF Cavanaugh deserves a LOT of support. I asked if he wanted to make it SHAREWARE, but he did not want to be bothered with the envelopes. Lets see how valuable this tool is, and then decide how to compensate Jack for his 6 months of programming effort.....

PS, as soon as I finish this message, I will also post MKMAPHK1.ZIP on the ARN BBS 410 280-2503 for those who do not have FTP access...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

493. Re: [APRSSIG:4078] AEA PK-88 & TONE command

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Oct 1995 13:48:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951030134544.3591B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 30 Oct 1995, Steve Hillson wrote:

> I'm using my PK-88 with APRS 7.4, and when I start APRS, it sets my
> TONE to 2. The only problem is that my TONE needs to be set to 3
> (for equalization). I've tried putting TONE 3 in the INITAEA.TNC
> file, without result.

APR REPLY: As you can see, there is no TONE command in the INITAEA.TNC file... so obviously some other command is being interpreted by your PK-88 as a TONE command. Look through the list of commands carefully and see if any of them cause the TONE command to change?

Such is the frustration of INITIALIZING TNC's when the manufacturers all use different comands... If you figure this out, lemme know...

494. Re: [APRSSIG:4071] DFjr beta list

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>
Date: Mon, 30 Oct 1995 17:08:06 -0500
To: aprssig@tapr.org
Message-ID: <30954CC6.79CC@wingsbbs.com>
Rendered body type: text/plain
[Empty message body]

495. CD MAPS

From: intercomm.net!wnolle (William Nolle)
Date: Mon, 30 Oct 1995 15:33:33
To: tapr.org!aprssig
Message-ID: <199510302216.QAA01279@sys1.tapr.org>
Rendered body type: text/plain

Well made a couple of street level maps using Jack KB4XF's new software and although there are a few bugs in it, it's almost as easy to make a street level map with this as with the 32 mile maps. Using a fast machine i whipped out a map of downtown Huntsville inside of 15 minutes. Like i say there are some bugs in the program. If you attempt to make the map to large it gave me an error and threw me back to dos. But in anycase if you have the CD-Rom there's no reason you won't be able to whip out those great street level maps. It's still hard to get them down to 3000 points tough Hi Bob. Sure wished that could be raised to at least 4000 points because it always seams like that's what it always comes out to hi. Anyway i want to say to Jack although he's not on internet (Great Job).

Bill KE4EER
wnolle@intercomm.net (Changing my address again soon).

496. Re: [APRSSIG:4030] Map14.zip

From: gregh@onramp.NET (Greg Higgins)
Date: Mon, 30 Oct 1995 15:39:56 -0600
To: aprssig@tapr.org
Message-ID: <199510302139.PAA17186@mailhost.onramp.net>
Rendered body type: text/plain

Hello!

Recieved the file this date and appreciate you sending it! Thanks!

>Attached to this note is the file map14.zip.Please reply upon receiving it.
> 73 SamContent-Type: APPLICATION/zip;
SizeOnDisk=122558; name="MAP14.ZIP"

>Content-Description: MAP14.ZIP

>

>Attachment Converted: C:\NETSCAPE\EUDORA\MAP14.ZIP

>

497. mkmaphk1 and internet-derived DLG files

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 30 Oct 1995 16:40:56 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9510301647.A17001-0100000@solar>
Rendered body type: text/plain

I've played with the files in question for a couple of hours this afternoon. I'll be posting UNBLOCK.ZIP to ftp.tapr.org later this evening. Using the unblock.bas program makes the files work appropriately.

1. Go find gzip on the internet somewhere. I will endeavor to place a copy of THAT out later on, if I can retrace it. It's needed to

uncompress the files from USGS.

2. FTP to edcftp.cr.usgs.gov (or go to <http://edcwww.cr.usgs.gov>) and grab the appropriate DLGs you need. Use the information in mkmaphk1.txt (distributed with the .zip Bob already put out) to determine which and how many files you'll need. This is significant, or you'll end up with hole sin your map.

3. Download the appropriate files in binary mode. Note that you WILL have to change the names when you download them. They're usually well past the 8+3 dos convention.

4. Use gzip to unCOMPRESS the files from the .gz format. That will leave the files in the form filename. with no .ext... In other words, the .gz file is history.

5. Use the quickbasic program unblock.bas to modify the file from free-form to 80 character per record blocked format. UNBLOCK will append an extension of .DLG to the filename to let you know it did its job, and it will place the blocked output file back in the source directory (where the raw DLG came from) preserving the filename as it was.

*** I use a directory off the APRS subdirectory called USGS where I download everything from the USGS, and where I place processed files. I periodically offload it to tape, since I really don't want to wait for FTP service on THIS network. I have a directory (\aprs\DLG) called DLG off the \aprs directory where I place the blocked DLGs for porcessing by MAPFIXxx and MKMAPHK1. I do a copy (copy \aprs\usgs*.dlg \aprs\DLG*) to get the files over there. At this point, mkmaphk1 operation is per the existing docs.

I then ran mkmaphk1 and fully qualified the pathname, although it didn't appear to really need that.

I have been REAL happy with the result so far. I've got a few more maps to generate and then we'll see how it all correlates with DGPS-corrected tracks here.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

498. RE: [APRSSIG:4077] Re: Garmin 45 on Sale

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Mon, 30 Oct 1995 17:01:06 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <951030170106.20a06939@exame2.dseg.ti.com>
Rendered body type: text/plain

On Date: Mon, 30 Oct 1995 11:48:30 -0600, you wrote:

>From: "Cardwell H Smith" <Cardwell.H.Smith@SAS02.usace.army.mil>
>Date: Mon, 30 Oct 1995 11:48:30 -0600
>To: aprssig@tapr.org
>
> Hello-
> In may haste to get the message out about the sale on Garmin 45s
> before I went to lunch, I didn't catch the fine print indicating the
> units were "slightly scratched, but new with full Mfr. warranty". I
> don't know, maybe they're repaired units...still may be worth a call
> to find out...anyway sorry for not getting the full story!
>
> 73s
> Card N4FOR

It might be worth checking the version of the software for these units. When I got my GPS-45 about three months ago, I saw units with several different software versions. I picked the latest one I could find, version 2.40.

Software version is shown on the login and logout screens, but you have to look quickly - the screens don't stay there long.

73 Claude
K5DTN

499. Re: [APRSSIG:4067] Lessons learned mobile

From: quarry@q.continuum.net (Chip Griffin)
Date: Mon, 30 Oct 1995 21:24:01 -0500
To: aprssig@tapr.org
Message-ID: <v01530500acbb33a5977e@[199.0.52.50]>
Rendered body type: text/plain

At 9:17 10/30/95, Bob Bruninga wrote:

> Took APRS on 1500 mile round trip From Wash DC to Atlanta and here
> are some of my experiences...

I took a round trip from SE CT to SE NH (HRO outlet) today. I too used a live-GPS setup for the trip so I will make comments in relation to yours.

> 1) Remember you can FILE-REPLAY the DIGIS.BK file to overlay the location
> of all known APRS digis on your map without losing your current P and L
> lists. This was useful for checking the road ahead for possible digis.
> I FINALLY received info on the FLORIDA WDIES to add to the DIGIS.BK file
> but I think that there are lots more areas that have not provided us an
> update. NO EGO-PEATERS PLEASE.. Only PERMANENT WIDES!

This would also be useful idea for exits and other features you might only want sometimes. These are the 'overlays' I have mentioned several times. It would be nice to be able to do it with map data as well as just point (station) data.

> 2) I pre-loaded several messages to MSG so that I could reply to
> incoming messages using the F2 REPLY command and the new feature where
> using a single numeral key for a message, will copy one of the existing

This could have been done with QuickKeys if I'd thought of it. But I wasn't expecting to talk to anyone on a weekday trip (I plan another to LI tomorrow).

> 3) I preloaded WIDE,WIDE and RELAY,WIDE,WIDE paths under the path names
> of WW and RW so that I could rapidly re-configure my unproto path using
> O-D-WW or O-D-RW depending what kind of WIDE digi I was near...

This would have been nice. Let me just say that there appears to be none (or certainly few) WIDES along the route I took (395-290-495-93). I very rarely heard anything (was listening to audio) and rarer still saw anything on the map. There did appear to be a BARC station which didn't seem to have a wide alias as it didn't digipeat my transmissions.

> 4) THE APRS DISPLAY was adjusted so that it was CLEARLY visibile from
> the back seat. KIDS (ages 6 and 8) checked the display frequently, and
> instead of asking. "ARE WE THERE YET?" or "HOW LONG IS IT NOW DADDY?",
> they would only ask "Show ATLANTA" or "SHOW US WASHINGTON".

I was pondering on that, not that I was worried about kids (who weren't with me). I think I will be constructing a platform to mount on the front seat to hold the laptop a little higher (and more secure from sudden stops/turns). I will also be constructing a 'curtain' to block out the sunlight, something across the dashboard back to the headrest with enough gap that I can peer under at the screen (the screen seems to be sensitive to light, it changes contrast depending on sunlight on matrix).

> 5) Since there was only ONE digi we found in 600 miles from DC to
> Atlanta, APRS was primarily used as just a progress and navigation aid.

I saw very few as well!

> 5.5) TYPically I operated at 32 and 64 mile ranges to see our
> navigational progress. Zooming smaller was of little value.. (for an
> outsider just passing through). More TRAVELRES INFO on maps would be
> valuable. Such as showing all EXITS with lots of FOOD selections....
> Also, Marking such exits with EXIT numbers...

Overlays!!!

> 6) INTERSTATES: It was nice to use MAPS-FEATURES-ROADS to suppress all
> roads on my MONOCHROME LAPTOP so that only the INTERSTATES remained.
> This made it easy to follow the interstate through congested map areas.

Wish I could have done that with MacAPRS ...

> 7) It wasnt that I got into the CENTER of ATLANTA and all the way

> THROUGH DC, that I saw any DIGIS. Made me realize that we should
 > concentrate on PUTTING A WIDE DIGI near all INTERSTATE APPROACHES to big
 > cities. Of course my lash-up for this trip was only running 1 watt AND
 > HAD PROBABLY 20 dB of DESENSE from the TNC and ZENITH LAPTOP.

Just need to get some at all in the Northeast! Seem to be plenty to the south, but never seen any north/northeast of us here in CT (at least no wides on 145.790).

> 8) My laptop does not have dedicated HOME, PAGE UP and DOWN keys. This
 > requires a TWO-KEY process, to hold down the FN key and an ARROW key
 > simultaneously. No good for driving.
 > LESSON: In the next version, I will add U, D and H to the MAPS menu. So
 > if you need to page-up, down, or HOME, all you do is hit M-U, M-D, or M-H.
 > This will allow SINGLE KEY OPERATIONS... Actually, it wont be H because
 > it is already used, but will be G for HOME, since usually this is used in
 > conjunction with the GO command already. So it will become G-M-G to
 > re-center the map on your CAR...

I think I would like something like this on the Mac as well. It would be nice for such occasions to have the ability to do manipulations without fiddling with the mouse/keys. It was EXTREMELY difficult to manipulate the map (ie zoom) because it requires both a mouse action and a key press (option click/drag)! It would be nice to move it with arrows and zoom a set amount via a keypress. It would also be nice to either (a) have an option for constant centering on your position (which is presumably moving) or (b) have a command (ie keypress) for centering the map to your current position. Also it would be nice if those menu commands for zooming/unzooming worked (then I could setup a QuickKey for them). And while I'm at it, it would be nice to be able to switch more easily from one map to another when you go off the edge ... perhaps a command to seek out the smallest scale map you will fit within.

Just some ideas. I will tell more after my trip from Norwich CT to Valley Stream NY tomorrow.

Chip Griffin - President of Thames River Apple Users Group
 System Operator of The Quarry (860-889-6427)

```
-----+-----
quarry@q.continuum.net | N1MIE@nlokk.ct (packet)
griffge@nu.com         | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com         |
```

<http://q.continuum.net/~quarry/>

500. Re: [APRSSIG:4088] Re: Lessons learned mobile

From: n2czf@gate.net
 Date: Mon, 30 Oct 1995 22:16:47 -0500
 To: aprssig@tapr.org
 Message-ID: <199510310316.WAA50192@tequesta.gate.net>
 Rendered body type: text/plain

Well here is my 2 cents worth as far as activity farther to the south from Atlanta which Bob recently did. After my live APRS trip to NJ frm FL and back in September the only activity I saw south of Atlanta was a little bit in Jacksonville FL. No digi's popped up in the area but I am told that there is one serving Jacksonville since late August or so. A few stations did pop up but coverage to a 50W mobile with a mag mount (rental car) was almost ZERO. Farther South nothing was picked until I reached the Melbourne area (little farther South than that) and from there on in the APRS corridor was reached. Coverage continues to the Southernmost tip of the USA with some dead spots here and there for mobiles but probably 100% coverage for home stations in the populated areas along the coast, not much reason to give the Gators APRS coverage. Let's see, we now have GPS trackers on cows, anyone game to strap a waterproof version on the back of a Gator ???

It seems that most of the WIDE digi's have landed along I-95 and the FL Tpk since most of our populated areas are right next to these two intestates, we have been lucky. Digi's are located in Ft. Pierce, West Palm Beach, Boca Raton, Hollywood, Miami, Homestead, Marathon Key, and Big Pine/Key West. Seems that activity is picking up in the Orlando area and Daytona Beach is not too far behind, now the job of linking them to us to the South on VHF/UHF will be the big job! If digi's come up the the Daytona area in time for Bike Week in March of 96' I will consider taking a tracker along with me on the Harley. I have been told that a GATEWAY is somewhat in operation in that area so that may be interesting to post on HF for my 3-4 day stay.

I totally agree with the others and so does the Wife N2RHU we need more digi's or at least active stations along the intestates to make APRS worthwhile to drag

along on a long trip. The NJ-FL trip was VERY boring till we got to VA/MD or shall I say MD. VA APRS was very weak, even when we were in 2M Voice range of the Annapolis area repeaters. Entering in DE APRS was useable but weak again with packets along the NJ TPK here and there till we reached the Woodbridge area where the BROOKLYN NY!! digi picked us up and gave us positions from the rest of the state, MD/VA and CT. Boy when there is coverage it is great but at other times it is almost ZERO.

Would be good to have one other representative from all the other areas to fill us in on their network range on the sig.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

501. AEA PK-88/TONE 2

From: joe.garber@logon-philly.com
Date: Mon, 30 Oct 95 22:02:31
To: aprssig@tapr.org
Message-ID: <9510302202.A5361wk@logon-philly.com>
Rendered body type: text/plain

Ap> On Mon, 30 Oct 1995, Steve Hillson wrote:

> I'm using my PK-88 with APRS 7.4, and when I start APRS, it sets my
> TONE to 2. The only problem is that my TONE needs to be set to 3
> (for equalization). I've tried putting TONE 3 in the INITAEA.TNC
> file, without result.

Ap> APR REPLY: As you can see, there is no TONE command in the
Ap> INITAEA.TNC file... so obviously some other command is being
Ap> interpreted by your PK-88 as a TONE command. Look through the list of
Ap> commands carefully and see if any of them cause the TONE command to
Ap> change?

EUREKA STEVE! Thanks to your message, I've finally found out why I've had so much trouble in getting my outgoing packets to be heard by the rest of my local APRS network!!!

Bob, I am also using a PK-88 TNC and just verified that APRS (73d) is indeed changing the TONE parameter to 2. It MUST be at three for proper tones to go out at the right levels.

No other commands in my INITAEA.TNC are causing this. I verified this by eliminating all commands entirely from the file: Still occurs!

It HAS to be coming from APRS at some point. Oh, and I've confirmed that modifying INITAEA.TNC with a TONE 3 command has no effect.

Going into OPS-COMM-TNC and setting the TONE to 3 that way seems to correct the matter temporarily.

However, initializing the TNC from within APRS sets TONE back to 2.

Ap> Such is the frustration of INITIALIZING TNC's when the manufacturers
Ap> all use different commands...

Tell me about it! But it seems to be something else going on here underneath the "visible" configuration commands, Bob.

Regards,
Joe

Internet: joe.garber@logon-philly.com
Amateur Radio Packet Network: WB3IHY @ KE3CZ.#EPA.PA.USA.NOAM

P.S.: FOUND PART OF THE ANSWER! The command that is being sent is VHF ON or a subset of that command string. It is, as far as I can tell, UNDOCUMENTED in the PK-88 command set, but since the PK-88 commands are a subset of the PK-232's, it is probably a leftover of some sort.

In any case, when VHF is sent to a PK-88, it causes the TONE parameter to be set to 2, even if VHF has no parameters following it!

It is NOT coming from any of the "visible" TNC configuration files that can be modified from DOS.

502. RE [APRSSIG:4086] gzip

From: "Antanaitis - Margaret B." <marganta@umd5.umd.edu>
Date: Mon, 30 Oct 1995 23:49:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.OSF.3.91.951030234217.27391A-100000@marple.umd.edu>
Rendered body type: text/plain

gzip is available as gzip124.zip at:

ftp://oak.oakland.edu/simtel/msdos/compress/gzip124.zip

or

ftp://garbo.uwasa.fi/pc/unix/gzip124.zip

for MSDOS exe

or

ftp://mac.archive.umich.edu/mac/util/compression/macgzip0.3b2.sit.hqx

for Mac (not having a Mac, I did not verify this source)

503. Re: [APRSSIG:4034] Re: Map14.zip

From: alanwc7r@primenet.com (Alan Unangst)
Date: Mon, 30 Oct 1995 22:03:44 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199510310504.WAA27462@usr1.primenet.com>
Rendered body type: text/plain

I really like your programs...Thanks!

73,

Alan, WC7R

At 10:19 AM 10/26/95 -0500, Alan Unangst wrote:
>Received 10/26/95 @ 1509 hrs. utc....thanks, Alan, WC7R
>
>
>
>
>At 05:43 AM 10/26/95 -0500, Sam Fant Jr. wrote:
>>Hello!
>>Attached to this note is the file map14.zip.Please reply upon receiving it.
>>73 SamContent-Type: APPLICATION/zip;
>SizeOnDisk=122558; name="MAP14.ZIP"
>
>>Content-Description: MAP14.ZIP
>>
>>Attachment Converted: E:\WIN95\PRIMENET\MAP14.ZIP
>>
>
>

504. Registration

From: elekesa@cadvision.com
Date: Mon, 30 Oct 1995 23:47:00 -0700
To: aprssig@tapr.org
Message-ID: <9510310647.AA37994@huey.cadvision.com>
Rendered body type: text/plain

Hi my name is Aaron Elekes VE6FXR. I like your APRS software, and would like to register it. I am writing just to make sure that the price is still the same at \$24.00 US and \$14.00 US for the extras.

I have also heard that there is an APRS message (NEWS) area somewhere on the net. I would also like to subscribe to that, if you know what the address is?

I would like to keep in touch as I have GPS, APRS, Doppler and my laptop ready to go. All I need to do is register so I can try this out.

Thanks 73's
De Aaron Elekes
elekesa@cadvision.com

or
ve6fxr@amsat.org

505. Re: [APRSSIG:4088] Re: Lessons learned mobile

From: gerry@cs.tamu.edu (Gerry Creager)
Date: Tue, 31 Oct 95 09:13:06 EST
To: aprssig@tapr.org
Message-ID: <199510311422.IAA13483@cs.tamu.edu>
Rendered body type: text/plain

On Mon, 30 Oct 1995 20:45:45 -0600 you wrote:

>At 9:17 10/30/95, Bob Bruninga wrote:
>
>> Took APRS on 1500 mile round trip From Wash DC to Atlanta and here
>> are some of my experiences...
>
>I took a round trip from SE CT to SE NH (HRO outlet) today. I too used a
>live-GPS setup for the trip so I will make comments in relation to yours.
>> 4) THE APRS DISPLAY was adjusted so that it was CLEARLY visibile from
>> the back seat. KIDS (ages 6 and 8) checked the display frequently, and
>> instead of asking, "ARE WE THERE YET?" or "HOW LONG IS IT NOW DADDY?",
>> they would only ask "Show ATLANTA" or "SHOW US WASHINGTON".
>
>I was pondering on that, not that I was worried about kids (who weren't
>with me). I think I will be constructing a platform to mount on the front
>seat to hold the laptop a little higher (and more secure from sudden
>stops/turns). I will also be constructing a 'curtain' to block out the
>sunlight, something across the dashboard back to the headrest with enough
>gap that I can peer under at the screen (the screen seems to be sensitive
>to light, it changes contrast depending on sunlight on matrix).

Actually, heat. LCDs respond to thermal changes (remember the cute little thermometers you slapped
onthe kids' foreheads about 10 years ago?) but sunlight has enough energy to translate to heat easily!

>> 5.5) Typically I operated at 32 and 64 mile ranges to see our
>> navigational progress. Zooming smaller was of little value.. (for an
>> outsider just passing through). More TRAVELRES INFO on maps would be
>> valuable. Such as showing all EXITS with lots of FOOD selections....
>> Also, Marking such exits with EXIT numbers...

I usually find 16 mile scale best here in Texas. 'Course, I frequently take out on the backroads.

>Overlays!!!

Indeed!

73, gerry
--
Gerry Creager N5JXS SAREX Co-Investigator
n5jxs@tamu.edu
gerry@rsgis3.tamu.edu

506. DOZ & Mouse = !@#\$

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 31 Oct 1995 09:30:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951031092618.17924A-100000@greatlakes>
Rendered body type: text/plain

If you put APRS74 into F-10 DOZ mode and then bump the mouse,

You CRASH, error 5.

I assume this will happen even if you go to the background and then bump
the mouse?

I can fix. Any other probs with 74?

DE WB4APR in Annapolis MD. (Not
anywhere near Greatlakes)

507. PK-88 and TONE command

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 31 Oct 1995 09:39:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951031093441.17924B-100000@greatlakes>

Rendered body type: text/plain

Several users have reported that their PK-88 will not work with APRS, because during the init sequence, APRS turns their TONE command to the value of 2 when it should be 3.

APRS only sends two commands that are NOT in the INITAEA.TNC file. They are Hbaud and VHF. Apparently the VHF command is causing the PK-88 to shift the TONE parameter from 3 to 2.

Until this is resolved, you will have to use O-C-T to manually change your PK-88 tone command to 3. Is there anyone out there with a PK-88 that DOES NOT change its TONE from 2 to 3 when you give it the VHF command???

If so, what version of Pk-88 ROM are you using that does NOT experience this problem?

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

508. RE: [APRSSIG:4095] DOZ & Mouse = !@#\$

From: Larry Griffin <largriff@onramp.net>
Date: Tue, 31 Oct 1995 09:11:00 -0600
To: "'aprssid@tapr.org'" <aprssid@tapr.org>
Message-ID: <01BAA770.D588D480@lub01.onramp.net>
Rendered body type: text/plain

From: Bob Bruninga[SMTP:bruninga@nadn.navy.mil]
Sent: Tuesday, October 31, 1995 8:35 AM
To: aprssid@tapr.org
Subject: [APRSSIG:4095] DOZ & Mouse = !@#\$

If you put APRS74 into F-10 DOZ mode and then bump the mouse,

You CRASH, error 5.

I assume this will happen even if you go to the background and then bump the mouse?

=====

No, not necessarily.
I can USUALLY use the mouse with other applications while APRS74 is DOZing in another window, although APRS74 will OCCASIONALLY crash. Still haven't found a pattern to indicate why...

I LOVE using the mouse with APRS74! Whatever other problems it might have created - its still worth it, HI!

Larry

509. REGIONAL plan for 4 Aliases

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 31 Oct 1995 10:13:55 -0500 (EST)
To: aprssid@tapr.org
Message-ID: <Pine.SUN.3.91.951031095702.17924D-100000@greatlakes>
Rendered body type: text/plain

I submitted a proposal for using 4 aliases at digipeaters which had the advantage of symmetry in a linear system. Meaning at any single DIGI, you could choose a path which would go out 4 HOPS in BOTH directions, WITHOUT DUPES, covering a total of 7 digis. Lets call mine the LINEAR SYMMETRICAL plan.

John Moyers suggests another approach to 4 aliases. Lets call his the REGIONAL APPROACH:

>
> S = State
> R = Relay
> W = Wide
> G = reGional
> C = Callsign
>
> By beaconing S,R,W ANYBODY FOREIGN to an area could get out 4 digi's
> with Minimum dupes. You can target any area by using any of these:
> C,G,W,G
> C,C,S,G
> R,G,W,W
> C,S,W,G

> C,S,S,L

APR REPLY: This plan solves the problem of not knowing what digipeater CALL signs to use to hit an area, but I see disadvantages:

- 1) It is no different than using C,C,C,C which we do now, except that you dont have to know the exact call. But with APRS, you always know the calls by just looking at the map..
- 2) It only goes in one direction.

CONCLUSION: Unless I'm missing something, Its neat, but I see no real advantage. Sorry John... hi hi

510. Re: [APRSSIG:4095] DOZ & Mouse = !@# \$

From: Barry Leonard <jleonard@tbcnet.com>
Date: Tue, 31 Oct 1995 10:29:56 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.951031102509.32724B-100000@tbc2.tbcnet.com>
Rendered body type: text/plain

On Tue, 31 Oct 1995, Bob Bruninga wrote:

>
> I can fix. Any other probs with 74?
>
> DE WB4APR in Annapolis MD. (Not
> anywhere near Greatlakes)
>

Ok, either there's a bug, or I'm doing something wrong...
My alias is RELAY.
My Digi Path is WA9CJN-15,RELAY,RELAY
When I transmit, CJN responds, but then my RELAY xmits. I thot my station was supposed to ignore ALIASes xmitted from my station that are the same as mine. Hence, my station xmits at the 1st RELAY from CJN, and that collides with any other RELAYs out there. Am I doing something wrong?

511. July 87 Ham Radio Mag Article

From: birksd@cadvision.com (David R. Birks)
Date: Tue, 31 Oct 1995 10:11:22 -0700
To: aprssig@tapr.org
Message-ID: <9510311711.AA46906@huey.cadvision.com>
Rendered body type: text/plain

>Does anybody in this group know where I might be able to locate a copy of an article in the July 87 Ham Radio Magazine pertaining to modifications to the Dick Smith Doppler Kit?

The local library only has QST and nobody seems to have heard of any of the other magazines.

Thanks.

73 de Dave VE6MJR
>
>
>

512. Garmin 55/AEA HSP Adaptor Cable

From: birksd@cadvision.com (David R. Birks)
Date: Tue, 31 Oct 1995 10:15:02 -0700
To: aprssig@tapr.org
Message-ID: <9510311715.AA50850@huey.cadvision.com>
Rendered body type: text/plain

I am having trouble getting the above combination to work with either my Kantronics KPC-3 or my KPC-9612. Are there any modifications to make to the AEA HSP Adaptor Cable to get the required voltage swings on the GPS data line.

I am reluctant to do any 'surgery' on this unit until I know for sure what is required.

73 de Dave VE6MJR

513. Re: [APRSSIG:4095] DOZ & Mouse = !@# \$

From: alanwc7r@primenet.com (Alan Unangst)
Date: Tue, 31 Oct 1995 11:04:03 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199510311804.LAA17805@usr2.primenet.com>
Rendered body type: text/plain

Bob, 7.4 is working beautifully on both my laptop and pc. on the pc it runs well under windowz 3.11 and windows 95 so looks good to me. f/b on the mouse problem. I had not noticed it. 73 and thanks for all your effort on this fine program....alan, WC7R.

At 08:34 AM 10/31/95 -0600, Bob Bruninga wrote:
>If you put APRS74 into F-10 DOZ mode and then bump the mouse,
>
>You CRASH, error 5.
>
>I assume this will happen even if you go to the background and then bump
>the mouse?
>
>I can fix. Any other probs with 74?
>
>DE WB4APR in Annapolis MD. (Not
>anywhere near Greatlakes)
>
>

514. Re: [APRSSIG:4095] DOZ & Mouse = !@#\$\$

From: dwetzel@acs.uswest.com
Date: Tue, 31 Oct 1995 12:57:45 -0600
To: aprssig@tapr.org
Message-ID: <09668f30@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

If you put APRS74 into F-10 DOZ mode and then bump the mouse,

You CRASH, error 5.

I assume this will happen even if you go to the background and then bump the mouse?

I can fix. Any other probs with 74?

DE WB4APR in Annapolis MD. (Not
anywhere near Greatlakes)

I'm probably doing something entirely stupid, Bob, but in trying to help one of the fellows here get a pk232 running correctly, I've noticed that switching bands with the o b vhf/hf command string doesn't do two very important things in my pk232 - set VHF and HBAUD correctly. That is, if I'm on vhf and try to go to hf, I have to do o c tnc and manually change VHF to OFF and HBAUD from 1200 to 300 - and vice versa.

Has anyone else seen this? I've also noticed that when you initialize the pk232 from Alt -S, it sets AX25V2L2 to "OFF", meaning it changes to AX25 version 1. Is this correct?

Doug Wetzel
KC7CO

515. APRSdr.exe

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 31 Oct 1995 14:24:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951031141008.24287A-100000@greatlakes>
Rendered body type: text/plain

I have just posted the APRSdr.ZIP file in tapr/SIG/aprssi/upload.

It contains APRSdr.exe and DR.txt. I did not preserve the directory so when you UNZIP it, the DR.txt will go into the APRS directory. Be sure to read this new one vice the one that is in version 74 distro.

APRSdr.exe can dead reckon objects along a MARATHON course or any route added to an APRS map in PURPLE. The objects make all the turns and only need to be given a reasonable SPEED to stay on track..

You will need to use your V# to save a CONFIG file under APRSdr before it will do the automatic path following mode. Then it will DR the first object marked for FOLLOWING on the P-LIST. To DR additional OBJECTs, you will also need to enter your DF/DR number...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

516. Re: [APRSSIG:4095] DOZ & Mouse = !@#\$

From: rwf@mindspring.com
Date: Tue, 31 Oct 1995 15:12:04 -0500
To: aprssig@tapr.org
Message-ID: <199510312012.PAA05562@dylan.mindspring.com>
Rendered body type: text/plain

I am still trying to prove the failure we experienced Saturday when using the logitech ballpoint mouse (I think that is what they call that little trackball thing you clip on the side of the laptop.) On two occasions, it crashed my machine Saturday durnin the APRS workshop here in Atlanta

Ralph

At 08:34 AM 10/31/95 -0600, you wrote:
>If you put APRS74 into F-10 DOZ mode and then bump the mouse,
>
>You CRASH, error 5.
>
>I assume this will happen even if you go to the background and then bump
>the mouse?
>
>I can fix. Any other probs with 74?
>
>DE WB4APR in Annapolis MD. (Not
>anywhere near Greatlakes)
>

517. Re: [APRSSIG:4101] Garmin 55/AEA HSP Adaptor Cable

From: "Hufford, Kent" <khufford@postmaster2.dot.gov>
Date: Tue, 31 Oct 95 15:21:56 EST
To: aprssig@tapr.org
Message-ID: <9509318151.AA815181654@postmaster2.dot.gov>
Rendered body type: text/plain

Dave, I've used a Garmin and a KPC-3 for about a year with NO problems until last month.

I have used the HSP cable on a Tosiba 1100+ and a Zenith Znote. Both worked great.

Last month I "turned" in th Znote and was issued a TI 4000M. The HSP cable did not work. Traced it down to the TI. IT doesnt put out the correct voltage to swing the HSP.

Someone said to open up the TI and feed one of the pins voltage so the HSP would work.... dont want to do that, since I dont want to pay for it...<g>

I think you can get a "new" HSP cable wired a little different, dont know how different...maybe others will chime in.

Kent KQ4KK (with a nice notebook, but no "working" APRS right now)

Reply Separator

Subject: [APRSSIG:4101] Garmin 55/AEA HSP Adaptor Cable
Author: aprssig@tapr.org at postmaster2
Date: 10/31/95 2:57 PM

I am having trouble getting the above combination to work with either my Kantronics KPC-3 or my KPC-9612. Are there any modifications to make to the AEA HSP Adaptor Cable to get the required voltage swings on the GPS data line.

I am reluctant to do any 'surgery' on this unit until I know for sure what is required.

518. Re: [APRSSIG:4103] Re: DOZ & Mouse = !@# \$

From: Keith OBrien <sfton@frog.thpl.lib.fl.us>
Date: Tue, 31 Oct 1995 15:23:42 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.90.951031150602.991A-100000@frog>
Rendered body type: text/plain

> I can fix. Any other probs with 74?
>
> DE WB4APR in Annapolis MD. (Not
> anywhere near Greatlakes)
>
> -----
>
> I'm probably doing something entirely stupid, Bob, but in trying to help one of
> the fellows here get a pk232 running correctly, I've noticed that switching
> bands with the o b vhf/hf command string doesn't do two very important things in
> my pk232 - set VHF and HBAUD correctly. That is, if I'm on vhf and try to go to
> hf, I have to do o c tnc and manually change VHF to OFF and HBAUD from 1200 to
> 300 - and vice versa.
>
> Has anyone else seen this? I've also notices that when you initialize the pk232
> from Alt -S, it sets AX25V2L2 to "OFF", meaning it changes to AX25 version 1.
> Is this correct?
>
> Doug Wetzel
> KC7CO
>
>
I too have a similar problem with my MFJ 1278, two port tnc. Maybe the answer is to have a VHF initialize file, as well as a HF file, read in to the TNC at boot up or when you do a band change command. That way the correct radio port as well as other parameters that have to be set, would be sent to the tnc. It would save having to go to the O-C-Tnc screen to change it... Keith N4ZQ

519. Re: [APRSSIG:4099] Re: DOZ & Mouse = !@# \$

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 31 Oct 1995 14:30:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951031142550.24287B-100000@greatlakes>
Rendered body type: text/plain

On Tue, 31 Oct 1995, Barry Leonard wrote:
>
> Ok, either there's a bug, or I'm doing something wrong...
> My alias is RELAY.
> My Digi Path is WA9CJN-15,RELAY,RELAY
> When I transmit, CJN responds, but then my RELAY xmits. I thot my
> station was supposed to ignore ALIASes xmitted from my station that are
> the same as mine.

APR REPLY: NO. Thats the problem with using RELAY anywhere BEYOND the first digipeater in the list. Only mobiles shuld use RELAY as their first digipeater...

520. pk-232 band switching

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 31 Oct 1995 14:47:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951031144449.24287D-100000@greatlakes>
Rendered body type: text/plain

On Tue, 31 Oct 1995 dwetzel@acs.uswest.com wrote:

> the fellows here get a pk232 running correctly, I've noticed that switching
> bands with the o b vhf/hf command string doesn't do two very important
> things in my pk232 - set VHF and HBAUD correctly.
APR REPLY: Are you sure that you told APRS that you are using an AEA? If so, APRS SHOULD send out those two commands.

>
> Has anyone else seen this? I've also notices that when you initialize the pk232
> from Alt -S, it sets AX25V2L2 to "OFF", meaning it changes to AX25 version 1.

> Is this correct?
APR REPLY: Yes, APRS uses AX25 version 1 which is more efficient for transferring single LINES of text.

521. Re: [APRSSIG:4106] Re: Garmin 55/AEA HSP Adaptor Cable

From: rwf <rwf@mindspring.com>
Date: Tue, 31 Oct 1995 17:43:56 -0500
To: aprssig@tapr.org
Message-ID: <199510312243.RAA12057@dylan.mindspring.com>
Rendered body type: text/plain

Ahh the same problem crops up again.

If it is a PACCOMM HSP cable, the cable is looking for power (around 6-12 volts or so) on PIN 6 of the laptop. Later cables had an orange wire connecting that PIN 6 to the one on the TNC plug. Fine, as long as the TNC has power there. Paccomm could not anticipate every laptop's different requirement.

I have "fixed" several of these for people. Here's how.

Use your meter and probe for voltage between pin 6 on the laptop's 9 pin connector and its ground pin (sorry- I can't remember the pin # for ground). Dollars to donuts, there is no voltage. Most thinkpads and compaq's and even the Winbook have this problem.

Look for power on pin 6 of the TNC's 9 pin connector. Same thing.

Now find some power on either device. The winbook had power on pin 7. DO NOT use power that may be seen on the TX or RX data lines.

On a Kantronics KPC 3, you can put a jumper inside and run power out on pin 25.

Anyway, once you find power, connect it to the part of the circuit that is currently connected to pin 6 of the laptop connector. You will probably want to detach the connection going towards the laptop (might not want to feed power in there)

If all else fails, a 9 volt battery will work, or possibly even 12 volts from somewhere (fused of course)

The object is just to power that transistor circuit that is currently to pin 6 for its source.

Of course: If you fry something, I take no responsibility.

Ralph

At 02:35 PM 10/31/95 -0600, you wrote:

> Dave, I've used a Garmin and a KPC-3 for about a year with NO
> problems until last month.
>
> I have used the HSP cable on a Tosiba 1100+ and a Zenith Znote. Both
> worked great.
>
> Last month I "turned" in th Znote and was issued a TI 4000M. The HSP
> cable did not work. Traced it down to the TI. IT doesnt put out the
> correct voltage to swing the HSP.
>
> Someone said to open up the TI and feed one of the pins voltage so the
> HSP would work.... dont want to do that, since I dont want to pay for
> it...<g>
>
> I think you can get a "new" HSP cable wired a little different, dont
> know how different...maybe others will chime in.
>
> Kent KQ4KK (with a nice notebook, but no "working" APRS right now)
>
>
> _____ Reply Separator

>Subject: [APRSSIG:4101] Garmin 55/AEA HSP Adaptor Cable
>Author: aprssig@tapr.org at postmaster2
>Date: 10/31/95 2:57 PM
>
>
>I am having trouble getting the above combination to work with either my
>Kantronics KPC-3 or my KPC-9612. Are there any modifications to make to
>the AEA HSP Adaptor Cable to get the required voltage swings on the GPS
>data line.
>
>I am reluctant to do any 'surgery' on this unit until I know for sure what
>is required.
>
>
>73 de Dave VE6MJR
>
>
>
>
>

522. Help with APRS and WIN95 pse..

From: n2czf@gate.net
Date: Tue, 31 Oct 1995 19:14:20 -0500
To: aprssig@tapr.org
Message-ID: <199511010014.TAA40809@tequesta.gate.net>
Rendered body type: text/plain

I have just upgraded to WIN95 here and am just starting to get the hang of it. The only benefit I have had so far is the hardware wizzard, it solved my commport and IRQ problems that I had on 3.1 with a serial mouse, internal modem and a 25pin serial port for the TNC. Now that I can run anything from here without needing to disable one of the devices I need some windows help from the more experienced 95' users. Currently APRS 7.3a runs in a full window without too much trouble. I did wake up this AM with a strange CONTINUOUS "BEEP" on the sidetone speaker, APRS did not crash but it did halt until I hit a key, then the tone ceased and everything was fine. A little later the tone appeared again and I let it scream for a while and then it stopped on it's own, APRS was still stopped but no tone. Hitting a key resumed normal program operations. I have not zeroed in on the cause yet, has anyone else??

Now excuse me but I am still 95' illiterate, how can I setup APRS (or any DOS pgm) in a window so I can switch between applications. It will probably be a few days till I get to the bookstore for a good 95' book. P.S. the book that comes with the upgrade for new PC's really STINKS!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

523. Error with MKMAPHK1.EXE

From: Thomas Griffin - x7792 <griff@SSD.intel.com>
Date: Tue, 31 Oct 1995 17:00:24 -0800 (PST)
To: aprssig@tapr.org
Cc: griff@SSD.intel.com (Thomas Griffin - x7792)
Message-ID: <9511010100.AA11163@bungee.SSD.intel.com>
Rendered body type: text/plain

I am not having much luck getting MKMAPHK1.EXE to work with the 100K USGS DLG files. When I run it I get the error:

Bad file name in No line number in module MKMAPHK1 at address 12CE:12B9

I FTP'd the files from the USGS, gunzip'ed them, unpacked them and made sure I only had *.dlg files in the directory. MKMAPHK1 runs for a while and is drawing on the screen when I get the above error.

I've tried the following:

- running in DOS, not a DOS window in Windows 3.1
- booting with a min. configuration (no drivers, no TSR, etc.)
- using different map radii (8.4, 2.1, 1.05)
- making sure the radius was entirely within the DLG data

I'm using the VANCOUVER, WA West data with a map center of 45,32.0 lat./122,50.0 long., and 2.1 nautical mile radius if anyone wants to reproduce my problem.

I can't use MKMAPHK1.BAS since I only have the qbasic that comes with DOS and can't use the /ah switch.

73, Thomas (Griff) Griffin, N7ZKL
Beaverton, Oregon, USA
Internet: n7zkl@amsat.org
Packet: n7zkl@k7iqi.or.usa.na

From: gphowell@soulcage.inmind.com (Geep Howell)
Date: Tue, 31 Oct 95 21:06:37 EST
To: aprssig@tapr.org
Message-ID: <199511010143.UAA04261@crucible.inmind.com>
Rendered body type: text/plain

Geep WA4RTS in Lynchburg VA where there IS a WIDE digi on 145.79 Mhz.

From: craig52@pacifex.com
Date: Tue, 31 Oct 95 16:35:44 EST
To: aprssig@tapr.org
Message-ID: <9510311635.D6867ip@pacifex.com>
Rendered body type: text/plain

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 31 Oct 1995 19:51:07 +1800 (CST)
To: aprssig@tapr.org
Message-ID: <199511010151.TAA07626@solar.cs.tamu.edu>
Rendered body type: text/plain

Page 1445

Does this mean that mobiles should always use RELAY as their first digi?

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (860-889-6427)

```
-----+-----  
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)  
griffge@nu.com         | Chip@1:320/301.0 or .1 (fido)  
emmet2@aol.com         |
```

<http://q.continuum.net/~quarry/>

528. APRS sizes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 31 Oct 1995 22:04:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951031215932.29646G-100000@greatlakes>
Rendered body type: text/plain

On Tue, 31 Oct 1995 craig52@pacifex.com wrote:

> Bob, just picked up the latest rev 7.3d at Pacificon. Was wondering how
> big the program is unpacked.....disk space at a premium and whether or

APR REPLY: APRS unzips to about 3 megs I guess when you include the MAP files for your region. Tonight I just finished APRSmin.exe which is a minimum version. It is 316K compared to 373K for APRS74.exe. This plus DOS only uses 495K on my PC versus the 553K needed for 74. I donno if this makes much difference, but at least you can now use a 360K floppy to transfer it if needed.

529. Re: [APRSSIG:4116] Re: DOZ & Mouse = !@# \$

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 31 Oct 1995 22:11:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951031220554.29646I-100000@greatlakes>
Rendered body type: text/plain

On Tue, 31 Oct 1995, Chip Griffin wrote:

> Does this mean that mobiles should always use RELAY as their first digi?

APR REPLY: Of course it depends on your area. It is ONLY a good idea if your WIDE digis also have the RELAY alias and if that particular mobile normally travels outside of the area where he can hit a WIDE directly. Such as in my case, my 1 watt tracker cannot be heard by the WIDE, but my home base station (RELAY) can hear me when I am near home. Then as I get closer to work, where the WIDE is, it begins to hear me.

In the long run, WIDES should be WIDELY separated, so by definition, there should be weak areas where mobiles typically cannot get in. That's where using RELAY, WIDE helps.

If your area has WIDES everywhere for mobiles, then THERE ARE TOO MANY WIDES in that area, hi hi...

530. Re: [APRSSIG:4112] Error with MKMAPHK1.EXE

From: Barry Leonard <jleonard@tbcnet.com>
Date: Tue, 31 Oct 1995 22:20:53 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.951031221154.5382B-100000@tbc2.tbcnet.com>
Rendered body type: text/plain

On Tue, 31 Oct 1995, Thomas Griffin - x7792 wrote:

> I am not having much luck getting MKMAPHK1.EXE to work with the 100K
> USGS DLG files. When I run it I get the error:
>
> Does anyone who has successfully used MKMAPHK1.EXE have any good ideas?
>

For some silly reason, it worked great for me today when I made a map of Sandwich IL. I just used gzip -d, put it (the AR2_rdf file and the UNBLOCK.BAS...thanks!) in their own dir, and followed the directions. Much to my amazement, the program spit out a street level map! The biggest trouble I'm having is downloading the files from the server, and deciphering which USGS 100k map covers the area that I want. I'm very

tempted to get the CD-ROM.

Thanks guys, it works great!!!!

73's
Barry Leonard
N9VJQ
jleonard@tbcnet.com

531. CD-Rom maps

From: intercomm.net!wnolle@tapr.org (William Nolle)
Date: Tue, 31 Oct 1995 22:40:04
To: tapr.org!aprssig@tapr.org
Message-ID: <199511010440.WAA17266@sys1.tapr.org>
Rendered body type: text/plain

I see some questions as to the new 100,000 program giving error. Well i have made 18 maps today and have found several bug in the program, several even locked up my computer, but all in all he did a great job of writing the software. You have to be carefull on how large a range your using. Most of the heavy populated areas can only be done with +.8 to maybe +1 I have found after using it all day that once you get use to the program the errors are able to be worked around. I timed myself and it took me 15 minutes to make 3 one nmile highly detailed maps of Birmingham Alabama. The most time saving of the whole process is you can use the files directly as they come of the CD-Rom without first having to unzip them. Of course thos actually downloading the files from USGS will spend lots of time D/Ling them. I have found that most of the time i cannot even access the files, don't know if they are down sometimes or what!. All in all it's fun making those street level maps now. I still wished that Bob would tell me how to shut off that darn beeping when trimming some maps in mapfix16.exe it's waking the XYL all the time. O and MAKE SURE you read the docs.

Bill KE4EER
wnolle@intercomm.net (But not for long)...

532. Re: [APRSSIG:4119] Re: Error with MKMAPHK1.EXE

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 31 Oct 1995 22:57:09 +1800 (CST)
To: aprssig@tapr.org
Message-ID: <199511010457.WAA14482@neuron.cs.tamu.edu>
Rendered body type: text/plain

Barry Leonard sez:

>
> For some silly reason, it worked great for me today when I made a map of
> Sandwich IL. I just used gzip -d, put it (the AR2_rdf file and the
> UNBLOCK.BAS...thanks!) in their own dir, and followed the directions.
> Much to my amazement, the program spit out a street level map! The
> biggest trouble I'm having is downloading the files from the server, and
> deciphering which USGS 100k map covers the area that I want. I'm very
> tempted to get the CD-ROM.

So, if you have net\$cape, Mosaic or a Web Explorer of some kind, go to
<http://edcwww.cr.usgs.gov>, look for the 1:100,000 DLG stuff under Data
Products, and download via graphics. Piece o' cake!

or, become a bithead like me and memorize teh Green Catalog and go directly to
the directory you want...:-)

73, gerry
gerry@cs.tamu.edu

533. Re: [APRSSIG:4120] CD-Rom maps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 31 Oct 1995 22:59:13 +1800 (CST)
To: aprssig@tapr.org
Message-ID: <199511010459.WAA14535@neuron.cs.tamu.edu>
Rendered body type: text/plain

Methinks Bill doth protest too much.

the USGS server appears to be using their own CDRoms. That's an inherently
slow medium, and if they're using a jukebox arrangement, access of the CD
takes a while. I suspect, based on prformance an a couple of notes on the
web, that this is the case.

73, gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

November 1995

Original source file: aprssig.9511

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1995-11/TAPR-APRS_1995-11.txt

1. subscribe

From: elekesa@cadvision.com
Date: Wed, 1 Nov 1995 01:29:24 -0700
To: aprssig@tapr.org
Message-ID: <9511010829.AA45454@huey.cadvision.com>
Rendered body type: text/plain

subscribe

2. Latest Garmin 45 Version

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 01 Nov 95 08:19:28 EST
To: aprssig@tapr.org
Message-ID: <199511011318.IAA20828@gold.interlog.com>
Rendered body type: text/plain

What is the latest Version?

I picked mine up in the middle of the summer and has
2.42 in it.

regards....mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

3. APRSmin.EXE

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 1 Nov 1995 10:30:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951101102342.7274A-100000@greatlakes>
Rendered body type: text/plain

Now that APRS74 is my new baseline, I have posted two additional EXE files.

APRSdr.EXE which has the PATH-FOLLOWING-DEAD-RECKONING mode in it.
APRSmin.EXE which is a minimum 316K version vice the nominal 373K for 7.4.

In both, I removed all DX, WX and DF functions.

If for some reason you just gotta have APRSmin a few K smaller, then I
may be able to find 1K or so (with a lot of work). Anything beyond that
and you will start losing basic functions... If APRSmin DOES solve some
kinda size problems for you, lemme know. Otherwise, I dont see how the
20% size reduction really helps much...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

4. OCEANOGRAPHY CLUB NOON TALK

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 1 Nov 1995 10:48:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951101104348.7274D-100000@greatlakes>
Rendered body type: text/plain

Just thought the SIG might enjoy this one:

----- Forwarded message -----

From: CDR xxxxx (name removed since this was an internal memo)
Subject: OCEANOGRAPHY CLUB NOON TALK

**ATTENTION ATTENTION ATTENTION **

Do you know what a "DATUM" is? Do you know that your ship could run
aground if you relied solely on GPS to navigate in coastal waters? Did
you know that two bombers from two different service branches could
drop bombs on a different location although they used the same
latitude and longitude? Did you know that forward observing Marines have
received "friendly fire" because they called for Naval Gun Fire Support

based on charts different from the ones used by the ship? All this and more will be explained at the OCEANOGRAPHY CLUB NOON TALK on 8 Nov in Mich 117.

LCDR Reese from the Defense Mapping School will give a talk at 1200 8 Nov on the important topic of Charting and Mapping. He brings with him some very current lessons being learned in Bosnia. This is topic of interest to all fleet operators.

----- end of forwarding-----

This shows why I dont really get too excited about APRS maps at the 100K scale when my radio range is 30 miles... hi hi

5. Re: [APRSSIG:4111] Help with APRS and WIN95 pse..

From: "Hufford, Kent" <khufford@postmaster2.dot.gov>
Date: Wed, 01 Nov 95 10:53:54 EST
To: aprssig@tapr.org
Message-ID: <9510018152.AA815251706@postmaster2.dot.gov>
Rendered body type: text/plain

Rich,

I've also upgraded to WIN 95.

And, yep, if you leave APRS running in WIN 95, mine also used to lock up and a continuous BEEP.

What was happening was WIN 95 was doing "housekeeping" work while it thought the PC was idle. I had to disable the "scheduled housekeeping" while I run APRS (or any other LONG running program in DOS).

Since Im at work, I do not remember the exact name of how to disable. But I got WIN 95+ and it added a very small icon in the lower right of the desktop, that when I right button click, I can choose to disable the scheduled work. I just disable when I run APRS or CT.

I think when you install WIN 95 it asked if you want to do scheduled work automatically. You can go in and change the schedule and what it does.

Kent KQ4KK

Reply Separator

Subject: [APRSSIG:4111] Help with APRS and WIN95 pse..
Author: aprssig@tapr.org at postmaster2
Date: 11/1/95 10:34 AM

I have just upgraded to WIN95 here and am just starting to get the hang of it. The only benifit I have had so far is the hardware wizzard, it solved my commport and IRQ problems that I had on 3.1 with a serial mouse, internal modem and a 25pin serial port for the TNC. Now that I can run anything from here without needing to disable one of the devices I need some windows help from the more expirienced 95' users. Currently APRS 7.3a runs in a full window without too much trouble. I did wake up this AM

with a strange CONTINIOUS "BEEP" on the sidetone speaker, APRS did not crash but

it did halt untill I hit a key, then the tone ceased and everything was fine. A little later the tone appeared again and I let it scream for a while and then it

stopped on it's own, APRS was still stopped but no tone. Hitting a key resumed normal program operations. I have not zeroed in on the cause yet, has anyone else??

Now excuse me but I am still 95' illeterate, how can I setup APRS (or any DOS pgm) in a window so I can switch between appplications. It will probably be a few days till I get to the bookstore for a good 95' book. P.S. the book that comes with the upgrade for new PC's really STINKS!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

6. Re: [APRSSIG:4124] Latest Garmin 45 Version

From: alanwc7r@primenet.com (Alan Unangst)
Date: Wed, 01 Nov 1995 08:48:25 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511011549.IAA11115@usr6.primenet.com>
Rendered body type: text/plain

I would suggest that you call Garmin at their toll free # and ask them. I would think that they would know, and I have found them very friendly and helpfull..73...Alan, WC7R

At 07:25 AM 11/1/95 -0600, Mike Walker wrote:

>What is the latest Version?

>

>I picked mine up in the middle of the summer and has
>2.42 in it.

>

>regards....mike

>

>Mike Walker

mwalker@interlog.com

>127 High St. W.

rf: va3mw@va3bbs

>Mississauga, ON

>L5H 1K4

>

>

7. Fixed - Error with MKMAPHK1.EXE

From: Thomas Griffin - x7792 <griff@SSD.intel.com>

Date: Wed, 1 Nov 1995 08:28:30 -0800 (PST)

To: aprssig@tapr.org

Message-ID: <9511011628.AA11490@bungee.SSD.intel.com>

Rendered body type: text/plain

I fixed my problem with MKMAPHK1.EXE. It was due to a pilot error on my part. I wasn't putting in a good file name for the results (dumb me!). Oh well, thanks everyone for all the help.

Looks like we may see some Portland, OR maps one of these days.

73, Thomas (Griff) Griffin, N7ZKL

Beaverton, Oregon, USA

Internet: n7zkl@amsat.org

Packet: n7zkl@k7iqi.or.usa.na

8. help with maps.files

From: lu1bsn@ea4rct.clubs.etsit.upm.es

Date: Wed, 01 Nov 95 17:23:54 GMT

To: aprssig@tapr.org

Message-ID: <6089@ea4rct.clubs.etsit.upm.es>

Rendered body type: text/plain

Hello everyone:

Does anyone know if the only way to see .DXF .DGN and .DWG files maps in the APRS is using the plt2map software by jim krist (kg8ge) or there are any other software way to see them??.

I have tried some programs but none of them are able to convert the autocad and dxf files in the .map files the work with aprs.

I know that aprs read the usgs cd-rom with mapfix, but what kind of files are used in this cd-rom, are .dgn??

Please help me, thank you in advance

marcelo barnatan lu1bsn/ea

e-mail is: lu1bsn@ea4rct.clubs.etsit.upm.es

9. Re: [APRSSIG:4109] pk-232 band switching

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>

Date: Wed, 1 Nov 1995 12:02:06 -0500 (EST)

To: aprssig@tapr.org

Cc: aprssig@tapr.org

Message-ID: <Pine.3.89.9511011135.A15850-0100000@bcfreenet.seflin.lib.fl.us>

Rendered body type: text/plain

APRS correctly sets VHF and HBAUD upon starting up a PK232 if you are running VHF. However to run HF you must O C T and set VHF OFF and HBAUD 300. Of course you must do the reverse procedure when switching from HF to VHF.

It's a simple procedure; takes but a few seconds. I've never found it to be a problem.

William Manley KB4XE

z002594b@bcfreenet.seflin.lib.fl.us

Bob had replied to an earlier message:

> APR REPLY: Are you sure that you told APRS that you are using an AEA? If
> so, APRS SHOULD send out those two commands.

10. Re: [APRSSIG:4130] help with maps.files

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 1 Nov 95 12:23:18 EST
To: aprssig@tapr.org, lu1bsn@ea4rct.clubs.etsit.upm.es
Message-ID: <CMM-RU.1.4.815246598.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

> Does anyone know if the only way to see .DXF .DGN and .DWG files
> in the APRS is using the plt2map software by jim krist (kg8ge) or....

The MacMapMaker program (Discussed here in the past) which is finally working, will eventually be able to handle some of the obscure formats that you mention. At the moment, it does not do this, but I am rapidly gathering information on these formats so that I can handle them.. All maps made by MacMapMaker will work with both the Macintosh and Windows versions of APRS.

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

11. Re: [APRSSIG:4118] Re: DOZ & Mouse = !@#\$

From: quarry@q.continuum.net (Chip Griffin)
Date: Wed, 1 Nov 1995 12:39:30 -0500
To: aprssig@tapr.org
Message-ID: <v01530500acbd5f234735@[199.0.52.64]>
Rendered body type: text/plain

At 21:20 10/31/95, Bob Bruninga wrote:

> > Does this mean that mobiles should always use RELAY as their first digi?

> APR REPLY: Of course it depends on your area. It is ONLY a good idea if
> your WIDE digis also have the RELAY alias and if that particular mobile
> normally travels outside of the area where he can hit a WIDE directly.
> Such as in my case, my 1 watt tracker cannot be heard by the WIDE, but my
> home base station (RELAY) can hear me when I am near home. Then as I get
> closer to work, where the WIDE is, it begins to hear me.

>

> In the long run, WIDES should be WIDELY separated, so by definition,
> there should be weak areas where mobiles typically cannot get in. THats
> where using RELAY,WIDE helps.

>

> If your area has WIDES everywhere for mobiles, then THERE ARE TOO MANY
> WIDES in that area, hi hi...

I can understand your point. I must say, however, that I was extremely disappointed that on a trip from Norwich CT to Salem NH AND from Norwich CT to Valley Stream (Long Island) NY I encountered very little support via WIDES. There were NO cases where my signal was echoed back to the north and only two areas (New Haven and Northwestern Long Island) to the south where it was. That means that I have no idea if my signal was heard anywhere but those two areas cover a small segment of the distance between Salem NH and New York City (and of course in New London County which covered about 60 miles of that area). This was a HUGH disappointment ...

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (860-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@nlokk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

<http://q.continuum.net/~quarry/>

12. RE:CD ROM Maps

From: wirenet!n4nr@vulcan.com (N4NR)
Date: Wed, 01 Nov 95 13:01:00 -0500

To: aprssig@tapr.org
Message-ID: <8B4230D.0012000094.uuout@vulcan.com>
Rendered body type: text/plain

Bill - KE4EER wrote:

-> are able to be worked around. I timed myself and it took me 15
-> minutes to make 3 one nmile highly detailed maps of Birmingham
-> Alabama. The most time

Hi Bill...and to the SIG!

Dennis here...just South of Birmingham (Pelham, Al)...I am new to APRS,
and read with great interest about Bill's work with the new map software
on Birmingham. I wonder if I might get those maps for the Birmingham
folks? BTW, I saw your (Bill's) map of Alabaster, Al!

I run the ham bbs here in B'ham (WireNET - 205-444-WNET), and there has
been an upsurge in interest in APRS in the last 4 weeks. I could make
the Birmingham maps available to all B'ham users. (Some, maybe most,
don't have ftp access, and we keep APRS software available for
them)..The WireNET BBS also echos the APRS SIG, allowing any of the
over 350 users to follow the SIG.

FYI, I plan to install an APRS 145.79 digi on the roof of a 175'
building at the top of Red Mountain (ele approx 1050') this Saturday. It
is located in the middle of the city, about 200 feet West of where I-65
passes over Red Mountain.

73,

Dennis - N4NR

13. KE4EER and ALA maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 1 Nov 1995 15:08:34 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951101150420.13691F-100000@greatlakes>
Rendered body type: text/plain

Apologies to the SIG: EVERYONE except BILL delete this message!

Bill, I tried to send a REPLY message to you, but your address is rejected.
Something is wrong with your return address. Better get your service
provider to fix it, cuz no one can send you reply mail.

----- Forwarded message -----

Date: Wed, 1 Nov 1995 14:54:53 -0500
From: Mail Delivery Subsystem <Email-Admin@greatlakes>
To: bruninga@greatlakes
Subject: Returned mail: User unknown

----- The following addresses had delivery problems -----
William Nolle <intercomm.net!wnolle@tapr.org> (unrecoverable error)

----- Transcript of session follows -----

... while talking to sys1.tapr.org.:
>>> RCPT To:<intercomm.net!wnolle@tapr.org>
<<< 550 <intercomm.net!wnolle@tapr.org>... User unknown
550 William Nolle <intercomm.net!wnolle@tapr.org>... User unknown

14. Indiana

From: rwf <rwf@mindspring.com>
Date: Wed, 1 Nov 1995 17:12:18 -0500
To: aprssig@tapr.org
Message-ID: <199511012212.RAA08728@dylan.mindspring.com>
Rendered body type: text/plain

I'll be in Indiana (Indy and Lafayette) this Saturday through next Wednesday.
Any APRS going on there? Freq, Callsigns, Digis, meetings? Any local MAPS?
Anybody wanna get together I'll have my ammo-box tracker with me on the
rental car.

Ralph Fowler
N4NEQ
Atlanta GA

15. Re: [APRSSIG:4135] KE4EER and ALA maps

From: rwf <rwf@mindspring.com>
Date: Wed, 1 Nov 1995 17:12:13 -0500
To: aprssig@tapr.org
Message-ID: <199511012212.RAA08710@dylan.mindspring.com>
Rendered body type: text/plain

Bob B. wrote:

>Bill, I tried to send a REPLY message to you, but your address is rejected.
>Something is wrong with your return address. Better get your service
>provider to fix it, cuz no one can send you reply mail.

Until his provider figures out how Internet addressing works, you may
translate his address
as follows:

wnolle@intercomm.net

What's with the providers in Huntsville anyway? Bill has tried 3 of them
now (that I know of)
<g>

16. Re: [APRSSIG:4111] Help with APRS and WIN95 pse..

From: ETHOLMEN@aol.com
Date: Wed, 1 Nov 1995 21:17:28 -0500
To: aprssig@tapr.org
Message-ID: <951101211715_80028794@mail06.mail.aol.com>
Rendered body type: text/plain

Hi Rich;

To get aprs into a window in 95 just hold down the
alternate key and hit return or enter and it will go
into a window. The only thing is the program doesn't
respond then. If you hit the F10 (D0Z) key a window appears
with the words --Screen is dozing-- in it but nothing
else. I am waiting for the windows version to come out.
Using the alt-enter key works for a lot of DOS programs
and they keep on running in the window. I use it for
Quick Track and it runs fine.

Gene N9GJJ

17. Re: [APRSSIG:4135] KE4EER and ALA maps

From: gerry@cs.tamu.edu (Gerry Creager)
Date: Wed, 01 Nov 95 21:25:31 EST
To: aprssig@tapr.org
Message-ID: <199511020235.UAA08066@cs.tamu.edu>
Rendered body type: text/plain

On Wed, 1 Nov 1995 14:18:33 -0600 you wrote:

>Bill, I tried to send a REPLY message to you, but your address is rejected.
>Something is wrong with your return address. Better get your service
>provider to fix it, cuz no one can send you reply mail.

>

>----- Forwarded message -----

>Date: Wed, 1 Nov 1995 14:54:53 -0500

>From: Mail Delivery Subsystem <Email-Admin@greatlakes>

>To: bruninga@greatlakes

>Subject: Returned mail: User unknown

>

> ----- The following addresses had delivery problems -----

>William Nolle <intercomm.net!wnolle@tapr.org> (unrecoverable error)

>

> ----- Transcript of session follows -----

>... while talking to sys1.tapr.org:

>>>> RCPT To:<intercomm.net!wnolle@tapr.org>

><<< 550 <intercomm.net!wnolle@tapr.org>... User unknown

>550 William Nolle <intercomm.net!wnolle@tapr.org>... User unknown

Bob, thanks. this indicates that TAPR's box is in fact in error. it
should have looked at the address and parsed it, and enqueued it for
re-mail. It's a sloppy way to get mail around, but in years past, I
have sent many a note via "!! routing."

Bill, Bob is right, though. Your Reply to: address needs help. Check

with your tech support folks and your life will be easier!

73, gerry

18. Clarification on Pico Packet cable

From: gphowell@soulcage.inmind.com (Geep Howell)
Date: Wed, 01 Nov 95 22:44:50 EST
To: aprssig@tapr.org
Message-ID: <199511020322.WAA11514@crucible.inmind.com>
Rendered body type: text/plain

I posted a comment to the net concerning what I thought was a bad cable that was supplied by PacComm with the Pico Packet. They told my friend who bought the new TNC that they would replace the defective part immediately, and were as good as their word, the replacement arrived two days later. However, it was NOT the 6 pin RJ 45 cable that I reported was bad, rather the RJ-45 to DB9 adapter was miswired. The new one placed on the end of the supplied cable worked perfectly. Great service, guys

Geep WA4RTS in Lynchburg, VA

19. Re: [APRSSIG:4111] Help with APRS and WIN95 pse..

From: Sam Nabkey - WJ8T <snabkey@wingsbbs.com>
Date: Wed, 01 Nov 1995 23:04:49 -0500
To: aprssig@tapr.org
Message-ID: <30984361.1E76@wingsbbs.com>
Rendered body type: text/plain

The BEEPING is the BEEPS in APRS.. Need to shut them off...

To configure a DOS Window, goto Windows Explorer, find APRS7x.exe and click the right button.. Then, under Property, move to the screen tab and select "Full Screen". Under MISC. slide the Idle Sensitivity down to the lowest setting.

This is all I have done.. I made a short cut for APRS74.EXE on my desktop and added it to my START group in case of power failure..

Only thing that doesn't work is the BEEPS. else works great!!

Hope I am some help.. (I'm not very good at it either but I get along.)

Sam Nabkey - WJ8T (snabkey@wingsbbs.com)

73!

n2czf@gate.net wrote:

>

> I have just upgraded to WIN95 here and am just starting to get the hang of it.....

20. Re: [APRSSIG:4118] Re: DOZ & Mouse = !@#\$

From: jkerns@usit.net (jim kerns)
Date: Thu, 02 Nov 1995 09:07:11 -0500
To: aprssig@tapr.org
Message-ID: <199511021301.IAA24874@use.usit.net>
Rendered body type: text/plain

Question! I recently finished an APRS/GPS trip from Prescott,Ariz. to my Qth in Tn. I was on 30 meters. at the beginning in Ariz. I had my unproto set to digi thru a loud station on the east coast. Later when I was ready to shut down for lunch I noticed a msg for me from someone on freq. that " I should not be digiing on HF mobile as it was cutting the channel time in half"??? I thought that was what the digi was for, especially when one was mobile. Was I wrong in setting my unproto to digipeat theu another station for awhile?

Jim.

>

>

>

21. Weather Stations

From: mwalker@interlog.com (Mike Walker)
Date: Thu, 02 Nov 95 08:43:02 EST
To: aprssig@tapr.org
Message-ID: <199511021342.IAA08935@gold.interlog.com>
Rendered body type: text/plain

I received a West Marine Catalogue in the mail yesterday, and it had a weather station that looked like the Ultimeter for a \$179 US\$.

They call it a Weather Base and wonder if it is the cheapest price for a weather station I can use for APRS.

Feedback appreciated.

regards...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

22. Re: [APRSSIG:4136] Indiana

From: "Thomas H. Busch" <TOMB@avoca.nwscc.sea06.navy.mil>
Date: Thu, 2 Nov 1995 08:42:14 EST
To: aprssig@tapr.org
Message-ID: <199511021349.HAA25026@sys1.tapr.org>
Rendered body type: text/plain

I have a set of maps for Indiana, but they only have detail for Bloomington at this time. I would upload them, if someone would tell me how. Anonymous logins apparently do not have write permission to the upload directory (?). As far as I know there is no Map coordinator for Indiana.

As soon as I can get more data from the server, I'll put together something for Lafayette. Indy will take some work.

Tom Busch

Electronics Engineer
Crane Division, Naval Surface Warfare Center

Tel (812) 854-6490
FAX (812) 854-1332
E-Mail tomb@avoca.nwscc.sea06.navy.mil

23. Re: [APRSSIG:4144] Re: Indiana

From: intercomm.net!wnolle@tapr.org (William Nolle)
Date: Thu, 02 Nov 1995 08:49:28
To: tapr.org!aprssig@tapr.org
Message-ID: <199511021449.IAA27351@sys1.tapr.org>
Rendered body type: text/plain

I also have been working hard bulding maps. I now have 59 to cover many towns in Alabama. Well actually 2 of the maps are for Nashville,TN. I have a MAPLIST.ALA. I also am in the dark on how to make these available for other users!. 90% of the maps are street level maps done from the CD-Rom. I have uploaded some of the maps to WNET BBS in Birmingham but that's a LD call for me.

Bill KE4EER
wnolle@intercomm.net (Must be entered manually)

>I have a set of maps for Indiana, but they only have
>detail for Bloomington at this time. I would upload them, if someone
>would tell me how. Anonymous logins apparently do not have write
>permission to the upload directory (?). As far as I know there is no
>Map coordinator for Indiana.

>
>As soon as I can get more data from the server, I'll put together
>something for Lafayette. Indy will take some work.

>
>-----
>Tom Busch

>
>Electronics Engineer
>Crane Division, Naval Surface Warfare Center

>
>Tel (812) 854-6490
>FAX (812) 854-1332
>E-Mail tomb@avoca.nwscc.sea06.navy.mil

>
>

24. Re: [APRSSIG:4142] Re: DOZ & Mouse = !@#\$

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 2 Nov 1995 10:54:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951102093620.23492D-100000@greatlakes>
Rendered body type: text/plain

On Thu, 2 Nov 1995, jim kerns wrote:

> Question! I recently finished an APRS/GPS trip from Prescott,Ariz. to my Qth
> in Tn. I was on 30 meters. at the beginning in Ariz. I had my unproto set to
> digi thru a loud station on the east coast. Later when I was ready to shut
> down for lunch I noticed a msg for me from someone on freq. that " I should
> not be digiing on HF mobile as it was cutting the channel time in half"??? I

APR REPLY: Too bad, Ignore the un-thinking. You were doing the ONE thing that APRS was designed to do. On a LONG trip, I certainly would digi through another STRONG HF station so that I could be tracked by other relatively nearby stations in your skip-zone.

Similarly, mobiles driving 10 miles to and from work daily, and GATING and/or DIGIpeating their posits all over the US deserve to be chided.

RULE: If you are doing someting UNUSUAL, then we all want to see it! If you just want to be IMPORTANT, go down to 80m phone...

25. Re: [APRSSIG:4143] Weather Stations

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 2 Nov 1995 10:57:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951102105509.23492E-100000@greatlakes>
Rendered body type: text/plain

On Thu, 2 Nov 1995, Mike Walker wrote:

> I received a West Marine Catalogue in the mail yesterday, and it had a
> weather station that looked like the Ultimeter for a \$179 US\$.
> They call it a Weather Base and wonder if it is the cheapest price for
> a weather station I can use for APRS.

APRS ONLY works with the ULTIMETER. Call Peet Bros, and see if that is one of theirs under a different name. The price sounds right for an Ultimeter-II which is also \$179.

I believe the MacAPRS also works with a DAVIS instrument...

26. Re: [APRSSIG:4144] Re: Indiana

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 2 Nov 1995 11:01:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951102105803.23492F-100000@greatlakes>
Rendered body type: text/plain

On Thu, 2 Nov 1995, Thomas H. Busch wrote:

> I have a set of maps for Indiana, but they only have
> detail for Bloomington at this time. I would upload them, if someone
> would tell me how. Anonymous logins apparently do not have write
> permission to the upload directory (?). As far as I know there is no
> Map coordinator for Indiana.

My suggestion is to send them by snail mail to KB8JXO, the map-maker-extroidenaire for Ohio. He seems to be spiling over into neighboring states, and he might already be doing maps for INDIANA...

Now that MKMAPHK1.EXE makes it esy to make maps, we need to be getting serious about putting together STATE MAP bundles as described in MAPS.TXT. THat way, the maps are organized in to their proper heirarchy in consideration of the "big picture"...

27. STATE Map files

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 2 Nov 1995 11:07:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951102110228.23492G-100000@greatlakes>
Rendered body type: text/plain

On Thu, 2 Nov 1995, William Nolle wrote:

> I also have been working hard bulding maps. I now have 59 to cover many
> towns in Alabama. Well actually 2 of the maps are for Nashville,TN. I have a
> MAPLIST.ALA. I also am in the dark on how to make these available for other
> users!. 90% of the maps are street level maps done from the CD-Rom.

APR REPLY:

For those without FTP access, put together your XXmapsNN.ZIP file in accordance with the directions in MAPS.TXT and SNAILMAIL them to me on a disk. I will post them if you like. It only costs 32 cents...

Please build the ZIP file exactly as described in MAPS.TXT so that they UNZIP properly using the PKUNZIP -D option...

28. Re: [APRSSIG:4146] Re: DOZ & Mouse = !@#\$

From: "Hufford, Kent" <khufford@postmaster2.dot.gov>
Date: Thu, 02 Nov 95 11:18:15 EST
To: aprssig@tapr.org
Message-ID: <9510028153.AA815339535@postmaster2.dot.gov>
Rendered body type: text/plain

The message below I think came from Bob WA4APR.

Somehow my cc:mail server or something strips off who is sending the reflector messages from aprssig. So I do not in most cases know who is sending the mail, unless they put their name and such at the bottom of their message.

Is there some way to fix it at MY end?

thanks

Kent
KQ4KK

Kent_Hufford@postmaster2.dot.gov

Reply Separator

Subject: [APRSSIG:4146] Re: DOZ & Mouse = !@#\$
Author: aprssig@tapr.org at postmaster2
Date: 11/2/95 11:04 AM

On Thu, 2 Nov 1995, jim kerns wrote:

> Question! I recently finished an APRS/GPS trip from Prescott,Ariz. to my Qth
> in Tn. I was on 30 meters. at the beginning in Ariz. I had my unproto set to
> digi thru a loud station on the east coast. Later when I was ready to shut
> down for lunch I noticed a msg for me from someone on freq. that " I should
> not be diging on HF mobile as it was cutting the channel time in half"??? I

APR REPLY: Too bad, Ignore the un-thinking. You were doing the ONE thing that APRS was designed to do. On a LONG trip, I certainly would digi through another STRONG HF station so that I could be tracked by other relatively nearby stations in your skip-zone.

Similarly, mobiles driving 10 miles to and from work daily, and GATing and/or DIGIpeating their posits all over the US deserve to be chided.

RULE: If you are doing someting UNUSUAL, then we all want to see it! If you just want to be IMPORTANT, go down to 80m phone...

29. Re: [APRSSIG:4130] help with maps.files

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 2 Nov 1995 11:23:45 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511021723.LAA11259@solar.cs.tamu.edu>
Rendered body type: text/plain

DXF is a drawing Exchange File. It's a generic format to exchange drawing files (without decent databases) between different packages, like Intergraph's Microstation, Autocad, ARCInfo, etc.

DGN files are Intergraph (Microstation) DesiGN files. They are *not* directly compatible.

If I recall correctly, DWGs are Microstation drawing files. They might be amenable to translation directly. I'm not sure. I think, offhand, the best way to proceed would be to translate DXFs to APRS maps, or to accept something

else, like Microstation outputs, in APRS...

I will not have time for a while to do so, but can (later) check on .DGN file formats if Keith needs that information down the pike!

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

30. "Y" Cable for mobil APRS

From: alanwc7r@primenet.com (Alan Unangst)
Date: Thu, 02 Nov 1995 12:46:42 -0700
To: aprssig@tapr.org
Message-ID: <199511021946.MAA06606@usr1.primenet.com>
Rendered body type: text/plain

I have, through trial and error, come up with a nice "Y" Cable for use with the Garmin GPS-45, a Laptop, and the KPC-3. I will give the instructions to anyone who would like them. you can contact me at my internet address of: alanwc7r@primenet.com or my home packet addredd of WC7R @ KB7FRV.

The system worke neicely and have designes it for KPC-3's "Stand Alone" feature, also.

73 & hope to see you on the map,

Alan, WC7R

31. Re: [APRSSIG:4139] Re: KE4EER and ALA maps

From: n8mwz@alpha.wcoil.com (Bob Hartman)
Date: Thu, 2 Nov 1995 14:22:43 -0500
To: aprssig@tapr.org
Message-ID: <199511021922.0AA10667@alpha.wcoil.com>
Rendered body type: text/plain

>On Wed, 1 Nov 1995 14:18:33 -0600 you wrote:

>

>>Bill, I tried to send a REPLY mesage to you, but your address is rejected.

>>Something is wrong with your return address. Better get your service

>>provider to fix it, cuz no one can send you reply mail.

>

>Bob, thanks. this indicates that TAPR's box is in fact in error. it

>should have looked at the address and parsed it, and enqueued it for

>remail. It's a sloppy way to get mail around, but in years past, I

>have sent many a note via "! routing."

>

>Bill, Bob is right, though. Your Reply to: address needs help. Check

>with your tech support folks and your life will be easier!

>

>73, gerry

Might I suggest using the AMSAT remailer service if you intend to be changing providers and want only to have to change your address once?

I believe their address is "listserv@amsat.org" for info.

Now back to APRS...

```
////////////////////////////////////  
//// Bob Hartman, N8MWZ           Grid Square EN70      ////  
//// Lima, Ohio                  40 45N, 084 06W        ////  
//// <n8mwz@amsat.org>            Member ARRL, AMSAT, &  ////  
//// VHF, UHF, OSCAR 13 {soon}    TAWG #0H89           ////  
////////////////////////////////////
```

32. Re: [APRSSIG:4150] Re: DOZ & Mouse = !@#\$

From: WA1YKN@aol.com
Date: Thu, 2 Nov 1995 15:20:53 -0500
To: aprssig@tapr.org
Message-ID: <951102152049_96236371@mail06.mail.aol.com>
Rendered body type: text/plain

>From: khufford@postmaster2.dot.gov (Hufford, Kent)

> The message below I think came from Bob WA4APR.
>
> Somehow my cc:mail server or something strips off who is sending the
> reflector messages from aprssig. So I do not in most cases know who is
> sending the mail, unless they put their name and such at the bottom of
> their message.

> Is there some way to fix it at MY end?

Kent,

With out a lot more information about your mailer and the provider,
only practical suggestion is try a different mailer...

I do agree with your comment, Folks should put their NAME and CALL (!!!) at
the end of messages, it is just common sense to do so... In this day of the
electronic call book, just their CALL is sufficient. Not all people
receiving these messages have control over how their mail is handled or
misshandled as the case may be...

for example:

>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

or before a reply comment in a mirrored message:

>APR REPLY: YES, EVERYONE DO THIS!!! (but then dont forget later...)

Bob almost always puts a line at the bottom of his messages so you know it is
him even if he is not anywhere near the Great Lakes ... (but not allways...)

Of course, then there is the other extreme !!!

	73, Mitch, WA1YKN
	WA1YKN@AOL.com,
walykn@walykn.ampr.org	fmhill@capecod.net,
fmhill@aol.com	
	WA1YKN@WG1I.#ema.ma.usa.noam
	WA1YKN@switch.capecod.ampr.org
	SysOp of Cape Cod's only
WIDE-RELAY Digi...	CapeCodPG@aol.com
	(The LANlord @ CCLAN)

33. APRS Help

From: ah586@detroit.freenet.org (Steve Sable)
Date: Thu, 2 Nov 1995 15:14:04 -0500
To: aprssig@tapr.org
Message-ID: <199511022014.PAA28385@detroit.freenet.org>
Rendered body type: text/plain

Dont know if this is a proper place to ask
for help on APRS.
Have a Pk-900 and cant get APRS to receive
or trnasmit. I do a complete TNC reset and
re-initialiaze the TNC and just use the
defaults but no go. Once got it to monitor
VHF but the beacon went out on HF. Would like
to see the prog work one time.
I have a Pentium with WIN95 but run APRS from DOS.
Am also trying APRS73D. Alot of times when APRS screen
comes up, if I try to goto TNC commands, the computer
locks up. Any hints to start me?
CUL ah586@detroit.freenet.org

--

ah586@detroit.freenet.org
N8NYU
Maybe, Michigan

34. Re: [APRSSIG:4152] "Y" Cable for mobil APRS

From: rwf <rwf@mindspring.com>
Date: Thu, 2 Nov 1995 15:39:51 -0500
To: aprssig@tapr.org
Message-ID: <199511022039.PAA03141@dylan.mindspring.com>
Rendered body type: text/plain

Why keep us all in suspense, or cause yourself a lot of trouble answering
all the
Send it to me.... me to posts

Just Post it!

Ralph

At 01:49 PM 11/2/95 -0600, you wrote:
>I have, through trial and error, come up with a nice "Y" Cable for use with
>the Garmin GPS-45, a Laptop, and the KPC-3. I will give the instructions to
>anyone who would like them. you can contact me at my internet address of:
>alanwc7r@primenet.com or my home packet addressd of WC7R @ KB7FRV.
>
>The system worke neicely and have designes it for KPC-3's "Stand Alone"
>feature, also.
>
>73 & hope to see you on the map,
>
>Alan, WC7R
>
>
>

35. Re: [APRSSIG:4156] Re: "Y" Cable for mobil APRS

From: alanwc7r@primenet.com (Alan Unangst)
Date: Thu, 02 Nov 1995 14:14:31 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511022114.OAA18404@usr5.primenet.com>
Rendered body type: text/plain

Did not, until now know that anybody would be interested. Guess they are.

Love your attitude!!!

73,

alan, WC7R

At 02:44 PM 11/2/95 -0600, rwf wrote:
>Why keep us all in suspense, or cause yourself a lot of trouble answering
>all the
>Send it to me.... me to posts
>
>Just Post it!
>
>Ralph
>
>
>
>At 01:49 PM 11/2/95 -0600, you wrote:
>>I have, through trial and error, come up with a nice "Y" Cable for use with
>>the Garmin GPS-45, a Laptop, and the KPC-3. I will give the instructions to
>>anyone who would like them. you can contact me at my internet address of:
>>alanwc7r@primenet.com or my home packet addressd of WC7R @ KB7FRV.
>>
>>The system worke neicely and have designes it for KPC-3's "Stand Alone"
>>feature, also.
>>
>>73 & hope to see you on the map,
>>
>>Alan, WC7R
>>
>>

>>
>
>

36. INSTRUCTIONS FOR "Y" CABLE

From: alanwc7r@primenet.com (Alan Unangst)
Date: Thu, 02 Nov 1995 14:20:28 -0700
To: aprssig@tapr.org
Message-ID: <199511022120.0AA19254@usr5.primenet.com>
Rendered body type: text/plain

Here are the instructions for constructing a mobil "Y" cable for use with a Garmin GPS-45, a KPC-3 and a Laptop:

9 Pin		25 Pin
1	to	8
2	to	3 + Brown Wire from the GPS-45 Power/Data Cable
3	to	2 + White Wire " " " " " " "
4	to	20
5	to	7 + Black Wire " " " " " " "
6	to	6
7	to	4
8	to	5
9	to	22

There it is. It workes like gang busters, and is easy to construct. Enjoy, and I am looking froward to seeing you "On The Map"

73,

Alan, WC7R

37. RE: [APRSSIG:4151] Re: help with maps.files

From: Willson Flor <willf@rrgroup.com>
Date: Thu, 2 Nov 1995 16:47:51 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3951102164751AA005400@rrgroup3>
Rendered body type: text/plain

I didn't get the original post in this thread, but incase it's important, *.DWG files are AutoCAD drawing files (Microstation may also use the same extension, I suppose, but AutoCAD is *definitely* *.DWG)

From: Gerald J Creager [SMTP:gerry@cs.tamu.edu]
Sent: Thursday, November 02, 1995 11:30AM
To: aprssig@tapr.org
Subject: [APRSSIG:4151] Re: help with maps.files

DXF is a drawing Exchange File. It's a generic format to exchange drawing files (without decent databases) between different packages, like Intergraph's Microstation, Autocad, ARCInfo, etc.

DGN files are Intergraph (Microstation) DesiGN files. They are *not* directly compatible.

If I recall correctly, DWGs are Microstation drawing files. They might be amenable to translation directly. I'm not sure. I think, offhand, the best way to proceed would be to translate DXFs to APRS maps, or to accept something else, like Microstation outputs, in APRS...

I will not have time for a while to do so, but can (later) check on .DGN file formats if Keith needs that information down the pike!

73, gerry

--
Gerry Creager N5JXS
gerry@cs.tamu.edu
* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

38. Pleasantly Surprised

From: jkeck@smartlink.net (james keck)
Date: Thu, 02 Nov 1995 17:58:29 -0800
To: aprssig@tapr.org

Message-ID: <199511030158.RAA20159@warp10.smartlink.net>
Rendered body type: text/plain

Hi....

I thought that I had read that the mouse feature only worked for the Microsoft Mouse....Well, I was surprised to find out that when I moved my LogiTech Trackball, it moved the cursor across the screen... It was quite a change to quickly move around the APRS screen with the trackball rather than using the arrow keys to change positions. I am using APRS 74.

I have noticed two things in the last few revisions that I have not run into before. Cant figure out why all of a sudden that these two differences are starting to appear.

1) After transmitting the regular position updates, I have begun getting the statement that - APRS does not see current position - or something like that. This statement appears after every transmission even though the station that I digipeat through transmits my position and I see it returned.

2) When sending a message (one liner) to another station, and receiving an ack 1 from the other station - another message is generated and an additional ack is received....If I make a manual transmission using (X) followed by All....That same message is resent again...

Maybe I missed something and somebody can enlighten me on what I am doing wrong..They dont seem to cause any problems with the operation....

73...Jim

39. Bug

From: intercomm.net!wnolle@tapr.org (William Nolle)
Date: Thu, 02 Nov 1995 21:26:41
To: tapr.org!aprssig@tapr.org
Message-ID: <199511030327.VAA21233@sys1.tapr.org>
Rendered body type: text/plain

Bob, sorry i listed this here but right now i want to keep my e-mail simple hi. In version 74 when i hit the F9 key then the F10 for Doz mode, then hit F9 again the program scrashes everytime. Now i did this by accident but it very repeatable.

Bill KE4EER

40. APRS and PKLITE (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 2 Nov 1995 22:39:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951102223701.4644C-100000@greatlakes>
Rendered body type: text/plain

----- Forwarded message -----

From: Samuel T. Nabkey - WJ8T <snabkey@wingsbbs.com>
To: Bruninga@nadn.navy.mil
Hello Bob,

I have found by PKLITE'ing a program I can reduce it to about 1/2 the size with no measurable loss of performance.

I wonder if you have tried PKLITE'ing APRS.. I did after I downloaded APRS74 and have been running it bug free since. (Except for whats already there of course - Mouse in DOZ for instance.

41. Re: [APRSSIG:4161] Bug

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 2 Nov 1995 22:50:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951102224822.4644E-100000@greatlakes>
Rendered body type: text/plain

On Thu, 2 Nov 1995, William Nolle wrote:

> Bob, sorry i listed this here but right now i want to keep my e-mail simple hi.
> In version 74 when i hit the F9 key then the F10 for Doz mode, then hit F9
> again the program scrashes everytime. Now i did this by accident but it very
> repeatable.

APR REPLY: There are MANY commands that will CRASH in DOZ mode. The proper way to use DOZ is to hit F10 again to come out of it. I did make the MAP, L and P commands work also.

42. [APRSSIG:4140] Clarification on Pico Packet cable

From: wirenet!n4nr@vulcan.com (N4NR)
Date: Fri, 03 Nov 95 00:44:00 -0500
To: aprssig@tapr.org
Message-ID: <8B4402C.00120000B8.uuout@vulcan.com>
Rendered body type: text/plain

-> word, the replacement arrived two days later. However, it was NOT
-> the 6 pin RJ 45 cable that I reported was bad, rather the RJ-45 to
-> DB9 adapter was miswired. The new one placed on the end of the
-> supplied cable worked perfectly. Great service, guys

Re: The report about the defective pico-packet adapter...I received one of them last week. Thanks for the info...I phoned pac-com, and they were very sorry, and said they will send another one out...also said new firmware was available this week, and it too would be sent.

I rewired my bad adapter tonight..cut cables and spliced ...
works fb...patch info is:

DB9 pin	color	color	RJ11 pin
2	---- yellow	to black ----	2
3	---- green	to red ----	3
4	---- nc		
5	---- black	to yellow ---	5
6	---- nc		
7	---- red	to green ----	4
8	---- blue	to white ----	1

73,

Dennis - N4NR
wirenet!n4nr@vulcan.com

43. MKMAPHK1.EXE

From: "L. J. Shepherd" <ljs@west.net>
Date: Thu, 02 Nov 1995 23:11:47 -0800
To: aprssig@tapr.org
Message-ID: <199511030712.XAA08124@acme.sb.west.net>
Rendered body type: text/plain

Hello Group:

I'm just getting started trying to make maps.....dl'd the maps from usgs via internet.....used gzip -d to decompress.....placed results in a c:\dlg directory.....ran MKMAPHK1.exe.....program says my raw data does not contain my defined lat/lon coordinates.....but it should as I was careful to dl the map for my area.

I double-checked and it seems I'm missing the EXTRACT.exe program which apparently is needed to process the raw, just decompressed, usgs map data. Would someone please confirm whether I need extract.....I will search the usgs ftp site again.....I did find something in the APRS files named USGSMAP1.bas, is that the EXTRACT program in disguise ??

Thanks very much ! 73, Jim K6OYY TAPR 502

44. ATV Balloon 95

From: rcurry@ramlink.net
Date: Fri, 3 Nov 1995 02:29:06 -0500
To: aprssig@tapr.org
Message-ID: <199511030729.CAA22116@ram.ramlink.net>
Rendered body type: text/plain

This Saturday Nov 4, 1995 10AM EST we will launch (weather permitting) our amateur radio/atv balloon from Morehead, KY APRS/gps packet on 145.79Mhz. ATV on 439.25 Horz with GPS data overlaid with color video from 4 watt transmitter. 10 meter beacon on 28.322Mhz. Look for several 2 mtr and 70cm linked repeaters around WV, OH and KY. linked to the Huntington, WV 146.04/64 repeater. Hf net on 7.230 Mhz by KB8KMH. Look for check in to begin 9:00 AM EST. Would like reports sent to WA4GSS At rcurry@ramlink.net I will post an note if launch is delayed. 73, Ron, WA4GSS

45. Problems ??

From: elekesa@cadvision.com
Date: Fri, 3 Nov 1995 02:51:45 -0700
To: aprssig@tapr.org
Message-ID: <9511030951.AA40424@huey.cadvision.com>
Rendered body type: text/plain

I have a few questions, can someone help?

Here is what I use... A Garmin 45, KPC9612, 386 Laptop, and a Kenwood 733A.

1? - When I am driving, is there anyway to erase my callsign at my position while the screen updates? It seems to get very messy after awhile. Once I press the spacebar, it clears up, however I loose where my last track was.

2? - How is it that two of the exact setups on two different stations cannot here each others beacons? One may here the other, but not visa versa?

3? - What is RELAY, RELAY,WIDE, WIDE,WIDE? Which is better to use as a mobile station?

AND the last question,

4? - Has anyone used or have a DOPPLER linked with your GPS/TNC/LAPTOP and done some real DFing????

Thank you to anyone who replys....

oh one more. What are errors 5 and 6 in APRS V7.2 ???

De Aaron Elekes
VE6FXR

46. Re: [APRSSIG:4165] MKMAPHK1.EXE

From: barrettd@crpl.cedar-rapids.lib.ia.us
Date: Fri, 03 Nov 1995 04:22:34 -0600
To: aprssig@tapr.org
Message-ID: <199511031022.EAA02501@sys1.tapr.org>
Rendered body type: text/plain

At 01:19 AM 95-11-3 -0600, you wrote:

>Hello Group:

>ran MKMAPHK1.exe.....program says my raw data

>does not contain my defined lat/lon coordinates.....but it should as I was

>careful to dl the map for my area.

>

>I double-checked and it seems I'm missing the EXTRACT.exe program which

>apparently is needed to process the raw,73, Jim K60YY TAPR 502

>

The USGS data obtained from the internet us in a UNIX text format and lacks cr/lf which are needed in pc text files. You need the program unblock from the tapr FTP site to parse the file into 80 character chunks, and then things should work.

47. APRS Maps on CD-ROM

From: sproul@ap.org (Mark Sproul)
Date: Fri, 3 Nov 1995 09:11:56 -0500
To: aprssig@tapr.org
Message-ID: <v02110105acbfd275b02f@[165.1.27.20]>
Rendered body type: text/plain

ANNOUNCEMENT

There has been a lot of discussion about APRS maps. We are going to be producing a CD-ROM full of maps for APRS, MacAPRS and WinAPRS (the Windows version of MacAPRS). This CD-ROM will have over 500 megabytes of MAP files. We will have this available at the 1996 Dayton Hamfest. We hope to sell the CD-ROM for about \$20.00.

Mark Sproul

PS

If you have APRS maps that you would like included on CD-ROM, please upload them to TAPR (preferred) or email them to ksproul@noc.rutgers.edu.

Mark Sproul	Amateur Radio: KB2ICI
Software Engineer @ Assoc Press	AppleLink: Sproul.M
sproul@eos.ap.org	Work: 609-860-7120
North Brunswick, NJ	Fax: 609-860-7129
http://pilot.njin.net/~msproul	

48. Re: [APRSSIG:4165] MKMAPHK1.EXE

From: gerry@cs.tamu.edu (Gerry Creager)
Date: Fri, 03 Nov 95 08:58:10 EST
To: aprssig@tapr.org
Message-ID: <199511031408.IAA20105@cs.tamu.edu>
Rendered body type: text/plain

On Fri, 3 Nov 1995 01:19:25 -0600 you wrote:

>I double-checked and it seems I'm missing the EXTRACT.exe program which
>apparently is needed to process the raw, just decompressed, usgs map data.
>Would someone please confirm whether I need extract.....I will search the
>usgs ftp site again.....I did find something in the APRS files named
>USGSMAP1.bas, is that the EXTRACT program in disguise ??

You missed my note. Wander off to ftp.tapr.org and in
tapr/SIG/aprssi/upload, look for UNBLOCK.ZIP. Grab it, unzip the
short basic program in there and apply THAT to your unformatted (and
hopefully, OPTIONAL format) files. MKMAPHK1 will be happy then.

73, gerry

Gerry Creager N5JXS SAREX Co-Investigator
n5jxs@tamu.edu
gerry@rsgis3.tamu.edu

49. Re: [APRSSIG:4167] Problems ??

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 3 Nov 1995 10:13:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103100208.8983B-100000@greatlakes>
Rendered body type: text/plain

On Fri, 3 Nov 1995 elekesa@cadvision.com wrote:

> 1? - When I am driving, is there anyway to erase my callsign at my
> position while the screen updates? It seems to get very messy after awhile.
> Once I press the spacebar, it clears up, however I loose my track history

APR REPLY: a) do an OPS replay, to restore your track footprints AND/OR
turn calsigns off with the MAPS-FEATURES-CALLS

>

> 2? - How is it that two of the exact setups on two different stations
> cannot hear each others beacons? One may hear the other, but not visa versa?

APR REPLY: If there are 2 stations that hear YOU, and you use RELAY, then
they will BOTH digipeat and a 4th station that also hears BOTH of those
stations will ALWAYS hear a collision. INTELLIGENT choice of PATHS is
the MOST IMPORTANT thing to figure out about APRS. THERE IS NO ONE
ANSWER. You must always make your path appropriate for your position

>

> 3? - What is RELAY, RELAY,WIDE, WIDE,WIDE? Which is better to use
> as a mobile station?

>

APR REPLY: See 2 above. It totally depends on your local area, digis, and
stations near you...

50. Re: [APRSSIG:4167] Problems ??

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 3 Nov 1995 10:14:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103101321.8983C-100000@greatlakes>
Rendered body type: text/plain

Error 5 is an illegal function call. could be a million things
error 6 is OVERFLOW. Usually you are zoomed into far

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

51. DIGIS and rules

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 3 Nov 1995 10:22:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103101542.8983D-100000@greatlakes>
Rendered body type: text/plain

As soon as you make a rule, there are exceptions!
When I said that sending your APRS mobile posits out on VHF every day while you commute was not a good idea,.....

I was NOT thinking about ANYONE in particular, hi hi

In fact, I certainly don't mind seeing those APRS commuters every day in and day out. We have 2 in our area, and I am VERY happy to see them mobile always! That's what APRS was for...

Our local APRS mobile uses several different paths in his TNC so that his posit goes out once every 40 seconds on VHF local, once every few minutes via a few digis, and once every now and then via GATE..

A perfectly NEAT way to do it...

See next message about RELAY,WIDE,WIDE

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

52. RELAY,WIDE, etc

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 3 Nov 1995 10:30:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103102219.8983E-100000@greatlakes>
Rendered body type: text/plain

W7KKE was visiting APRS mobile from CALIF to the DC area, and was amazed how hard it was to be seen going via WIDE (without a few mountain digis)

This was a lesson to me.

We have been pushing the conversion of all WIDE digis to be WIDE-RELAY digipeaters, so that mobiles can use the path of RELAY,WIDE. On our flat earth EAST COAST this is needed so that the mobiles can be seen when they are beyond the range of a WIDE, but are passing near someone's home station. This works WELL..... (here)

Ken pointed out that doing that in CALIF where there are lots of home APRS stations that themselves are on mountains, may NOT be a good idea. If 2 or more home station RELAYS digipeat the packet, then BOTH signals collide at the input to the WIDE, and it never gets digipeated via the WIDE.

The lesson is: Use your head. Don't depend on fixed answers to anything. Topology is what determines VHF communications ranges, and TOPOLOGY is unique to YOUR area. Also the location of RELAYS, and WIDES is UNIQUE to your area. Pre-load several possible paths in your OPS-DIGIS table and change them on the fly as needed as you pass from area to area.... Good luck, hi hi!

DE
WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

53. New USGS Format??

From: Lykes Steamship_Co <steamshp@cftnet.com>
Date: Fri, 3 Nov 1995 11:09:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103105650.19670A-100000@hawk.cftnet.com>
Rendered body type: text/plain

Greetings, all. I've been downloading map data for a while now, and noticed yesterday that they were "Down due to Hardware Problems." Today, they are back up, but they seem to have put a new CD in the jukebox (or however they store their data). Now, instead of the 2M data being divided into regions (lower_mississippi_valley, southeastern_states, etc) they are now divided into individual states. Also, data for each layer of features is stored in a .tar.gz. Upon downloading and decompressing

these, I found that the .GRA files are no longer included here. The only files the archive contains are .DDF extended. Is there a way to convert these .DDF files to the .GRA graphic format required by MAPFIX? Or could someone provide me with a conversion method so I can write a program to do this.

One of the readme files said that the .OPT and .STD data would be available on magnetic and optical media 'at cost'. Does this mean it will no longer be available online?

If I've missed something, or just didn't look deep enough, I apologize, but a slight panic mode set in when my data source dried up overnight.

Chris Cannon, KB5YRZ

(Trying to make some good LA maps, but running into walls.)

PS I was getting the data from edcftp.cr.usgs.gov. Are there other sites that still have the .GRA data?

54. Re: [APRSSIG:4174] RELAY,WIDE, etc

From: Randy Hammock <hammock@tis.telos.com>
Date: Fri, 3 Nov 1995 11:47:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.951103111744.18166A-100000@zentropa>
Rendered body type: text/plain

On Fri, 3 Nov 1995, Bob Bruninga wrote:

> The lesson is: Use your head. Don't depend on fixed answers to
> anything. Topology is what determines VHF communications ranges, and
> TOPOLOGY is unique to YOUR area. Also the location of RELAYS, and WIDES
> is UNIQUE to your area. Pre-load several possible paths in your
> OPS-DIGIS table and change them on the fly as needed as you pass from
> area to area.... Good luck, hi hi!

I can see APRS evolving into something not unlike cellular phones, which would be a more automated system of what was described in the CAP Arizona Wing APRS reports for operation. If TNCs can be remotely programmed, I envision that there be master control stations stationed throughout the country, which monitor the activities, "seeing" where the various stations are headed and performing dynamic settings changes to the users so that they get the best coverage on the system. The master control stations can even automatically control traffic in certain areas so as to restrict the amount traffic not associated with an event (emergency, marathon, etc.). For that matter, an area can be isolated for a local event and other traffic routed around that area, so that the local event doesn't completely break a chain.

The big problem I see here is that hams don't like to be told what they can do and where they can do it, and to allow some autonomous machine take over the configuration of ones own equipment is unthinkable. Thus we will never realize a truly workable solution to APRS being plug-n-play or for that matter effective nation/world-wide packet networking.

Want to prove me wrong? Go ahead, make my day ;-)

--

Randy Hammock KC6HUR		Randy.Hammock@Telos.com
Telos Information Systems - EDOS		hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400		Voice: +1 301 507-5904
Greenbelt, Maryland 20770		FAX: +1 301 507-5892

55. DFjr survey

From: JAgrelo@aol.com
Date: Fri, 3 Nov 1995 12:16:29 -0500
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <951103121629_11803989@mail04.mail.aol.com>
Rendered body type: text/plain

Anyone interested in participating in the
the DFjr faceplate color scheme survey.

Visit our home page at: <http://hoem.navisoft.com/agrelo/ae.htm>
and click on DFjr (lots of new stuff).

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering

Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor
based Doppler and talking products

Experts in Microchip and Motorola processors

56. Re: [APRSSIG:4152] "Y" Cable for mobil APRS

From: philkeys@olympus.net (Phil Keys)
Date: Fri, 3 Nov 1995 09:36:39 -0800
To: aprssig@tapr.org
Message-ID: <v01510100acbf681aa05@[198.133.237.54]>
Rendered body type: text/plain

I have done what sounds like the same thing. I connected DB-9 and DB-25 connectors in parallel to the Garmin GPS-45 power/data cable so that the GPS-45 talks to both the KPC-9612 TNC and the computer. Also the computer can talk to the GPS-45 (e.g. running Gardown to upload waypoints). My laptop has only one serial port.

However the computer cannot talk to the KPC-9612. I have thought about putting a DPDT switch next to the DB-9 connector so it would switch data in and data out to the computer. Then I could switch the computer between the GPS-45 and the KPC-9612.

I set the internal jumper in my KPC-9612 to connect its internal 12 VDC power to pin 25 of the DB-25 which is connected to the GPS-45 power lead. I also connected a coaxial power jack to the power lead. With this setup, I can power both the KPC-9612 and GPS-45 from either the coaxial power jack in the cable or the one in the KPC-9612. With the coaxial power jack in the GPS-45 cable, I can also power the GPS-45 by itself when it is not connected to the KPC-9612.

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

57. Re: [APRSSIG:4030] Map14.zip

From: philkeys@olympus.net (Phil Keys)
Date: Fri, 3 Nov 1995 09:37:27 -0800
To: aprssig@tapr.org
Message-ID: <v01510107acc0015bf8d8@[198.133.237.54]>
Rendered body type: text/plain

Just now took the time to figure out what I got.

Thanks
Phil Keys

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

58. Re: [APRSSIG:4166] ATV Balloon 95

From: dwetzel@acs.uswest.com
Date: Fri, 3 Nov 1995 09:41:37 -0600
To: aprssig@tapr.org
Message-ID: <09a3d9e0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

This Saturday Nov 4, 1995 10AM EST we will launch (weather permitting) our amateur radio/atv balloon from Morehead, KY APRS/gps packet on 145.79Mhz. ATV on

439.25 Horz with GPS data overlayed with color video from 4 watt transmitter. 10

meter beacon
on 28.322Mhz. Look for several 2 mtr and 70cm linked repeaters around WV, OH and

KY. linked to the Huntington, WV 146.04/64 repeater. Hf net on 7.230 Mhz by KB8KMH. Look for check in to begin 9:00 AM EST. Would like reports sent to WA4GSS At rcurry@ramlink.net I will post an note if launch is delayed. 73, Ron,

WA4GSS

Can someone GATE this onto 30M so the rest of us can see it?

Thanks!

Doug
KC7CO
dwetzel@acs.uswest.com

59. Re: [APRSSIG:4175] New USGS Format??

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 3 Nov 1995 12:45:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511031845.MAA29790@solar.cs.tamu.edu>
Rendered body type: text/plain

Lykes Steamship_Co sez:

>
> Greetings, all. I've been downloading map data for a while now, and
> noticed yesterday that they were "Down due to Hardware Problems." Today,
> they are back up, but they seem to have put a new CD in the jukebox (or
> however they store their data). Now, instead of the 2M data being
> divided into regions (lower_mississippi_valley, southeastern_states, etc)
> they are now divided into individual states. Also, data for each layer
> of features is stored in a .tar.gz. Upon downloading and decompressing
> these, I found that the .GRA files are no longer included here. The only
> files the archive contains are .DDF extended. Is there a way to convert
> these .DDF files to the .GRA graphic format required by MAPFIX? Or could
> someone provide me with a conversion method so I can write a program to
> do this.

WOW! Good catch. I had been frustrated over the last couple of days grabbing data. I'm just about to call 'em and say, "What gives?" Don't know if it will help, but we can try.

> One of the readme files said that the .OPT and .STD data would be
> available on magnetic and optical media 'at cost'. Does this mean it
> will no longer be available online?

Apparently so! I'll post more after my conversation with 'em!

> If I've missed something, or just didn't look deep enough, I apologize,
> but a slight panic mode set in when my data source dried up overnight.

Understandable!

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

60. Re: [APRSSIG:4176] Re: RELAY,WIDE, etc

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 3 Nov 1995 14:14:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103141234.15169A-100000@greatlakes>
Rendered body type: text/plain

Regarding WIDES and RELAYS....

Since APRS KNOWS WHERE all the stations are, it would only take a little software to have APRS change the path to RELAY or to WIDE based on its knowledge of the PATH to either the nearest WIDE or nearest RELAY..

But until we get ALL APRS users to understand what HEIGHT ABOVE AVERAAAGE TERRAIN MEANS, and to put it in their POSITS, this would be a wasted exercise...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

61. Re: [APRSSIG:4175] New USGS Format??

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 3 Nov 1995 13:27:21 -0600 (CST)
To: aprssig@tapr.org

Message-ID: <199511031927.NAA00456@solar.cs.tamu.edu>
Rendered body type: text/plain

I just got off the phone with the EROS Data Center Customer Support folks. They were as surprised as we were! I should be hearing back from them as to where we can get the .GRA files, -OR- some mechanism to convert the "new and improved" SDTS format.

More data as I obtain it!

gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

62. MKMAPHK1 and Unblock

From: "L. J. Shepherd" <ljs@west.net>
Date: Fri, 03 Nov 1995 11:30:19 -0800
To: aprssig@tapr.org
Message-ID: <199511031930.LAA23108@acme.sb.west.net>
Rendered body type: text/plain

Hello Group:

Many thanks to all who so kindly responded, including Ted, D.Barrett, Rick and Gerry. All of you quickly identified the need for my usage of the UNBLOCK routine to add cr/lf's to my decompressed map files. I have processed the files as you suggested and have successfully created a nice local street map of my area of Santa Barbara. Thanks again for your help !
73, Jim K60YY TAPR 502

63. RE:[APRSSIG 4182]

From: intercomm.net!wnolle@tapr.org (William Nolle)
Date: Fri, 03 Nov 1995 13:43:13
To: tapr.org!aprssig@tapr.org
Message-ID: <199511031943.NAA21748@sys1.tapr.org>
Rendered body type: text/plain

There are many many digi owners that don't understand what ABOVE AVERAGE TERAIRN REALY IS!. We have one here in Alabama (I won't mention the call) that is the BIGGEST EGO DIGI in the south. His coverage circle just touchess my qth, in reality meaning i should be able to hit him with an HT. But the reality is sometimes i can't even hit it with my stacked 13B2's +300w pointing right at it. At the outset of the digi first showing on the map i had made a call to him discussing how important this item is to the users. Well the only answer i got from him was that he knows all about this stuff "I have been a ham for 30 years" What he did was took the hight of the mountain and added his tower height to this figure, and that is his HAAT. All i have to say to the old timers (Learn the new ways and technoligy). Go ahead with the flames I'M AN OLD HAM O CAN TAKE IT, don't the call fool you in to thinking i'm a new ham hi.

Bill KE4EER
wnolle@intercomm.net (Will be KE4EER@ro.com after Saturday).

64. Ver APRS74b

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 3 Nov 1995 15:21:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103143748.15169C-100000@greatlakes>
Rendered body type: text/plain

This is a minor tweak in features, and some re-writing of some of the README files to catch up :

- * Fixes DOZ Crash if you bump the mouse
- * Adds U/D/G to MAPS menu commands for single finger mobile ops for laptops that do not have separate PgUP/DN/HOME keys
- * Adds F3/4 keys for bringing up more/less map labels. Useful for mobiles in areas with little activity to see more labels at higher map ranges
- * Adds MKMAPHK1.bas to distro, but you need QB.EXE not just QBasic to run it. So get MKMAPHK1.EXE from the SIG. (makes 100k maps easier from USGS CD)
- * MOUSE ZOOM not limited to only factors displayed on MENU BAR. Zoom by factors up to 1024 or more by clicking beyond ends of ZOOM menu
- * Averages WX stn wind speed over last minute
- * Added South Pacific MAP to WEST distro and some islands to WORLD (Maps done by W7KKE)
- * Added Glasgow Montana map to CENTRAL distro
- * Changed name of MONTANA.map to MTState.map

Ver 74a was on ARN BBS for about 6 hours when I got a LATE bug report on 74, so I re-did it all as 74b. Am uploading 74B over next hour or so, wo wait until 2200z before you ftp. It is on ARN BBS 410 280-2503 now.

Look for either APRS74b.zip, 72cto74b.zip or 73dto74b.zip

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

65. RE: [APRSSIG:4185] RE:[APRSSIG 4182]

From: "Richard L. Holbert" <rhobert@manny.rcinet.com>
Date: Fri, 3 Nov 1995 15:34:14
To: aprssig@tapr.org
Message-ID: <199511032035.PAA01832@manny.rcinet.com>
Rendered body type: text/plain

It seems it's a common mistake. I did the same thing untill another digi here in OH asked me if I was using a TV transmitter tower to get 1200' HAAT! I'm now using a more conservative 200' HAAT for my 985' ASL antenna.

Later!

Rick, KB8DNR-1 Wide Area Digi in Dayton OH (39 46.25N 084 05.43W)

```
*****
*   Richard L. Holbert   *   Home:   rhobert@rcinet.com           *
*                       *   Work:   rhobert@arinc.com           *
*****
*                       *   WWW:    http://www.dma.org/~holbertr/ *
*                       *   Radio:   KB8DNR                     *
*                       *   ICBM:    39 46 N Lat 84 05 W Lon      *
*****
```

66. USGS 1:2M data format change!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 3 Nov 1995 15:02:17 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511032102.PAA02223@solar.cs.tamu.edu>
Rendered body type: text/plain

I just talked to one of the Customer Service Reps. Per a mandate from Reston, VA (the home of USGS) there was a format change consistent with USGS maps and data formats. It was not carried out consistent with their normal mechanism. In fact, the Customer Service Reps didn't know it was gonna happen!

I've been advised to send a FAX detailing what we're doing with the 1:2M data, and what the potential impacts of the loss of this data are. Of note, the data are still available, "for a fee."

>From where I sit, and based on the EROS announcement that they're trying to make all products available via internet, this looks like a policy change or violation. I'm suggesting we all FAX the following folks, with a reasoned, thought-out letter concerning what we do with the data (Maps for skywarn, public service events, etc), what the impact of unavailability is (new tools required to create these same maps, with the requisite time to develop these), and our desire to see 'em back up.

Donna Scholtz 605-594-6589

You can send similar information to glis@edcserver1.cr.usgs.gov, with a note directing this to Sandy Spanton and/or Donna Scholtz.

Fire up those word-processors, folks!

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

67. APRS74b upgrades only

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 3 Nov 1995 16:03:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103160109.17307A-100000@greatlakes>

Rendered body type: text/plain

I was able to FTP both of the upgrade files, but the APRS74b.zip just will not upload with kermit to my file server...

Would the first person that gets it from the BBS 410 280-2503 please try to ftp it on their end? And tell us all if you are successful...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

68. USGS 1:2M data cheap!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 3 Nov 1995 16:46:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103163941.17836A-100000@greatlakes>
Rendered body type: text/plain

USGS data. I donno about you guys, but the \$32 I spent to get the entire USA CD ROM at the 2M scale sure is a LOT easier that what you guys are going through to get free data, hi hi

And since most folks are only intersted in streets in their states, It would seem like purchasing one of the 100K CDs for your area is also \$32 well spent. (to avoid being dependent on netorks and someone elses up/down computers..) hi hi

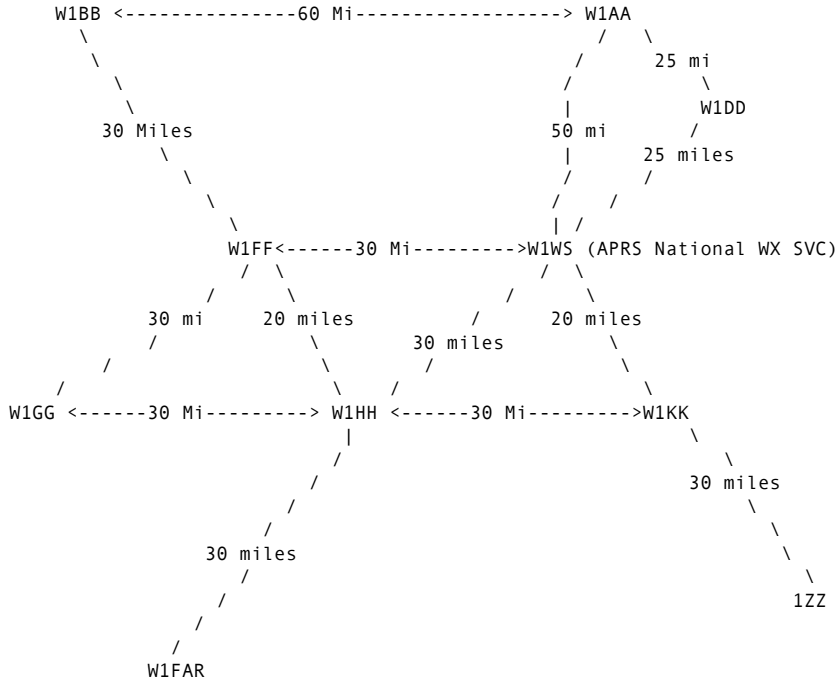
Am I overlooking something?

De WB4APR

69. Unproto path

From: "John W. (Bill) Hays, W00MV" <billh@netins.net>
Date: Fri, 03 Nov 1995 15:52:22 CST
To: aprssig@tapr.org
Message-ID: <00998D8C.D3BEDB1F.177@netins.net>
Rendered body type: text/plain

Given the following:



Problem: How do we set each stations' unproto path to insure rcpt of all WX info originated by the NWS station at W1NWS and at the same time letting the outlying stations feed WX info back to the NWS?

73, Bill billh@netins.net

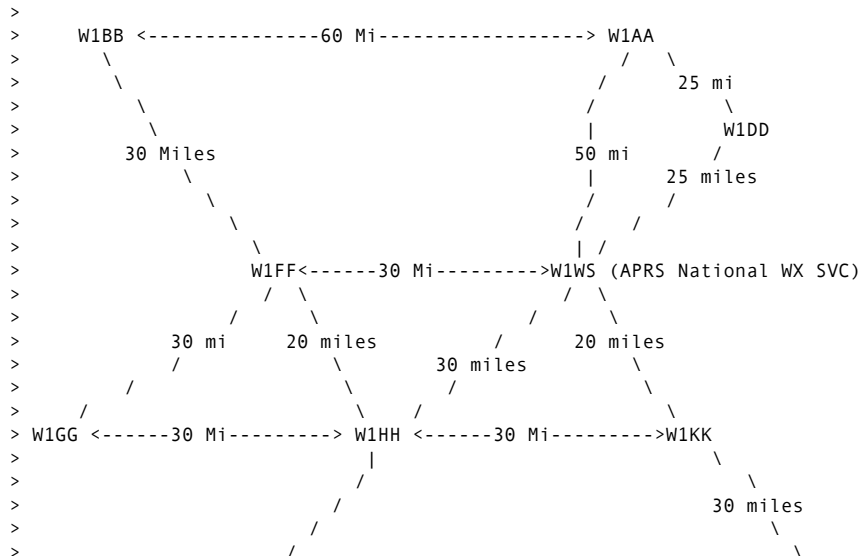
70. Re: [APRSSIG:4190] USGS 1:2M data cheap!

```
>USGS data. I donno about you guys, but the $32 I spent to get the entire
>USA CD ROM at the 2M scale sure is a LOT easier that what you guys are
>going through to get free data, hi hi
>
>And since most folks are only intersted in streets in their states, It
>would seem like purchasing one of the 100K CDs for your area is
>also $32 well spent. (to avoid being dependent on netorks and
>someone elses up/down computers..) hi hi
>
>Am I overlooking something?
>
>De WB4APR
```

Dave

From: Bob Bruninga <bruninga@nads.navy.mil>
Date: Fri, 3 Nov 1995 17:40:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103173413.19200B-100000@greatlakes>
Rendered body type: text/plain

```
W1BB goes via W1FF,W1HH,W1WS,W1KK
W1AA goes via W1WS,W1KK,W1HH,W1FF
W1ZZ goes via W1KK,W1HH,W1FF,W1WS
W1FAR goes via W1HH,W1FF,W1WS,W1KK
etc
```



```
>
>                                     \
>                                   /
>                                /
>                             /
>                          /
>                       /
>                    /
>                 /
>            W1FAR
>
> Problem: How do we set each stations' unproto path to insure rcpt of
> all WX info originated by the NWS station at W1NWS and at the same
> time letting the outlying stations feed WX info back to the NWS?
>
>
> 73, Bill billh@netins.net
>
```

72. Re: [APRSSIG:4190] USGS 1:2M data cheap!

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Fri, 3 Nov 1995 16:40:22 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511032240.QAA03703@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Bruninga sez:

```
> USGS data. I donno about you guys, but the $32 I spent to get the entire
> USA CD ROM at the 2M scale sure is a LOT easier that what you guys are
> going through to get free data, hi hi
```

Depends on what you have to do with it. I happen to use a lot of the coverages here at work. And, it is a matter of principle: They should not claim they're going to make data available, and then snag something back without notification! C'mon Bob, your work for the government! There are mechanisms and procedures to follow, especially when you have a user base. I was told they didn't even follow their own procedures.

FURTHER: It takes me more hard disk space to process the CD data using xtract than it does to do the manipulations I'm doing right now. And, I can flush the files when I am done, knowing I can get 'em back later via the net. Remember, at work I am on a T3, so I have decent bandwidth. I was IO limited by the FTP server over at USGS, and they have fixed that now!

```
> And since most folks are only intersted in streets in their states, It
> would seem like purchasing one of the 100K CDs for your area is
> also $32 well spent.  (to avoid being dependent on networks and
> someone elses up/down computers..) hi hi
```

CD caddies are at a premium. And I have to hit a number of areas. I don't have a CD jukebox handy that'll mount 32 CDs. Nope, I think I'll continue to depend on the network that I've lived with for the last 13 years. It's served me pretty well!

> Am I overlooking something?

Well, not to be too harsh, but I think so!

73, gerry

— —

[illegible]

73. cheap CD's for MAPS

From: Bob Bruninga <bruninga@nads.navy.mil>
Date: Fri, 3 Nov 1995 17:44:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103174252.19200D-100000@greatlakes>
Rendered body type: text/plain

```
> >And since most folks are only intersted in streets in their states, It
> >would seem like purchasing one of the 100K CDs for your area is
> >also $32 well spent. (to avoid being dependent on netorks and
> >someone elses up/down computers..) hi hi
>
> Please provide ordering information.
```

SEE the APRS\README\MAPS-CD.txt included in all APRS versions...

74. Re: [APRSSIG:4192] Re: USGS 1:2M data cheap!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 3 Nov 1995 16:43:14 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511032243.QAA03776@solar.cs.tamu.edu>
Rendered body type: text/plain

I'll provide more data on ordering when the system comes back up. It's available on the web at edcwww.cr.usgs.gov

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

75. MAKEMAPS 100 LESSONS LEARNED

From: DDOBBINS@aol.com
Date: Fri, 3 Nov 1995 18:32:57 -0500
To: aprssig@tapr.org
Message-ID: <951103183254_97375196@emout05.mail.aol.com>
Rendered body type: text/plain

Aloha de Dave/WH6YC. Have been using the new MakeMap program deriving DLG data from the USGS 1:100,000 CDR0M (off the actual disk, vice FTP). I easily created about a dozen ONE mile maps and have been checking them for alignment with the various island maps. I have confidence in the accuracy of my 1:2M derived maps of Oahu and other islands, as they been error corrected w/GPS using the HST overlay method. Now I find that the smaller "street-level" maps don't line up very well, at the ONE mile map range. Have found them to be about 3/4 to 1 inch up and to the left of where I think they should be. Accordingly, I edited the map to move the origin and center coordinates down and to the right by .003 each. This gives me a much better alignment, although not yet perfect.

Has anybody else using this program checked the new maps against existing one's for alignment? If so, what did you do to correct the alignment?

Back to the beach. BTW, it snowed on Mt. Haleakala on the Big Island yesterday. But I still went to the beach anyway. 10-12 footers expected today/tomorrow on the north shore of Oahu, as a storm front passes to the north.

Aloha, Dave.

76. Re: [APRSSIG:4147] Re: Weather Stations

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Fri, 03 Nov 1995 18:40:02 -0500
To: aprssig@tapr.org
Message-ID: <199511032344.SAA21352@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 10:16 AM 11/2/95 -0600, you wrote:

>

>APRS ONLY works with the ULTIMETER. Call Peet Bros. and see if that is
>one of theirs under a different name. The price sounds right for an
>Ultimeter-II which is also \$179.

>

>I believe the MacAPRS also works with a DAVIS instrument...

>

Is this true? I thought Davis had a propriatory format and woyuldn't relaease it. If it is true, will the function be avail in the future Windows PC version?

Bob Kirk
N30ZB

77. Re: [APRSSIG:4195] cheap CD's for MAPS

From: DDOBBINS@aol.com
Date: Fri, 3 Nov 1995 18:43:21 -0500
To: aprssig@tapr.org
Message-ID: <951103184320_97384215@emout05.mail.aol.com>
Rendered body type: text/plain

In a message dated 95-11-03 18:03:13 EST, you write:

>> Please provide ordering information.

Call the USGS at 1-800-USA-MAPS and they'll tell you how to order the CDROM. Make sure you ask for the OPTIONAL format. I faxed my order and had the CDROM in two weeks. It's much easier than downloading via FTP. Have made a number of maps real quick..... Aloha, Dave.

78. Re: [APRSSIG:4182] Re: RELAY,WIDE, etc

From: KD4EMI@aol.com
Date: Fri, 3 Nov 1995 18:55:16 -0500
To: aprssig@tapr.org
Message-ID: <951103185516_80738782@emout04.mail.aol.com>
Rendered body type: text/plain

I wish there were some way that the software could automatically make it's own judgement as to what the alias is. We have so many people down here that want to be wides, there are collisions all the time.

I hope that this is pondered in the next version.

Mike KD4EMI
(South Florida...where everyone's a wide)

79. RE: Weather Stations

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Fri, 3 Nov 95 20:13:28 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.815447608.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

MacAPRS works with the Ultimeter and now also the Heathkit Weather Station.

It does not work with the Davis unit, if it did, I would have given the info on how to do it to Bob a LONG time ago..

Recently the DAVIS unit was seen by somebody for sale in a DAMARK catalog (an electronics clearance house). Could this be what was seen?

Also, Last time anyone checked, DAVIS wanted programmers to sign a DAVIS EXCLUSIVE agreement in order to get the info to hook up to their equipment.. NO THANK-YOU...

If someone went to the trouble to reverse-engineer the DAVIS stuff and give it to me, I might implement it, but I am not very interested in their DAVIS ONLY attitude..

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

80. Re: [APRSSIG:4182] Re: RELAY,WIDE, etc

From: rwf <rwf@mindspring.com>
Date: Fri, 3 Nov 1995 20:34:47 -0500
To: aprssig@tapr.org
Message-ID: <199511040134.UAA19393@dylan.mindspring.com>
Rendered body type: text/plain

Yes, I think a few folks still do not know what HAAT is! We have user now (sort of nearby- well within 1 digi hop range)that has decided to use that big EG0tower symbol and set his PHG to 9993. And this is on his home station.

His circle covers most of Alabama, GA, TN, and a little of SC, and KY and MS. Figured out who it is yet?

I think we should lead by example, and this is a poor example for the new users now coming on line.

And Bob, I like the new, smaller house symbol. Could you please get rid of that tower symbol. Not only does it feed the EG0peaters, but it takes up too much room on the screen as well.

We have also got a person who is running his UNproto as Relay and has his

home station set to WIDE. He's not cooperating with anyone or responding to messages and he did not work with the net when he did this. He is 5 miles from a WIDE on a 180 ft tower and you can imagine the horrible QRM being caused. We have put him in the Budlist of two digis to try to get his attention, but he can still hit a WIDE that is about 75 miles away.

How do the rest of y'all handle operators like this?

And Bob, what about making it require being registered before being allowed to set your alias to wide?

73

Ralph N4NEQ
Look for me in Indy until Wednesday

At 01:21 PM 11/3/95 -0600, you wrote:
>Regarding WIDES and RELAYS...
>
>Since APRS KNOWS WHERE all the stations are, it would only take a little
>software to have APRS change the path to RELAY or to WIDE based on its
>knowledge of the PATH to either the nearest WIDE or nearest RELAY..
>
>But until we get ALL APRS users to understand what HEIGHT ABOVE
>AVERAAAAAGE TERRAIN MEANS, and to put it in their POSITS, this would be a
>wasted exercise...
>
>
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
>
>
>

81. Re: [APRSSIG:4190] USGS 1:2M data cheap!

From: rwf <rwf@mindspring.com>
Date: Fri, 3 Nov 1995 20:44:06 -0500
To: aprssig@tapr.org
Message-ID: <199511040144.UAA20998@dylan.mindspring.com>
Rendered body type: text/plain

Probably not, but the phrase "At Cost" bothers me.
Pilots may remember what happened to the price of Aeronautical charts when the government decided to sell them "at cost".
The price more than doubled, as I recall.

Ralph
N4NEQ
rwf@mindspring.com

At 04:01 PM 11/3/95 -0600, you wrote:
>USGS data. I donno about you guys, but the \$32 I spent to get the entire
>USA CD ROM at the 2M scale sure is a LOT easier that what you guys are
>going through to get free data, hi hi
>
>And since most folks are only intersted in streets in their states, It
>would seem like purchasing one of the 100K CDs for your area is
>also \$32 well spent. (to avoid being dependent on netorks and
>someone elses up/down computers..) hi hi
>
>Am I overlooking something?
>
>De WB4APR
>
>
>
>

82. Re: [APRSSIG:4189] APRS74b upgrades only

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>
Date: Fri, 03 Nov 1995 21:29:40 -0500
To: aprssig@tapr.org

Message-ID: <309AD014.674B@wingsbbs.com>
Rendered body type: text/plain

Bob Bruninga wrote:

>
> I was able to FTP both of the upgrade files, but the APRS74b.zip
> just will not upload with kermit to my file server...
>
> Would the first person that gets it from the BBS 410 280-2503 please try
> to ftp it on their end? And tell us all if you are successful...
>
> DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

It has been done...

Sam - WJ8T

83. Re: [APRSSIG:4202] Re: RELAY,WIDE, etc

From: "Demos Doulou" <ddoulou@tesla.netline.net>
Date: Fri, 3 Nov 1995 21:39:17 +0005
To: aprssig@tapr.org
Message-ID: <199511040238.VAA14717@tesla.netline.net>
Rendered body type: text/plain

>
> We have also got a person who is running his UNproto as Relay and has his
> home station set to WIDE. He's not cooperating with anyone or responding to
> messages and he did not work with the net when he did this. He is 5 miles
> from a WIDE on a 180 ft tower and you can imagine the horrible QRM being
> caused. We have put him in the Budlist of two digis to try to get his
> attention, but
> he can still hit a WIDE that is about 75 miles away.
>
> How do the rest of y'all handle operators like this?

Shoot the SOB.

> And Bob, what about making it require being registered before being allowed
> to set your alias to wide?
>
>

Good idea.

73 Demos KR4US

84. Cooperation & Ego's

From: W2H0B@aol.com
Date: Fri, 3 Nov 1995 22:20:16 -0500
To: aprssig@tapr.org
Message-ID: <951103222015_80798329@emout05.mail.aol.com>
Rendered body type: text/plain

For those of you who are having problems with folks having big egos, I feel
sorry for you.
It's a shame, but up here in Jersey, we did a mature and logical thing... we
had a meeting!

Those of us who had been working with APRS a while (and with packet in
general) and felt reasonably comfortable with things, got together and talked
about the "network". My feelings
were if nothing at all was done, 145.79 would suffer the demise of all the
other packet freqs.

You know... congestion and pandemonium! I felt we had to plan, stick to such
a plan, and encourage everyone else to "see the light" and stick with us.

We had the benefit of Keith WU2Z in attenmdance... showing us the MAC version
as well as enlightened commentary on several aspects we wanted to persue.

After an agreement to place WIDEs at strategic locations, we then set about
to "mention" to clubs and on-the-air chats that the
"WIDE Net" was almost in place, that no more would be encouraged, and users
could now set
about to USE the WIDE Net for GPS mobiling, weather stations, DF'ing, etc
etc.

It's worked and while we're always interested in tweaking the Network we're
careful about it.

Users in Central and Southern New Jersey have settled into the comfort that such a net exists;
they didn't have to finance anything. They can now "play" to their hearts content.

We have pie-in-the-sky ideas yet to be built, and, we'll get there... just takes time and money
but what the heck! My point is... get everyone concerned to sit down and talk it out. Plan on an
8-hour day meeting... bring in food... we had a real good time. We planned for another, but
time and schedules haven't allowed that yet.

Only modify the plan with everyone having some input... no one should be the "boss".

Of course, I wish you all could have the good luck and good intentions found in Jersey.
But, I know the best laid plans of mice and men... ho hum!

Oh well... my two-cents for what it was worth.
Above all, have fun.
73 de Boyd W2HOB@aol.com

85. Re: [APRSSIG:4205] Re: RELAY,WIDE, etc

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 3 Nov 1995 21:31:23 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511040331.VAA02532@solar.cs.tamu.edu>
Rendered body type: text/plain

Demos Doulou sez:
> Shoot the SOB.

To quote Robert heinlein, "It's but a momentary pleasure, and bound to get you talked about."

73, gerry

86. Makin maps galore!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 3 Nov 1995 23:22:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951103231838.20739D-100000@greatlakes>
Rendered body type: text/plain

Y'all remember Ole' timer Bill Nolle in ALabama. He is even OLDER than me, and yet he has mastered the new MKMAPHK1.EXE program in one day and now is making street level maps from his \$32 CD at 6 minutes a pop!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

----- Forwarded message -----
Date: Fri, 03 Nov 1995 21:07:56
From: William Nolle <wnolle@intercomm.net>
To: bruninga@nadn.navy.mil

By the way i now have 120 detailed maps for Alabama (63 for Birmingham alone) With this new software i can make a very detailed map that just borders 2950 points inside of 6 minutes (Of course this is with a 90Mhz Pentium).
The program does have a few bug but i have learned to work around them.

Bill KE4EER
wnolle@intercomm.net (ke4eer@ro.com Saturday I hope)...

87. MKMAPK1.EXE ERRORS

From: intercomm.net!wnolle@tapr.org (William Nolle)
Date: Sat, 04 Nov 1995 03:03:46
To: tapr.org!aprssig@tapr.org
Message-ID: <199511040903.DAA20052@sys1.tapr.org>
Rendered body type: text/plain

Someone on the sig asked for me to post the errors you get with this program and how to get around those and get good maps. Well there's one error message you always get and that is the following:

STOP in line No line number in module MKMAPK1 at address 1562:1199

Hit any key to return to system.

Just totally ignore that one by hitting any key hi.

When making a very detailed 2 mile map you probably will never even finish before either your system locks up or get the following message:

Device unavailable in line No line number in module MKMAPK1 at address 1562:051D

There is no way around this one, i have found that you just cannot make a detailed 2 mile map AT ALL so don't even try. you may get away with a smaller range like 1.5 1.6 1.7 etc. even if it makes it all the way trough the chaining segments portion of the operation you will find a file with no data in it at all.

Now i have found that as stated in the doc file that with some maps aftyer the chaining secment process, then hitting a key as stated will make a mess ot of the map. In most cases you will find that be deleting your map and then renaming the XXXX.DAT file will give you a good map that in 90% of the maps is below the 3000 point limit anyway. In some cases i only had to trim a few points from the outside of the map.

I have timed the building of a very very detailed 1 mile maps and over 5 maps it didn't take me more then 25 minutes (That of course is with a 90Mhz pentium). I have build a total of 137 maps since downloading MKMAPK1.EXE and i guess have already been appointed Alabama map coordinator Thanks Bob hi. Also a little tidbit i will use Birmingham Alabama as an example. I first make a 10 mile map with the -10 i then take this file and draw my map gridwork on it with 1 mile gridwork. I then know ahead of time how many maps it will take. Then i take a coordinance reading in the top horizontal row and first vertical row, from then on you will be able to figure the coordinance for the whole gridwork. I hope i'm making this clear enough. I'm lucky to have a programmable keyboard. I program all the coordinance for a whole row of maps that way and also all but the last character or letter of the map name. and also a key telling the system where to find the CD files. Well i hope this will be of some help to the person that has had problems using MKMAPK1.EXE

Bill KE4EER
jwnolle@intercomm.net
row

88. Re: [APRSSIG:4155] APRS Help

From: "Jim Lynch" <k4gvo@america.net>
Date: Sat, 4 Nov 1995 06:45:37 +0000
To: ah586@detroit.freenet.org (Steve Sable), aprssig@tapr.org
Message-ID: <199511041057.KAA14226@america.net>
Rendered body type: text/plain

> Date: Thu, 2 Nov 1995 14:43:52 -0600
> Reply-to: aprssig@tapr.org
> From: ah586@detroit.freenet.org (Steve Sable)
> To: aprssig@tapr.org
> Subject: [APRSSIG:4155] APRS Help

>
>
> Dont know if this is a proper place to ask
> for help on APRS.
> Have a Pk-900 and cant get APRS to receive
> or trnasmit. I do a complete TNC reset and
> re-initialiaze the TNC and just use the
> defaults but no go. Once got it to monitor
> VHF but the beacon went out on HF. Would like
> to see the prog work one time.
> I have a Pentium with WIN95 but run APRS from DOS.
> Am also trying APRS73D. Alot of times when APRS screen
> comes up, if I try to goto TNC commands, the computer
> locks up. Any hints to start me?
> CUL ah586@detroit.freenet.org
>
>
> --
>
> _ _ | _ _ | _ | \ \ / / _ | ah586@detroit.freenet.org
> \ _ \ _ | _ | \ \ / / _ | N8NYU
> _ _ / _ | _ | \ \ / / _ | Maybee, Michigan
>
>
>
Steve,

Bob Bruning seems to be completely un-interested in the PK-900. I've ask him for help twice now even volunteering to help in one case and he hasn't bothered to even reply. Mine is working in either hf or vhf mode, but I have to switch it manually. Use the switch character to select radio 1 or radio 2. The default switch character is the vertical bar (|). The channel selection character follows the switch character. So to select radio 1 (HF)

type: |0 (Enter)

and to select radio 2 (VHF)

type: |A(Enter)

Be a little careful since the PK-900 isn't supported and I've found the program will reset things like hbaud and vhf on radio 1.

Drop me a note if you are still having problems. I've been able to make the pk-900 rec/transmit on VHF while receiving on HF, thus getting 75% functionality.

73,

Jim.

Jim Lynch	Fayetteville, GA	K4GVO
'86 GL1200I	k4gvo@america.net	44.36.34.20

89. VE3DKQ-15 Mobile to Florida

From: mwalker@interlog.com (Mike Walker)
Date: Sat, 04 Nov 95 08:01:46 EST
To: aprssig@tapr.org
Message-ID: <199511041300.IAA20923@gold.interlog.com>
Rendered body type: text/plain

VE3DKQ-15 is mobile to Florida.

If anyone hears him, can you uplink him on 30m so we can see him hear back in Toronto...

Many thanks...mike

Mike Walker	mwalker@interlog.com
127 High St. W.	rf: va3mw@va3bbs
Mississauga, ON	
L5H 1K4	

90. Re: Ultimeter 500

From: wricharz@ix.netcom.com (William Richarz)
Date: Sat, 04 Nov 1995 12:41:45 -0500
To: aprssig@tapr.org
Message-ID: <199511041740.JAA01207@ix11.ix.netcom.com>
Rendered body type: text/plain

Wonder if anyone knows anything about the Ultimeter 500? looks like it's a later version of the Ultimeter II...the price is more in my budget than the 2000.

Does APRS now support the Ultimeter 500, if so I plan to order one of these nicer but less expensive than the Ultimeter 2000?

Been reading the mail in this sig for about 2 weeks now & it really is a big help to a newcomer like me. Thanks for all the help.

Bill Richarz <WA4VAF>
wicharz@ix.netcom.com

91. Re: [APRSSIG:4212] Re: Ultimeter 500

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 4 Nov 1995 13:45:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951104134434.22257B-100000@greatlakes>
Rendered body type: text/plain

Yes, APRS will be compatible with the U-500....

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

On Sat, 4 Nov 1995, William Richarz wrote:

> Wonder if anyone knows anything about the Ultimeter 500? looks like it's a
> later version of the Ultimeter II...the price is more in my budget than the
> 2000.

>
> Does APRS now support the Ultimeter 500, if so I plan to order one of these
> nicer but less expensive than the Ultimeter 2000?

92. aprs

From: rys@nedernet.nl (Gerard Rijs)
Date: Sat, 4 Nov 1995 22:30:29 +0100
To: aprssig@tapr.org
Message-ID: <9511042130.AA25249@alpha.nedernet.nl>
Rendered body type: text/plain

Hello Bob
I am now on Internet but cannot find your new program. On which FTP-server
is it?
Looking forward to your reply

Best Regards

Ger, PA0RYS

93. Re: [APRSSIG:4214] aprs

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Sat, 4 Nov 95 17:10:40 EST
To: aprssig@tapr.org, rys@nedernet.nl
Message-ID: <CMM-RU.1.4.815523040.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

The APRS programs are on

ftp.tapr.org

in

/tapr/SIG/aprssi/upload/

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

94. Re: [APRSSIG:4215] Re: aprs

From: Steve <sdimse@bridge.net>
Date: Sat, 4 Nov 1995 18:50:02 -0500
To: <aprssig@tapr.org>
Message-ID: <199511042350.SAA11734@brickell.bridge.net>
Rendered body type: text/plain

>Subject: [APRSSIG:4215] Re: aprs
>Sent: 11/04 5:19 PM
>Received: 11/04 5:50 PM
>From: Keith Sproul, ksproul@hardees.Rutgers.EDU
>Reply-To: aprssig@tapr.org
>To: aprssig@tapr.org
>
>
>The APRS programs are on
>
>
>ftp.tapr.org
>
>in
>
>/tapr/SIG/aprssi/upload/
>
Yea, I know. Did you mean to send this to someone else???

Steve

95. Re: [APRSSIG:4214] aprs

From: alanwc7r@primenet.com (Alan Unangst)
Date: Sat, 04 Nov 1995 16:00:20 -0700
To: aprssig@tapr.org, aprssig@tapr.org

Message-ID: <199511042300.QAA08172@usr1.primenet.com>
Rendered body type: text/plain
ftp.tapr@com

At 03:43 PM 11/4/95 -0600, Gerard Rijs wrote:
>Hello Bob
>I am now on Internet but cannot find your new program. On which FTP-server
>is it?
>Looking forward to your reply
>
>
>Best Regards
>
>
>Ger, PA0RYS
>
>

96. Re: [APRSSIG:4171] Re: Problems ??

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Sat, 4 Nov 1995 15:12:58 -0800
To: aprssig@tapr.org
Message-ID: <199511042312.PAA07926@ix.ix.netcom.com>
Rendered body type: text/plain

You wrote:
>
>
>On Fri, 3 Nov 1995 elekesa@cadvision.com wrote:
>
>> 1? - When I am driving, is there anyway to erase my callsign at my
>> position while the screen updates? It seems to get very messy after awhile.
>> Once I press the spacebar, it clears up, however I loose my track history
>
>APR REPLY: a) do an OPS replay, to restore your track footprints AND/OR
>turn calsigns off with the MAPS-FEATURES-CALLS

Bob,

Is there any chance that a future version will support an option to turn *off* the track footprints, and only show the current position of map objects? Such an option would make using APRS at public service events easier, by eliminating the need to periodically press the spacebar to clean up the display. Busy events tend to clutter the display quickly. APRS would function a lot more like professional AVL systems used in public safety dispatch centers if such an option were available.

There are some applications where the track footprints are nice to have. I don't think they should be eliminated altogether, but it would be nice to be able to turn them off.

Jack

97. Re: [APRSSIG:4190] USGS 1:2M data cheap!

From: barrettd@crpl.cedar-rapids.lib.ia.us
Date: Sat, 04 Nov 1995 17:14:23 -0600
To: aprssig@tapr.org
Message-ID: <199511042319.RAA11626@sys1.tapr.org>
Rendered body type: text/plain

At 04:02 PM 95-11-3 -0600, you wrote:
>USGS data. I donno about you guys, but the \$32 I spent to get the entire
>USA CD ROM at the 2M scale sure is a LOT easier that what you guys are
>going through to get free data, hi hi
>
>And since most folks are only intersted in streets in their states, It
>would seem like purchasing one of the 100K CDs for your area is
>also \$32 well spent. (to avoid being dependent on netorks and
>someone elses up/down computers..) hi hi
>
>Am I overlooking something?
>
>De WB4APR
>
>
>
Yea Yea. But gee Bob for those of use that can't program neat stuff like you have we have to find some other way to suffer :-) I think most of use do it that way just because we can, who knows? More than likely it's cause I'm

allergic to postage stamp glue.

Tounge in Cheek
(not on stamp)
Barrett

98. Re: [APRSSIG:4218] Re: Problems ??

From: elekesa@cadvision.com (aaron elekes)
Date: Sat, 4 Nov 1995 16:49:47 -0700
To: aprssig@tapr.org
Message-ID: <9511042349.AA54470@huey.cadvision.com>
Rendered body type: text/plain

>>> 1? - When I am driving, is there anyway to erase my callsign at my
>>> position while the screen updates? It seems to get very messy after
awhile.
>>> Once I press the spacebar, it clears up, however I loose my track history
>>

>Bob,
>

>Is there any chance that a future version will support an option to turn
off the track
>footprints, and only show the current position of map objects? Such an
option would make
>using APRS at public service events easier, by eliminating the need to
periodically press
>the spacebar to clean up the display. Busy events tend to clutter the
display quickly.

I agree... However, I would still like to see the last position
updated. I wonder if there could be several ways to display this? Erase
the last position, Erase the last position then replace the new one every
screen update, or display your object and place the callsign(s) somewhere
else on the screen?

99. Aprs

From: pes@gv.net (Peter Short)
Date: Sat, 4 Nov 1995 16:57:16 -0800
To: aprssig@tapr.org
Message-ID: <199511050057.QAA07632@main.gv.net>
Rendered body type: text/plain

When is a Windows version of APRS going to come out?The Mac APRS version is
really
impressive.If there is going to be a Windows version,will it be as good as
the Mac APRS?
Best regards

100. New address

From: ke4eer@ro.com (William Nolle)
Date: Sat, 04 Nov 1995 19:41:58
To: aprssig@tapr.org
Message-ID: <199511050150.TAA05604@sh1.ro.com>
Rendered body type: text/plain

Well i should have my address problems solved at last, i went back to my
old provider at ro.com. I just wanted to let all of you know in case you want
to send me some flame messages hi hi.

Bill
ke4eer@ro.com

101. Re: [APRSSIG:4219] Re: USGS 1:2M data cheap!

From: n2czf@gate.net
Date: Sun, 5 Nov 1995 10:56:12 -0500
To: aprssig@tapr.org
Message-ID: <199511051556.KAA32807@tequesta.gate.net>
Rendered body type: text/plain

My problem is that I hate the wait when I order thru the mail/phone! Well since
I hate to wait I have never ordered. I guess if I get to think about it I have
been waiting for over a year now since I never have ordered it! hi hi

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

102. Track foot prints

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 5 Nov 1995 11:28:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951105112415.24257C-100000@greatlakes>
Rendered body type: text/plain

I can not turn off track footprints.

The way I am writing them to the screen, I can only write something over them, not erase them. If I write BLACK, then that destroys the roads and anything else they pass over. SO I write a BLUE to at least show you the difference between the LATEST track and the old ones.

I could use the EXCLUSIVE OR screen write function, but then would LOSE the ability to have objects be different colors to indicate different status... such as WHITE for live, gray for OLD, CYAN for DR, GREEN for wide, etc...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

103. \$32 CD ROMS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 5 Nov 1995 11:39:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951105112856.24257D-100000@greatlakes>
Rendered body type: text/plain

BOB, APR SAID:

> >USGS data. I donno about you guys, but the \$32 I spent to get the entire
> >USA CD ROM at the 2M scale sure is a LOT easier than what you guys are
> >going through to get the same data over the internet...

TYPICAL REPLIES SAID:

> Yea Yea. But gee Bob for those of use that can't program neat stuff like you
> have we have to find some other way to suffer :-) I think most of use do it
> that way just because we can, who knows?

APR REPLY: Chuckle, chuckle. I was not calling anyone cheap, hi hi.. But I can access the CD in about 5 seconds without having to fight for the phone line from my wife or kids, and NOT having to suffer through the delays of the internet, and NOT having to suffer data and link outages, and NOT having to learn something NEW such as how to ftp and unblock files... And these days a CD ROM drive only costs about \$79...

FINAL POINT: hi hi

And you dont need to know anything about programming. Just put the CD in your ROM drive, run MAKEMAP.EXE, tell it what LAT/LONG and range, and come back in 15 minutes to have a complete 32 mile map from the 2,000,000 ROM. There are a few more steps for the MKMAPHK program, but they are all explained in the docs... Also, you may spend another hour playing with the map in MAPFIX getting rid of a few more redundant points...

104. Re: [APRSSIG:4225] \$32 CD ROMS

From: alanwc7r@primenet.com (Alan Unangst)
Date: Sun, 05 Nov 1995 10:03:05 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511051703.KAA28066@usr5.primenet.com>
Rendered body type: text/plain

At 10:49 AM 11/5/95 -0600, Bob Bruninga wrote:

>

>BOB, APR SAID:

>> >USGS data. I donno about you guys, but the \$32 I spent to get the entire
>> >USA CD ROM at the 2M scale sure is a LOT easier than what you guys are
>> >going through to get the same data over the internet...

>

>TYPICAL REPLIES SAID:

>> Yea Yea. But gee Bob for those of use that can't program neat stuff like you
>> have we have to find some other way to suffer :-) I think most of use do it
>> that way just because we can, who knows?

>

>APR REPLY: Chuckle, chuckle. I was not calling anyone cheap, hi hi.. But

>I can access the CD in about 5 seconds without having to fight for the
>phone line from my wife or kids, and NOT having to suffer through the
>delays of the internet, and NOT having to suffer data and link outages,
>and NOT having to learn something NEW such as how to ftp and unblock
>files... And these days a CD ROM drive only costs about \$79...

>
>FINAL POINT: hi hi
>And you dont need to know anything about programming. Just put the CD in
>your ROM drive, run MAKEMAP.EXE, tell it what LAT/LONG and range, and
>come back in 15 minutes to have a complete 32 mile map from the 2,000,000
>ROM. There are a few more steps for the MKMAPHK program, but they are
>all explained in the docs... Also, you may spend another hour playing
>with the map in MAPFIX getting rid of a few more redundant points...
>
>
>

105. Re: [APRSSIG:4225] \$32 CD ROMS

From: alanwc7r@primenet.com (Alan Unangst)
Date: Sun, 05 Nov 1995 10:03:03 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511051703.KAA28062@usr5.primenet.com>
Rendered body type: text/plain

Bob:

I have looked high and low for the usgs CD ROM and can't find it. I know that we are rural, but... can you help. I do have access to PHX, TUS, and FLG. They are the top 3 cities here in Az. Any help would be appreciated. Right now I am using MS's AutoMap to make local maps for the gang out here that want then.

Thanks for your help,

Alan, WC7R

At 10:49 AM 11/5/95 -0600, Bob Bruninga wrote:

>
>BOB, APR SAID:
>> >USGS data. I donno about you guys, but the \$32 I spent to get the entire
>> >USA CD ROM at the 2M scale sure is a LOT easier than what you guys are
>> >going through to get the same data over the internet...
>
>TYPICAL REPLIES SAID:
>> Yea Yea. But gee Bob for those of use that can't program neat stuff like you
>> have we have to find some other way to suffer :-) I think most of use do it
>> that way just because we can, who knows?
>
>APR REPLY: Chuckle, chuckle. I was not calling anyone cheap, hi hi.. But
>I can access the CD in about 5 seconds without having to fight for the
>phone line from my wife or kids, and NOT having to suffer through the
>delays of the internet, and NOT having to suffer data and link outages,
>and NOT having to learn something NEW such as how to ftp and unblock
>files... And these days a CD ROM drive only costs about \$79...
>
>FINAL POINT: hi hi
>And you dont need to know anything about programming. Just put the CD in
>your ROM drive, run MAKEMAP.EXE, tell it what LAT/LONG and range, and
>come back in 15 minutes to have a complete 32 mile map from the 2,000,000
>ROM. There are a few more steps for the MKMAPHK program, but they are
>all explained in the docs... Also, you may spend another hour playing
>with the map in MAPFIX getting rid of a few more redundant points...
>
>
>

106. Re: [APRSSIG:4227] Re: \$32 CD ROMS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 5 Nov 1995 14:44:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951105144110.24801C-100000@greatlakes>
Rendered body type: text/plain

On Sun, 5 Nov 1995, Alan Unangst wrote:

> I have looked high and low for the usgs CD ROM and can't find it. I know
> that we are rural, but... can you help. I do have access to PHX, TUS, and
> FLG. They are the top 3 cities here in Az. Any help would be appreciated.

FOR THE NTH TIME: The ADDRESS and 1-800 PHONE NUMBER FOR THE USGS to get the CD ROMS is in README\MAPS-CD.txt included in every distribution copy of APRS. I am not multi-tasking, so cant go look it up for you on this

PC while reading mail...

READ THE DOCS so you get the right format.

107. Re: [APRSSIG:4228] Re: \$32 CD ROMS

From: alanwc7r@primenet.com (Alan Unangst)
Date: Sun, 05 Nov 1995 13:22:21 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511052022.NAA15953@usr5.primenet.com>
Rendered body type: text/plain

I'm Sorry. I did not see any of your previous information. I'll try and be more observant in the future. Again, I'm sorry to have been a bother. Thanks for your help and 73, Alan, WC7R

At 01:55 PM 11/5/95 -0600, Bob Bruninga wrote:

>
>On Sun, 5 Nov 1995, Alan Unangst wrote:
>
>> I have looked high and low for the usgs CD ROM and can't find it. I know
>> that we are rural, but... can you help. I do have access to PHX, TUS, and
>> FLG. They are the top 3 cities here in Az. Any help would be appreciated.
>
>FOR THE NTH TIME: The ADDRESS and 1-800 PHONE NUMBER FOR THE USGS to get
>the CD ROMS is in README\MAPS-CD.txt included in every distribution copy
>of APRS. I am not multi-tasking, so cant go look it up for you on this
>PC while reading mail...
>
>READ THE DOCS so you get the right format.
>
>

108. Re: [APRSSIG:4211] VE3DKQ-15 Mobile to Florida

From: KD4EMI@aol.com
Date: Sun, 5 Nov 1995 15:32:36 -0500
To: aprssig@tapr.org
Message-ID: <951105153235_13463539@mail04.mail.aol.com>
Rendered body type: text/plain

WE've got him here...he's my neighbor !
Will give him instructions on how to get on HF !
Mike

KD4EMI@AOL.COM

109. Re: [APRSSIG:4224] Track foot prints

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Sun, 5 Nov 1995 18:56:37 -0800
To: aprssig@tapr.org
Message-ID: <199511060256.SAA17725@ix10.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>
>I can not turn off track footprints.
>
>The way I am writing them to the screen, I can only write something over
>them, not erase them. If I write BLACK, then that destroys the roads and
>anything else they pass over. SO I write a BLUE to at least show you
>the difference between the LATEST track and the old ones.

I thought this might be a problem. I can remember when moving the little yellow circle cursor would erase anything underneath it, but not too long ago you made a change in the way the display was handled, and that stopped happening. I thought that maybe it could apply to objects too.

I need to post a message later about the results of my first OMNI-DF attempt today, but a quick question - I hooked up my new PK-12 for the first time today using 74B and HSP mode. Everything seemed fine at first, but then I noticed I was not getting any other objects on my screen (other than my own mobile), in spite of being in range of local WIDEs and home stations. Closer inspection showed the received data coming in at the bottom of the screen, but other posits and beacons were all coming in as follows:

No> (full posit or beacon here)

i.e., all received data from the TNC had "No>" in front of it. Any ideas? I'm

stumped...

Jack

110. Tweaks to MKMAPHK1 generated maps

From: KSwaggart@aol.com
Date: Sun, 5 Nov 1995 22:01:30 -0500
To: aprssig@tapr.org
Message-ID: <951105220129_13781677@emout06.mail.aol.com>
Rendered body type: text/plain

Yesterday I cranked out seven 1 to 2 mile detail maps covering the San Francisco peninsula using MKMAPHK1. It really works slick. If you are still using my CONV100C, can it and use MKMAPHK1.

Today I drove around until the laptop's battery died and collected some ground truth GPS data to check the maps. Upon overlaying the GPS data I noticed the positions were consistently off about one city block in both the vertical (N/S) and horizontal (E/W) plane. I adjusted the map's origin lat by +.0002 and the long by +.0006 with a text editor. These corrections probably only work here in the San Francisco area, but I pass along the info so you can find your local correction factor, if any is required. The correction was the same for all seven maps, so I suspect it may be a difference in the datums between my GPS and the CD ROM USGS datum. My GPS was set for WGS84.

111. Anymore Calif maps out there?

From: KSwaggart@aol.com
Date: Sun, 5 Nov 1995 22:09:13 -0500
To: aprssig@tapr.org
Message-ID: <951105220909_13789125@emout05.mail.aol.com>
Rendered body type: text/plain

I'm getting ready to zip together all the California maps I can locate. If you have generated any please send them to me, either by sending me an e-mail with an attached file, or by mail:

kswaggart@aol.com

1025 Gull Ave,
Foster City, Ca
94401-1444

Target date for distributing CAMAPS04.zip is next Sunday, 12 Nov.

73, Ken, W7KKE

112. Re: [APRSSIG:4231] Re: Track foot prints

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 5 Nov 1995 23:31:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951105232720.26191E-100000@greatlakes>
Rendered body type: text/plain

On Sun, 5 Nov 1995, Jack Anderson wrote:

> Everything seemed fine at first, but then I noticed I was not getting
> any other objects on my screen (other than my own mobile), in spite of
> being in range of local WIDEs and home stations. Closer inspection
> showed the received data coming in at the bottom of the screen, but
> other posits and beacons were all coming in as follows:
>
> No> (full posit or beacon here)
>
> i.e., all received data from the TNC had "No>" in front of it. Any ideas?

The NO> means that there is NO > symbol found, that is the separator between the FROM callsign and the TO callsign. APRS could NOT find that > char.

Looks like you had HEADER ON, so that the HEADER was on a different line than the PACKET data itself?

113. Power Height Gain

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 6 Nov 1995 00:08:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951105233845.26191H-100000@greatlakes>
Rendered body type: text/plain

OK, guys, I'm starting to get P@#\$%\$#@# about these PHENOMENAL range rings!

IF YOU CANNOT HIT EVERY STATION *DIRECT* THAT INTERSECTS YOUR CIRCLE,
THEN YOU'RE LYING!

EVEN if you calculate it according to what ever equation you use, but you
cannot work stations within your circle, then it is WRONG!!!

STRIVE to make your PHG ring MEANINGFUL. TEST it, study it, drive
around, show off your knowledge of topology by trying to make your PHG
ring REAL... OFFSET it if needed.

A range ring BEYOND usable reliable range from your station should be
considered an indication of your own selfish ego and stupidity. It does
NOT indicate what a neat site you have. AND IT JUST LOUSES up any
network planning and operations.

Yes, I am yelling tonight, hi hi..

NOW, I KNOW THERE ARE PROBLEMS:

- 1) unfortunately, the PHG format only permits CIRCULAR patterns, so
it can never truly represent a REAL pattern, but ERR on the
conservative side. Make the circle closer to the MINIMUM range
not the MAXIMUM in one direction.
- 2) the APRS format DOES permit you to OFFSET that circle in a given
direction. This gives a 3 to one favoring in the maximum direction.
AND of course, minimizes a poor direction..
- 3) If you use a rotatable BEAM, which is not PERMANENT in one direction,
then your antenna gain should NOT be your antenna gain (say 10 db or more,
but should be 0 or less, since anyone trying to contact you will probably
NOT be in your main beam. In fact, you should probably indicate -6 db or
more, except that APRS does not permit negative antenna gains.

THINK about the service that these PHG rings provide. They tell OTHERS
at what range they can use you as a RELAY. IT IS FRUSTRATING to drive
into someone's PHG ring and NOT be able to use them!

*FLAME OFF.....

Im not that mad, hi hi, just tired of seeing the same ol digi on my map
for the last 2 years with a range ring going out 70 miles in all
directions which cannot be worked within 30.... in most directions...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

114. Re: Power Height Gain

From: quarry@q.continuum.net (Chip Griffin)
Date: Mon, 6 Nov 1995 01:31:13 -0500
To: aprssig@tapr.org
Message-ID: <v01530502acc3577c38e6@[199.0.52.56]>
Rendered body type: text/plain

At 23:26 11/5/95, Bob Bruninga wrote:

> THINK about the service that these PHG rings provide. They tell OTHERS
> at what range they can use you as a RELAY. IT IS FRUSTRATING to drive
> into someone's PHG ring and NOT be able to use them!

Perhaps there may be a way you can tackle this. One could write a routine
to examine and extract data about distance to stations heard direct. One
could look at the location of stations heard direct and compare it to your
station location to see the distance and direction. This data once gleamed
could be utilized to provide information on accuracy of the PHG setup.

I am fairly sure this is possible based on the fact that I have noticed
that the TNCs seem to annotate with an asterix whether data is direct or
digi'ed and if digi'ed which one it was that transmitted it.

How could this data be utilized? I would think that would vary from just
displaying it (on a screen you could call up) to using it to modifying the
PHG. This data would be most useful after prolonged station operation
(thus the need to log it in some form) and only if there are other stations
out there.

The other part of the PHG that bothers me is when I using my mobile setup.
When I do that I put in my power (50w), my gain (7.5dB), and my height (0

or 6'). No matter what though I effectively have a range circle that is non-existent which seems to imply that I can't hit anyone ... but obviously I do ... but I guess I am applying it where it wasn't meant to be applied.

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (860-889-6427)

quarry@q.continuum.net | N1MIE@nlokk.ct (packet)
griffge@nu.com | Chip1:320/301.0 or .1 (fido)
emmet2@aol.com |

<http://q.continuum.net/~quarry/>

115. Re: [APRSSIG:4147] Re: Weather Stations

From: RonN9QGS@aol.com
Date: Mon, 6 Nov 1995 02:18:20 -0500
To: aprssig@tapr.org
Message-ID: <951106021819_81370843@mail06.mail.aol.com>
Rendered body type: text/plain

I am pretty sure the weatherbase is the same as the Ultimeter II, in fact now that Mac Supports the Heath, I have a Ultimeter II for sale, no more then five months old, if someone is interested in a Ultimeter II. Write me.

116. Re: [APRSSIG:4210] Re: APRS Help

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Mon, 06 Nov 95 06:42:59 UTC
To: aprssig@tapr.org
Message-ID: <9504@paccomm.com>
Rendered body type: text/plain

Reference the lack of PK-900 support in APRS.

I cannot speak for Bob, but two things might help:

1. Spell his name correctly. Showing you care might improve his desire to take an interest.
2. Offer to loan him a PK-900 manual so he can figure out the differences. You can't expect him to purchase an expensive TNC just to update his code.
3. Best of all, work out the problems and when you get it right, send him the information so he can put it in the DOC files for others to benefit from.

Bob is writing the code and has years of experience with this stuff, but this is a community effort - making maps, checking out new TNCs, etc. If you need help, the first place to look is in the mirror.

Gwyn Reedy, W1BEL ----- gwyn@paccomm.com ----- W1BEL@amsat.org -----
PacComm Packet Radio Systems, Inc. + (813) 874-2980 Fax: + (813) 872-8696
4413 N. Hesperides St. BBS: + (813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA info@paccomm.com <http://www.paccomm.com/info>

117. CD-Maps

From: ke4eer@ro.com (William Nolle)
Date: Mon, 06 Nov 1995 07:25:05
To: aprssig@tapr.org
Message-ID: <199511061333.HAA13165@sh1.ro.com>
Rendered body type: text/plain

I found something very strange trying to make some maps from the 100K CD using the new software. I first picket full blocks on the CD because i wanted to do some maps of I65 ll the way from the TN line down to the coast. The total disk soace required was 179.436 Meg. Now when starting the map program i entered the coordianance of 33,5343N-86,8431W @ 8 mile range, Well the software told me that there was no data points for the coordianance of 122.05N - -222.5167W at this map center. Now i can't figure out if it's the CD's problem or the new 100K map software!. In other words maybe you can't select full size blocks because it will induce errors!!. Go figure....

Bill KE4EER
ke4eer@ro.com

118. Re: [APRSSIG:4235] Power Height Gain

From: jkerns@usit.net (jim kerns)
 Date: Mon, 06 Nov 1995 09:24:19 -0500
 To: aprssig@tapr.org
 Message-ID: <199511061319.IAA20165@use.usit.net>
 Rendered body type: text/plain

>
 >OK, guys, I'm starting to get P@#\$%\$#@# about these PHENOMENAL range rings!
 >
 >IF YOU CANNOT HIT EVERY STATION *DIRECT* THAT INTERSECTS YOUR CIRCLE,
 >THEN YOU'RE LYING!
 >
 >EVEN if you calculate it according to what ever equation you use, but you
 >cannot work stations within your circle, then it is WRONG!!!
 >
 >STRIVE to make your PHG ring MEANINGFUL. TEST it, study it, drive
 >around, show off your knowledge of topology by trying to make your PHG
 >ring REAL... OFFSET it if needed.
 >
 >A range ring BEYOND usable reliable range from your station should be
 >considered an indication of your own selfish ego and stupidity. It does
 >NOT indicate what a neat site you have. AND IT JUST LOUSES up any
 >network planning and operations.
 >
 >Yes, I am yelling tonight, hi hi..
 >
 >NOW, I KNOW THERE ARE PROBLEMS:
 >
 >1) unfortunately, the PHG format only permits CIRCULAR patterns, so
 > it can never truly represent a REAL pattern, but ERR on the
 > conservatie side. Make the circle closer to the MINIMUM range
 > not the MAXIMUM in one direction.
 >
 >2) the APRS format DOES permit you to OFFSET that circle in a given
 > direction. This gives a 3 to one favoring in the maximum direction.
 > AND of course, minimizes a poor direction..
 >
 >3) If you use a rotatable BEAM, which is not PERMANENT in one direction,
 >then your antenna gain should NOT be your antenna gain (say 10 db or more,
 >but should be 0 or less, since anyone trying to contact you will probably
 >NOT be in your main beam. In fact, you should probably indicate -6 db or
 >more, except that APRS does not permit negative antenna gains.
 >
 >THINK about the service that these PHG rings provide. They tell OTHERS
 >at what range they can use you as a RELAY. IT IS FRUSTRATING to drive
 >into someone's PHG ring and NOT be able to use them!
 >
 >*FLAME OFF.....
 >
 >Im not that mad, hi hi, just tired of seeing the same ol digi on my map
 >for the last 2 years with a range ring going out 70 miles in all
 >directions which cannot be worked within 30.... in most directions...
 >
 >DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
 >
 >
 Hi Bob: Gee I thought you were located right by the Great Lakes!! Hi.
 It sure is nice to be able to use my GPS now, bug free. It works like a
 charm. Having fun. Here. Keep up good work. Boy this APRS Sig sure has
 some crazy stuff in it. Hi Hi.
 Jim N4PUQ>

119. Re: [APRSSIG:4176] Re: RELAY,WIDE, etc

From: AZWDC@aol.com
 Date: Mon, 6 Nov 1995 08:46:57 -0500
 To: aprssig@tapr.org
 Message-ID: <951106084655_14042805@emout05.mail.aol.com>
 Rendered body type: text/plain

Don't think I could have said it better myself.

AZWDC@aol.com
 Capt. James A. Owen, CAP (WW7J)
 AZ. WING, CAP

120. Re: [APRSSIG:4236] Re: Power Height Gain

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
 Date: Mon, 6 Nov 1995 09:00:31 -0500 (EST)
 To: aprssig@tapr.org

Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511060831.A20470-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I've coded such a routine in turbo pascal.

Program reads and parses BACKUP.BK (or whatever filename using same format), solving the spherical triangle it computes the distance from each station to all others, and outputs to a filename of your choice. I call the program RANGE.EXE and would be happy to distribute it to selected users as a Beta copy for critical review.

I've used it to get a first order appraisal of station proximities here in South Florida.

How do I get it to y'all?

William Manley (KB4XE) - further from Great Lakes than Bob!
z002594b@bcfreenet.seflin.lib.fl.us

On Mon, 6 Nov 1995, Chip Griffin wrote:

>
> Perhaps there may be a way you can tackle this. One could write a routine
> to examine and extract data about distance to stations heard direct. One
> could look at the location of stations heard direct and compare it to your
> station location to see the distance and direction. This data once gleamed
> could be utilized to provide information on accuracy of the PHG setup.
>
>

121. CD-Rom maps

From: ke4eer@ro.com (William Nolle)
Date: Mon, 06 Nov 1995 08:29:51
To: aprssig@tapr.org
Message-ID: <199511061438.IAA14933@sh1.ro.com>
Rendered body type: text/plain

Well i just found out that's it's not the CD-Rom creating the error it's MKMAPHK1.EXE that cannot handle that many files being in that directory. I did the same thing again but only picked all the 15" cells from the first two blocks covering that area then it worked. I did find another problem tough and that is you can't import a map done by MKMAPHK1.exe into MAPFIX16.EXE and still maintain the quality of the map. Mapfix16 will make the otherwise smooth curves look like staircase steps completely unexeptable Well back to the drawing board i guess, MKMAPHK1 is great for making those 1 and 2 mile street level maps tough. I have found out one thing with making all these maps, APRS users grab them up like they are made of gold. I even received several phone calls from users wanting the maps that was after i posted the whole bunch i had onto a BBS. That's just great i think.

Bill KE4EER
ke4eer@ro.com

122. Re: [APRSSIG:4242] Re: Power Height Gain

From: bottmgun@emi.net
Date: Mon, 06 Nov 1995 09:45:16 -0500
To: aprssig@tapr.org
Message-ID: <199511061557.KAA11106@athens.emi.net>
Rendered body type: text/plain

William,
I am here local to you (I have a 2nd E-mail address on bcfeenet.seflin) in Coconut Creek. I'm interested in BETA testing your ranging program.
Respectfully,
Jay (KF4DBI)

>I've coded such a routine in turbo pascal.
>
>Program reads and parses BACKUP.BK (or whatever filename using same
>format), solving the spherical triangle it computes the distance from
>each station to all others, and outputs to a filename of your choice. I
>call the program RANGE.EXE and would be happy to distribute it to selected
>users as a Beta copy for critical review.
>
>I've used it to get a first order appraisal of station proximities here
>in South Florida.
>

```

>How do I get it to y'all?
>
>William Manley (KB4XE) - further from Great Lakes than Bob!
>z002594b@bcfreenet.seflin.lib.fl.us
=====0o=====
I Capt. Jay K. Jeffries          CAP Call Sign: Sparrow 930          o 0 I
I Deputy Commander/Operations    Amateur Call Sign: KF4DBI          o I
I Group 9, Florida Wing          <botmtgun@emi.net>          (_/\_) I
I Civil Air Patrol               <a028171t@bcfreenet.seflin.lib.fl.us> I
I                                http://www.geopages.com/TheTropics/1984 I
I                                I                                I
I                                I                                I
I _____(*)_____ AIR - SEA - LAND SEARCH AND RESCUE I
=====

```

123. Re: [APRSSIG:4227] Re: \$32 CD ROMS

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
 Date: Mon, 6 Nov 1995 08:59:04 -0600
 To: aprssig@tapr.org
 Message-ID: <9511061459.AA30939@omnifest.uwm.edu>
 Rendered body type: text/plain

I have looked high and low for the usgs CD ROM and can't find it. I know that we are rural, but... can you help. I do have access to PHX, TUS, and FLG. They are the top 3 cities here in Az. Any help would be appreciated. Right now I am using MS's AutoMap to make local maps for the gang out here that want then.

Alan,
 I have a copy of Delorme's Street Atlas USA (ver. 3.0 for Windows) which I use for locating repeaters (I'm the WI Frequency Coordinator) I find that is excellent.

73 de Dave

 David W. Barrow III, N9UNR
 Wisconsin Association of Repeater - Frequency Coordinator
 Snail: 1894 Elm Drive - Town of Cedarburg
 West Bend, WI 53095-9603
 Phone: (414) 375-2667
 Packet: N9UNR @ N9PBY.EF63BI.WI.USA.NOAM
 Internet: dbarrow@omnifest.uwm.edu

124. Re: [APRSSIG:4232] Tweaks to MKMAPHK1 generated ma

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
 Date: Mon, 6 Nov 1995 09:06:26 -0600
 To: aprssig@tapr.org
 Message-ID: <9511061506.AA11721@omnifest.uwm.edu>
 Rendered body type: text/plain

My GPS was
 set for WGS84.
 What does that setting mean?
 What different ones can you use?
 What is the difference?
 What criteria do you use to pick one?

CUL & 73 de Dave

 David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
 U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
 Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
 Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham

125. Re: [APRSSIG:4225] \$32 CD ROMS

From: dwetzel@acs.uswest.com
 Date: Mon, 6 Nov 1995 08:13:39 -0600
 To: aprssig@tapr.org
 Message-ID: <09e1d270@acmspgw1.mnet.uswest.com>
 Rendered body type: text/plain

BOB, APR SAID:
 > >USGS data. I donno about you guys, but the \$32 I spent to get the entire
 > >USA CD ROM at the 2M scale sure is a LOT easier than what you guys are
 > >going through to get the same data over the internet...

TYPICAL REPLIES SAID:
 > Yea Yea. But gee Bob for those of use that can't program neat stuff like you

> have we have to find some other way to suffer :-) I think most of use do it
> that way just because we can, who knows?

APR REPLY: Chuckle, chuckle. I was not calling anyone cheap, hi hi.. But I can access the CD in about 5 seconds without having to fight for the phone line from my wife or kids, and NOT having to suffer through the delays of the internet, and NOT having to suffer data and link outages, and NOT having to learn something NEW such as how to ftp and unblock files... And these days a CD ROM drive only costs about \$79...

-----> My wife doesn't complain about the phone line, but the \$79 for the cd (and \$32 for the ROM) gets a LOT of attention! 8-)

Doug
KC7CO

FINAL POINT: hi hi
And you dont need to know anything about programming. Just put the CD in your ROM drive, run MAKEMAP.EXE, tell it what LAT/LONG and range, and come back in 15 minutes to have a complete 32 mile map from the 2,000,000 ROM. There are a few more steps for the MKMAPHK program, but they are all explained in the docs... Also, you may spend another hour playing with the map in MAPFIX getting rid of a few more redundant points...

126. Re: [APRSSIG:4238] Re: APRS Help

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Mon, 6 Nov 1995 09:16:26 -0600
To: aprssig@tapr.org
Message-ID: <9511061516.AA11931@omnifest.uwm.edu>
Rendered body type: text/plain

Gwyn said:

"2. Offer to loan him a PK-900 manual so he can figure out the differences. You can't expect him to purchase an expensive TNC just to update his code. Better yet - contact Bob to see if he will do it - then send him the PK-900 w/ manual - for him to use and test. Let him get his hands on the box. If you really want to be a good guy - pay the UPS charges BOTH ways!

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

127. Re: [APRSSIG:4233] Anymore Calif maps out there?

From: kevin@smartlink.net (Kevin Falxa)
Date: Mon, 6 Nov 1995 08:03:52 -0800
To: aprssig@tapr.org
Message-ID: <199511061603.IAA14858@warp10.smartlink.net>
Rendered body type: text/plain

>I'm getting ready to zip together all the California maps I can locate. If
>you have generated any please send them to me, either by sending me an e-mail
>with an attached file, or by mail:

Hi Ken,
Here is a local map we have been working on for a year or so, just added a marathon route and I left it there for interest, our marathon is this next sunday, our first annual.
Local DCS (RACES type group for LA County) hams are providing communications support.

128. Re: [APRSSIG:4249] Re: Anymore Calif maps out there?

From: kevin@smartlink.net (Kevin Falxa)
Date: Mon, 6 Nov 1995 09:03:51 -0800
To: aprssig@tapr.org
Message-ID: <199511061703.JAA19210@warp10.smartlink.net>
Rendered body type: text/plain

Yikes!
Sorry to the SIG for that message w/attachments to all.
Kevin/K060N from Valencia, Calif.

129. DeLorme CD ROM Maps

From: "Douglas R. Woodruff" <102256.1216@compuserve.com>
Date: 06 Nov 95 12:11:20 EST
To: TAPR E-mail Forum <aprssig@tapr.org>
Message-ID: <951106171120_102256.1216_BHB74-1@CompuServe.COM>
Rendered body type: text/plain

I am curious whether or not there is a way to use Delorme's StreetAtlas USA v 3.0 to create maps for APRS. The maps on that CD are amazing!

Doug, KM4HY

130. Re: [APRSSIG:4245] Re: \$32 CD ROMS

From: alanwc7r@primenet.com (Alan Unangst)
Date: Mon, 06 Nov 1995 10:13:07 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511061713.KAA29539@usr4.primenet.com>
Rendered body type: text/plain

Thanks, Dave..I'll try and find a copy. Prescott is not exactly a big town. i's located between PHX and FLG. We have a nice mountain town, but lack many consumer goods that the biggies have. Thanks, again, for the help

73....alan

At 09:07 AM 11/6/95 -0600, David W. Barrow III wrote:

>I have looked high and low for the usgs CD ROM and can't find it. I know
>that we are rural, but... can you help. I do have access to PHX, TUS, and
>FLG. They are the top 3 cities here in Az. Any help would be appreciated.
>Right now I am using MS's AutoMap to make local maps for the gang out here
>that want then.
> Alan,
> I have a copy of Delorme's Street Atlas USA (ver. 3.0 for Windows)
> which I use for locating repeaters (I'm the WI Frequency Coordinator)
> I find that is excellent.
>

>73 de Dave

>-----
>David W. Barrow III, N9UNR
>Wisconsin Association of Repeater - Frequency Coordinator
>Snail: 1894 Elm Drive - Town of Cedarburg
> West Bend, WI 53095-9603
>Phone: (414) 375-2667
>Packet: N9UNR @ N9PBY.EF63BI.WI.USA.NOAM
>Internet: dbarrow@omnifest.uwm.edu
>-----
>
>

131. Why All The Complaining???

From: alanwc7r@primenet.com (Alan Unangst)
Date: Mon, 06 Nov 1995 10:31:05 -0700
To: aprssig@tapr.org
Message-ID: <199511061731.KAA02096@usr4.primenet.com>
Rendered body type: text/plain

Since I joined the aprssig, the majority of what I've seen is slings and arrows thrown at Bob's program. I don't understand. Bob has developed a very powerfull, usefull, and enjoyable computer program. The program has applications from emergency service, community service, to just plane HAM fun. This program is extreemly powerful and complicated, and occasionally has had a bug or two. I have tried to point them out, to Bob, when I have discovered them, and only after I have exhausted every possible "fix" that I can try, as an end user. I then detail the problem, in depth and explain what I did and what the program did, I work with others to try and find solutions, and will tell Bob what the common conclusion is.

Most of us appreciate constructive criticism, but to harang the author because the program does not do everything that you think it should is wrong. I use the PHG and sometimes see rings. I could'nt hit one if my life depended on it, using any protocol.....does that mean that the program is flawed???? NO IT MEANS THAT I LIVE IN THE PEOPLES REBUBLIC OF HAISLEY, WITH VERY RESTRICTIV CC&Rs, AND AM RUNNING A SPIDER HIDDEN IN MY ATTIC!!!!

If we are not careful, we are likely to enrage Bob to the point that he pulls his program, or starts charging for it.

I, for one, want to send a big THANK YOU to Bob. I really enjoy the program, and discovering the new things that I can do with it. I would hate to see it

ps: No hate mail Please

Message-ID: <Pine.SUN.3.91.951106134448.6765B-100000@greatlakes>
Rendered body type: text/plain

Apparently some SYSOPS are so concerned that their digi show up as GREEN, that they are putting WIDE-RELAY in their BTexts even though they do NOT have RELAY aliases. You can imagine the plight of a mobile driving through using RELAY,WIDE, and his anger after working on his station for hours, to find that the DIGI was NOT a RELAY..

Sorry, there is no way to know what aliases are in a TNC on the air. We have to trust the good sense of the SYSOP's in properly beaconing the real status of their DIGIS.

Digis should ONLY have WIDE-RELAY in their BTexts if in fact, they ARE operating with the dual alias of RELAY and WIDE. TO do otherwise is a great disservice to their network and travelers.

The SYSOP said that since everyone in town was already RELAY, that using the DIGI with an alias of RELAY would be a disaster. I disagree. ONLY MOBILES should digi via RELAY,WIDE. And mobiles have such poor height and 0 db gain antennas, that they usually hit only the DIGI anyway. I agree that a HOME station in the middle of things should NEVER go via RELAY

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

135. Re: [APRSSIG:4239] CD-Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 6 Nov 1995 13:57:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951106135514.6765C-100000@greatlakes>
Rendered body type: text/plain

In the docs for MKMAPHK it clearly says to ONLY put CD data files that you want processed in the directly, nothing else. What this means is that MKMAPHK will try to proces EVERY point in every file in that directory. This also means (I am guessing) that he had to make some assumptions as to how big to make his arrays to handle all these multiple files. SOUNDS like you overloaded it by an order of magnitude, hi hi

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

On Mon, 6 Nov 1995, William Nolle wrote:

> I found something very strange trying to make some maps from the 100K CD
> using the new software. I first picket full blocks on the CD because i wanted
> to do some maps of I65 ll the way from the TN line down to the coast. The
> total disk soace required was 179.436 Meg. Now when starting the map
> program i entered the coordinance of 33,5343N-86,8431W @ 8 mile range.
> Well the software told me that there was no data points for the coordinance
> of 122.05N - -222.5167W at this map center. Now i can't figure out if it's the
> CD's problem or the new 100K map software!. In other words maybe you can't
> select full size blocks because it will induce errors!.. Go figure....
>
> Bill KE4EER
> ke4eer@ro.com
>
>
>

136. PK-900

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 6 Nov 1995 14:13:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951106141015.6765G-100000@greatlakes>
Rendered body type: text/plain

WOAAHHHHHAAA guys, Embarrassed grin,... There is a PK-900 down the hall in the Academy Club station, and a Manual too, I guess....

Its just a matter of cables (time) reading the manual (time) and figuring out how to talk to a PK-900, (time) so I guess you can say its on the list of things to do... But since the PK-900 is probably owned by 1% of the APRS users, there are a lot of other things on the D0 list in front of it, hi hi....

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

On Mon, 6 Nov 1995, David W. Barrow III wrote:

```

> Gwyn said:
> "2. Offer to loan him a PK-900 manual so he can figure out the differences.
> You can't expect him to purchase an expensive TNC just to update his code.
> Better yet - contact Bob to see if he will do it - then send him
> the PK-900 w/ manual - for him to use and test. Let him get his
> hands on the box. If you really want to be a good guy - pay
> the UPS charges BOTH ways!
> CUL & 73 de Dave
> =====
> David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
> U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
> Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
> Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
> =====
>
>

```

137. Certified mail!

```

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 6 Nov 1995 14:44:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951106142525.6765I-100000@greatlakes>
Rendered body type: text/plain

```

While I'm in the mood for flaming, (Grin..)

In the next version of REGISTER.DOC, you will see an additional line item on the list of options.

It says that if I have to take 2 hours off work to stay home until the POST OFFICE opens at 9AM and drive over there to sign for your REGISTERED OR CERTIFIED LETTER, then it will be an additional \$80 charge...

Look guys, In todays world, most families HAVE NO ONE AT HOME when the mail comes, please consider the EXTREME INCONVENIENCE you are placing on the recipient of your CERTIFIED or REGISTERED LETTER. Most of us also commute 45 minutes to 1.5 hours to our work, so we cant even get to our HOME post office during lunch hour either.

You can imagine how I feel when I skip my car pool so I can go to the P.O and get a letter (which for all I know, could be from the IRS or FBI, or whatever, only to find it is some old retired kodger who wants to have a return receipt for his \$24 bucks...) Another 2 hours of programming time lost...

Wow, this FLAMING could get adicting, hi hi. I have a lot of other pet pieves too... but I guess they are not related to APRS (grin!) :-)

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

138. Re: [APRSSIG:4232] Tweaks to MKMAPHK1 generated maps

```

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Mon, 6 Nov 1995 14:10:04 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511062010.0AA04999@solar.cs.tamu.edu>
Rendered body type: text/plain

```

KSwaggart@aol.com sez:

```

>
> Yesterday I cranked out seven 1 to 2 mile detail maps covering the San
> Francisco peninsula using MKMAPHK1. It really works slick. If you are still
> using my CONV100C, can it and use MKMAPHK1.

```

It does, indeed, work well. I still use CONV100x for other maps that either require handcrafting or more/less detail than mkmaphk1 will provide. For instance, sometimes I need to keep street attributes consistent rather than let mkmaphk1 chain them as it will. For this, I do it manually. With all the practice I've gotten, a manual session takes about 2x a mkmaphk1 session if I've got it planned out properly.

```

> ...
> so you can find your local correction factor, if any is required. The
> correction was the same for all seven maps, so I suspect it may be a
> difference in the datums between my GPS and the CD ROM USGS datum. My GPS was
> set for WGS84.

```

That is consistent with the offset for NAD-27 vs NAD-83/93. WGS 84 is similar to, for the most part, NAD-83/93, but not exactly the same.

I'll see if we can generate a plane change parameter for selected parts of the country.

73, gerry

--

gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

139. Re: [APRSSIG:4190] USGS 1:2M data cheap!

From: dwetzel@acs.uswest.com
Date: Fri, 3 Nov 1995 16:33:09 -0600
To: aprssig@tapr.org
Message-ID: <09a9df40@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

USGS data. I donno about you guys, but the \$32 I spent to get the entire USA CD ROM at the 2M scale sure is a LOT easier than what you guys are going through to get free data, hi hi

And since most folks are only interested in streets in their states, it would seem like purchasing one of the 100K CDs for your area is also \$32 well spent. (to avoid being dependent on networks and someone else's up/down computers..) hi hi

Am I overlooking something?

Yes, - the challenge of going where no man has gone before!! ;-))

Doug
KC7CO

140. garmin.exe gardown6.exe

From: MARLEY@LU.LINCOLN.EDU
Date: Mon, 06 Nov 95 15:24:47 -0500
To: aprssig@tapr.org
Message-ID: <199511062026.0AA03775@sys1.tapr.org>
Rendered body type: text/plain

I HAVE DOWNLOADED BOTH OF THESE PROGRAMS (GARMIN.ZIP, GARDOWN6.ZIP) AND THEY WILL NOT UNPACK PROPERLY. I HAVE EVEN TRIED TO USE THE PKZIPFIX AND STILL NO LUCK. IS THERE A MIRROR SITE WITH THESE FILES? IF SO WHERE.

THANKS ROBERT MARLEY
 N3OBQ
 MARLEY@LU.LINCOLN.EDU

141. Re: [APRSSIG:4246] Re: Tweaks to MKMAPHK1 generated ma

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 6 Nov 1995 15:01:13 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511062101.PAA05984@solar.cs.tamu.edu>
Rendered body type: text/plain

David W. Barrow III sez:
>
> My GPS was
> set for WGS84.
> What does that setting mean?

That is the basic map datum (the reference ellipsoid) for the GPS mapping system. In general, for GPS applications, leave it there.

> What different ones can you use?

About 250 different datums, and an infinite number of other ellipsoids you can define mathematically. Depending on which maps you are trying to reference to, select the ellipsoid of choice.

> What is the difference?

Arithmetic. :-) Seriously, if you're in, say, New Zealand, use a map datum appropriate for that area and for the mapping agency who drew the maps you use there.

> What criteria do you use to pick one?

If you are continuing to use the hardware and maps in the US, your choices, in order of preference should be, WGS-84, NAD-83 (or NAD-83/93), and NAD-27. Almost 100 of the 250+ I'm aware of are permutations for the US, and not generally useful save in a special circumstance... we just defined a new Datum for our local use here at Texas A&M, based on over a year of work and data analysis. That particular datum refers back to NAD-83/93, but is only valid within 100 km of College Station, Texas. I do *NOT* use it save for our Trimble 4000SSI surveying hardware.

73, gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

142. Re: [APRSSIG:4251] DeLorme CD ROM Maps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 6 Nov 1995 15:12:12 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511062112.PAA06167@solar.cs.tamu.edu>
Rendered body type: text/plain

ARGHHHH!

No, they're embellished. They're older, TIGER data and not recently updated. But the ydo look pretty, errors and all!

gerry
--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

143. Re: [APRSSIG:4254] Re: 00index.txt on ftp.tapr.org

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 6 Nov 1995 15:14:50 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511062114.PAA06221@solar.cs.tamu.edu>
Rendered body type: text/plain

David Barrett sez:

>
> I was just wondering if those who are uploading to ftp.tapr.org
> could include a file named 00index.txt which list's the file name and a
> short description. I've done that for the stuff I put in the garmin
> subdirectory (which I will be adding to soon).

That is normally a function of the site, or the keeper thereof. IF all of the stuff in a directory is something you've uploaded, then you can reasonably do that.

An alternative is to start the practice of uploading a filename.dsc description file, and then the keeper of the site could reasonably expect to organize such an index. Asking everyone who uploads to a site like the aprssig on tapr.org is not really a good idea.

gerry
--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

144. DFjr survey (more colors)

From: JAgrelo@aol.com
Date: Mon, 6 Nov 1995 16:52:28 -0500
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <951106165217_81535356@emout05.mail.aol.com>
Rendered body type: text/plain

Anyone interested in participating in the
the DFjr faceplate color scheme survey.
5 color schemes to choose from now.

Visit our home page at: <http://home.navisoft.com/agrelo/ae.htm>
and click on DFjr (lots of new stuff).

This message was posted before with a typo in the http address,
the word home was spelled incorectly.

The (2) new colors may not show up right away, give the server time to post.

Thanks to all who help make our decision.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products

Experts in Microchip and Motorola processors

145. Re: [APRSSIG:4262] garmin.exe gardown6.exe

From: rkramer@cdx.net (Ronald Kramer)
Date: Mon, 06 Nov 1995 22:26:19 GMT
To: aprssid@tapr.org
Message-ID: <199511062227.QAA08465@sys1.tapr.org>
Rendered body type: text/plain

On Mon, 6 Nov 1995 14:43:41 -0600, you wrote:

>I HAVE DOWNLOADED BOTH OF THESE PROGRAMS(GARMIN.ZIP, GARDOWN6.ZIP) AND THEY
>WILL NOT UNPACK PROPERLY. I HAVE EVEN TRIED TO USE THE PKZIPFIX AND STILL NO
>LUCK. IS THERE A MIRROR SITE WITH THESE FILES? IF SO WHERE.

Possible problem is that you did not download in Binary mode....
it will get you evvertime...

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

146. validation

From: Chris DeWaal <dewaalc@Janus-ccm.zenithe.com>
Date: Mon, 06 Nov 95 16:35:30 CST
To: aprssid@tapr.org
Message-ID: <9511061635.A13727@Janus-ccm.ZenithE.Com>
Rendered body type: text/plain

Hi Bob,

I'm having trouble with my DF validation #. After I entered the number
and saved to the config file, the program started beeping bad # in the
upper right hand corner of the screen. I take this to mean the
program doesn't like the number I input.

Call sign

KA9MGS

Registration #

27964

DF validation #

788

Could you please verify if the DF number is correct and email it back
to me.

Thanks, and were having a great time here in Chicago land with aprs,
its growing bigger!!

Chris.

147. Mapmaking tests

From: ke4eer@ro.com (William Nolle)

Date: Mon, 06 Nov 1995 16:39:34

To: aprssig@tapr.org

Message-ID: <199511062248.QAA32202@sh1.ro.com>

Rendered body type: text/plain

After making 13 100K maps using only ROADS no water body's or streams in the city of Birmingham Alabama with 95% street coverage, here are the results.

At -8 mile range, got an error and no data was saved

At -7 mile range. Passed but heavy stair stepping.

(Notice this Bob NOT mapfix.exe)

At -6 mile range. Passed but heavy stair stepping

At -5 mile range. Passed but heavy stair stepping

At -4 mile range. Passed but heavy stair stepping

At -3 mile range. Passed but heavy stair stepping

At -2 mile range. Good exeptable map

At +1.5 mile range. Error no data saved

At +1.4 mile range. Error no data saved

At +1.3 mile range. Error no data saved

At +1.2 mile range. Error no data saved

At +1.1 mile range it locked up my computer.

At -1 mile range, Screen was scrambled and looked a mess but after deleting Test.map and renaming Test.dat to Test.map then using MAPFIX16.EXE Test.map came in at 3005 points without doing any trimming or scrunching.

This tells me that MKMAPHK1 is great for those 1 mile range maps in a heavily populated area NO BIGGER. If you care to try this the coordinance for Birmingham,AL i used where 33,31.24 N - 86,49,53W

I figured i would post this here and save some of you a lot of waiting for a map to get done then only to find it didn't give you what you wanted. Because i would expect with a slower computer this could be realy a long wait to find out you didn;'t get a map at all.

Bill KE4EER

ke4eer@ro.com

148. Re: [APRSSIG:4267] Re: garmin.exe gardown6.exe

From: Gerald J Creager <gerry@cs.tamu.edu>

Date: Mon, 6 Nov 1995 17:20:42 -0600 (CST)

To: aprssig@tapr.org

Message-ID: <199511062320.RAA08903@solar.cs.tamu.edu>

Rendered body type: text/plain

Ronald Kramer sez:

>

> On Mon, 6 Nov 1995 14:43:41 -0600, you wrote:

>

> >I HAVE DOWNLOADED BOTH OF THESE PROGRAMS(GARMIN.ZIP, GARDOWN6.ZIP) AND THEY
> >WILL NOT UNPACK PROPERLY. I HAVE EVEN TRIED TO USE THE PKZIPFIX AND STILL NO
> >LUCK. IS THERE A MIRROR SITE WITH THESE FILES? IF SO WHERE.

>

> Possible problem is that you did not download in Binary mode....

> it will get you evertime...

I didn't make that error (this time :-)) and gardown.exe (not the .zip) is not doing anything but locking up my machine.

73, gerry

--

Gerry Creager N5JXS

gerry@cs.tamu.edu

* SAREX Co-Investigator

* A little radio that lets kids talk

* to astronauts, and smile

149. Re: [APRSSIG:4269] Mapmaking tests

From: Gerald J Creager <gerry@cs.tamu.edu>

Date: Mon, 6 Nov 1995 17:34:23 -0600 (CST)

To: aprssig@tapr.org

Message-ID: <199511062334.RAA09107@solar.cs.tamu.edu>

Rendered body type: text/plain

```
> After making 13 100K maps using only ROADS no water body's or streams in
> the city of Birmingham Alabama with 95% street coverage, here are the results.
>
> At -8 mile range, got an error and no data was saved
> At -7 mile range. Passed but heavy stair stepping.
> (Notice this Bob NOT mapfix.exe)
>
> At -6 mile range. Passed but heavy stair stepping
> At -5 mile range. Passed but heavy stair stepping
> At -4 mile range. Passed but heavy stair stepping
> At -3 mile range. Passed but heavy stair stepping
> At -2 mile range. Good expeptable map
>
> At +1.5 mile range. Error no data saved
> At +1.4 mile range. Error no data saved
> At +1.3 mile range. Error no data saved
> At +1.2 mile range. Error no data saved
> At +1.1 mile range it locked up my computer.
> At -1 mile range, Screen was scrambled and looked a mess but after deleting
```

```
> This tells me that MKMAPHK1 is great for those 1 mile range maps in a
> heavily populated area NO BIGGER. If you care to try this the coordinance
> for Birmingham,AL i used where 33,31.24 N - 86,49,53W
>
> I figured i would post this here and save some of you a lot of waiting for a map
> to get done then only to find it didn't give you what you wanted. Because i
> would expect with a slower computer this could be really a long wait to find
> out you didn;t get a map at all.
```

Bill, thanks fo rposting your results. As we get more input from other users, we will be getting better benchmarks and limit the box of what is acceptable.

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- * A little radio that lets kids talk
- * to astronauts, and smile

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>and get a letter (which for all I know, could be from the IRS or FBI, or
>whatever, only to find it is some old retired kodger who wants to have a
>return receipt for his \$24 bucks...) Another 2 hours of programming time
>lost...
>
>Wow, this FLAMING could get adicting, hi hi. I have a lot of other pet
>pieves too... but I guess they are not related to APRS (grin!) :-)
>
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
>
Hi Again,Bob?

Don't let these guys get to you. But the more APRS users there are out there
and the bigger and better the program gets, the chances for more and more
gripes from the population of users. The only advise I have (which carries
no weight at all is) try not to let the program get to big and complicated
for us dummies, of which I am sure there are many. Hi. Anyway, I have no
gripes or complaints. 73
Jim N4PUQ in Tn. A 2 year APRS user.>
>

151. APRS and Olympic Torch!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 6 Nov 1995 20:12:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951106200246.13157A-100000@greatlakes>
Rendered body type: text/plain

Heard a rumor that HAM radio is NOT going to be used AT ALL this year for
the cross country running of the Olympic Torch. The RUMOR says that
someone teamed up with Radio Shack to use bazillions of CB's. BUT THAT
on-air tests (without repeaters of course) are leaving the organiziers
real worried about being able to communicate on CB... over the needed
distances..

TWO THINGS COME TO MIND!

- 1) HAM RADIO needs to waltz in and save the day
- 2) I cant imagine anything more FUN than putting a GPS/TNC on the
OLYMPIC TOURCH CHASE VEHICLE with the path of RELAY,WIDE,WIDE,WIDE!

[Then waltz into your local TV station with your LAPTOP]
[and show them what you can do! Dress well!, Shave.]

If anyone can substantiate this rumor and can find someone in charge and
suggest A GPS unit on the Olympic Tournch, I bet you would have NO
PROBLEMS GETTING PACCOMM or one of the other TNC MFRS to donate the
equipment! But who has their foot in the door?

AND ATLANTA IS WIRED FOR APRS!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

152. Re: [APRSSIG:4268] validation

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 6 Nov 1995 20:34:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951106203044.13157H-100000@greatlakes>
Rendered body type: text/plain

On Mon, 6 Nov 1995, Chris DeWaal wrote:

- > I'm having trouble with my DF validation #. After I entered the number
> and saved to the config file, the program started beeping bad # in the
> upper right hand corner of the screen. I take this to mean the

THE BAD FILE NUMBER MESSAGE CAN MEAN 2 THINGS:

- 1) APRS could not find a file in the APRS\SYSTEM directory (not likely)
- 2) BAD COMM PORT CONFIG, Port number, PORT in-op, PORT not enabled or
anythig else wrong with your COM port. SInce you are trying to config
for DF, I assume that the problem is in how you configed your DF COM port.

APRS ONLY can use COM1 or COM2. You can CHEAT by using the SAME
interrrupts for 3 or 4 as you use for 1 or 2, then, and only then, can

you use COM3 or COM4.

Hoe this helps everyone...

153. Re: [APRSSIG:4252] Re: \$32 CD ROMS

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Mon, 6 Nov 1995 20:28:02 -0600
To: aprssig@tapr.org
Message-ID: <9511070228.AA25944@omnifest.uwm.edu>
Rendered body type: text/plain

Thanks, Dave..I'll try and find a copy. Prescott is not exactly a big town. i's located between PHX and FLG. We have a nice mountain town, but lack many consumer goods that the biggies have. Thanks, again, for the help

Alan,

Retail is about \$75, discount at \$70, and maybe mailorder at less.

Dave

154. Re: [APRSSIG:4253] Why All The Complaining???

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 6 Nov 1995 22:21:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.951106214156.235D-100000@laraby.tiac.net>
Rendered body type: text/plain

On Mon, 6 Nov 1995, Alan Unangst wrote:

> Bob has developed a very
> powerfull, usefull, and enjoyable computer program. The program has
> applications from emergency service, community service, to just plane HAM
> fun.

AGREED!

> This program is extreemly powerful and complicated, and occasionally
> has had a bug or two.

"ocassionally" ? No, more like 'usually'

"powerful and complicated" yes, but I think *unnecessarily* complicated. Bob had grown up with the program. He knows it inside and out. He knows where the command is to do everything. He seems to have forgotten that those of us not as well versed as him do not know where everything is. The help screen(s) are not complete. The documentation is scattered in a dozen files. Some of the documentation has not been updated to reflect changes that Bob has made.

> Most of us appreciate constructive criticism, but to harang the author
> because the program does not do everything that you think it should is
> wrong.

Bob shouldn't be 'haranged' but if the program does not do what the author *says* it should do, then he needs to address the problem.

> I use the PHG and sometimes see rings.

Don't understand this....I see rings only when I type the command for them.

> I could'nt hit one if my life
> depended on it, using any protocol.....does that mean that the program is
> flawed???? NO IT MEANS THAT I LIVE IN THE PEOPLES REBUBLIC OF HAISLEY, WITH
> VERY RESTRICTIV CC&Rs, AND AM RUNNING A SPIDER HIDDEN IN MY ATTIC!!!!

Don't understand this either. The only reason for you not to "hit one" is if your and/or the other stations PHG rings are not an aproximation of true coverage. If you have a 'poor' antenna system then your PHG info should reflect this.

>

> If we are not careful, we are likely to enrage Bob to the point that he
> pulls his program, or starts charging for it.

I sent some money to SOMEONE!!!! Guess it wasn't Bob ;-)

> I, for one, want to send a big THANK YOU to Bob. I really enjoy the program,
> and discovering the new things that I can do with it. I would hate to see it
> dissappear.

Thank You as well, Bob.

A little background here..... I have been on 'regular' packet for about three years now. I *never* left my station on when I was not there. I turned it on, checked my PBBS and shut it off.

Since I've discovered APRS not only do I leave my station on 24 hrs a day (running APRS) but I now have *TWO* APRS stations both running 24 hrs a day. One of which will soon be a WX station.

At my next radio club meeting I will give a talk about APRS, trying to 'open the eyes' of some fellow club members and maybe even 'light the fire'! I give floppies to anyone who will take them.

I am truly "excited" about APRS, its current capabilities, and its future potential.

But that does not mean that I think the program is perfect, or that Bob could not improve things even more.

Richard Amirault
amirault@tiac.net

N1JDU
"Go Fly A Kite"

Boston, Massachusetts USA

155. Re: Tweaks to MKMAPHK1 generated maps

From: KSwaggart@aol.com
Date: Mon, 6 Nov 1995 23:15:07 -0500
To: aprssig@tapr.org
Message-ID: <951106222519_99766056@mail06.mail.aol.com>
Rendered body type: text/plain

The datum you set in your GPS should use the same datum as the maps. Different surveys at different times used various datums. Positions derived using one datum will show errors when plotted on maps derived from a different datum. Not necessarily big errors unless you're trying to target a cruise missile through someone's office window.

None of the surface maps I have show what the source datum was. The aviation charts show the horizontal datum as "North American Datum of 1983" or 1927. My Magellen book says to use NAD27 for North America (this is the North American Datum of 1927). Since I am using WGS84, (World Geodetic System) I may have not needed to correct my maps if I had selected NAD27! Oh well..... I suspect the USGS CD ROM data was based on NAD27.

I know WB4APR is right when he says we really don't need to be this accurate, but it sure fun trying to get the most out of the GPS and APRS. Get that little car symbol tracking right on that street in the .25 mile scale!

156. Info needed

From: ke4eer@ro.com (William Nolle)
Date: Mon, 06 Nov 1995 23:43:29
To: aprssig@tapr.org
Message-ID: <199511070552.XAA12417@sh1.ro.com>
Rendered body type: text/plain

Sure ain't seen much traffic on the sig in the last 3 or 4 days!. Is there any way good or bad to get info on the coordianance of the center of city's located within a state other then trying to find a map and figuring this out the hard way. With all the info on the net i would think that info is available on it somewhere. Taking the files off of the CD is easy and making the maps isn't all bad, but finding the center of those city's i want to do is another story.

Bill KE4EER
ke4eer@ro.com (Did i chase everyone off of the sig, didn't think i was that bad)

157. CD ROMS

From: wricharz@ix.netcom.com (William Richarz)
Date: Tue, 07 Nov 1995 01:20:04 -0500
To: aprssig@tapr.org
Message-ID: <199511070620.WAA00395@ix2.ix.netcom.com>
Rendered body type: text/plain

I called the USGS at 1-800-USA-MAPS & listened to several recorded messages with Menus, etc...Finally after talking to a real person, I obtained the toll free No. where you can actually buy the CD Roms. That No. is 1-800-435-7627.

To obtain the CD Rom of your choice you must fax your order to them, they will not accept an order over the phone. That Fax No. is 303-202-4693. Include all

the necessary credit card info, plus your ph. no. Also add \$3.50 to the price of \$32 for the CD Rom. The lady that answered the phone, said to expect a 2-4 week turn around. If you're in a hurry, you might want to call Map Express, at 1-800-627-0039. Their price is \$38 plus \$5 shipping US Mail, or if you're in a real hurry they can Fedex it.

I obtained this info while trying to order a CD Rom for myself. Hope this helps anyone that wants to go this route.

Bill Richarz <WA4VAF>
wricharz@ix.netcom.com

158. Re: [APRSSIG:4242] Re: Power Height Gain

From: rwf@mindspring.com
Date: Tue, 7 Nov 1995 01:21:22 -0500
To: aprssig@tapr.org
Message-ID: <199511070621.BAA24685@dylan.mindspring.com>
Rendered body type: text/plain

At 08:12 AM 11/6/95 -0600, you wrote:
> would be happy to distribute it to selected
> users as a Beta copy for critical review.
>
> How do I get it to y'all?

Sure I'd love to give it a try.

Ralph

N4NEQ

rwf@mindspring.com

You can ftp it to ftp.mindspring.com\users\rwf\incoming

Or just send me email and attach it as a file

159. Found the info

From: ke4eer@ro.com (William Nolle)
Date: Tue, 07 Nov 1995 00:21:50
To: aprssig@tapr.org
Message-ID: <199511070630.AAA13275@sh1.ro.com>
Rendered body type: text/plain

Hey i'm answering my own questions, i found the info i was looking for but now i have another problem reading the figures!.

Demopolis Alabama +32500546 -87843170 how do i break this down so the program can understand this better then i do.

Bill KE4EER
ke4eer@ro.com

160. Re: [APRSSIG:4281] Found the info

From: rwf@mindspring.com
Date: Tue, 7 Nov 1995 02:20:31 -0500
To: aprssig@tapr.org
Message-ID: <199511070720.CAA01763@dylan.mindspring.com>
Rendered body type: text/plain

Where did you find that info?

At 12:30 AM 11/7/95 -0600, you wrote:
> Hey i'm answering my own questions, i found the info i was looking for but
> now i have another problem reading the figures!.
>
> Demopolis Alabama +32500546 -87843170 how do i break this down so the
> program can understand this better then i do.
>
> Bill KE4EER
> ke4eer@ro.com
>
>
>

>

161. Re: [APRSSIG:4233] Anymore Calif maps out there?

From: JeffS5@aol.com
Date: Tue, 7 Nov 1995 02:23:10 -0500
To: aprssig@tapr.org
Message-ID: <951107022009_99947974@emout05.mail.aol.com>
Rendered body type: text/plain

Ken,

Please let me know where they'll be posted when ur finished.

Tnx, Jeff-WA6EQU

162. Re: [APRSSIG:4278] Info needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 7 Nov 1995 09:27:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951107092224.19210A-100000@greatlakes>
Rendered body type: text/plain

On Mon, 6 Nov 1995, William Nolle wrote:

> Is there a way to get info on the coordiance of the center of city's
> located within a state other then trying to find a map and figuring
> this out the hard way.

APR REPLY: I would think that the existing APRS maps showing most major highways, would be sufficient. Look at a state highway map to get an idea where the city center is relative to the nearest intersection, and then zoom in using APRS and the cursor to read the exact LAT/LONG.

163. Re: [APRSSIG:4273] APRS and Olympic TORch!

From: dwetzel@acs.uswest.com
Date: Tue, 7 Nov 1995 08:24:44 -0600
To: aprssig@tapr.org
Message-ID: <09f710f0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Heard a rumor that HAM radio is NOT going to be used AT ALL this year for the cross country running of the Olympic Torch. The RUMOR says that someone teamed up with Radio Shack to use bazillions of CB's. BUT THAT on-air tests (without repeaters of course) are leaving the organizers real worried about being able to communicate on CB... over the needed distances..

TWO THINGS COME TO MIND!

- 1) HAM RADIO needs to waltz in and save the day
- 2) I cant imagine anything more FUN than putting a GPS/TNC on the OLYMPIC TOURCH CHASE VEHICLE with the path of RELAY,WIDE,WIDE,WIDE!

[Then waltz into your local TV station with your LAPTOP]
[and show them what you can do! Dress well!, Shave.]

If anyone can substantiate this rumor and can find someone in charge and suggest A GPS unit on the Olympic Tourch, I bet you would have NO PROBLEMS GETTING PACCOMM or one of the other TNC MFRS to donate the equipment! But who has their foot in the door?

AND ATLANTA IS WIRED FOR APRS!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

If Atlanta can't do it this time, SLC will be ready for 2002!

;-)

Doug
KC7CO

164. USGS CD ROMS info

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 7 Nov 1995 10:34:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951107102533.22248A-100000@greatlakes>
Rendered body type: text/plain

After having told someone to go read the DOCS, I logged off here, and checked what was in my APRS\README\MAPS-CD.txt. This time I called the given phone numbers and played tic-tac-toe on the TTone phone...

But as noted by William Richarz, you can just go straight to the chase by faxing your order and credit card number. Here is my revised info in MAPS-CD.txt.

DETAIL STREETS: Making APRS maps from the 100,000:1 USGS CD ROMS is now EASY! Use KB4XF's MKMAPHK1.EXE and get a copy of the \$32 CD ROM from USGS that covers your area. USGS sells 13 diferent 100K CD's. To see which CD covers your area, hit the 1 KEY on your APRS screen to get to the whole USA map. Then press the MAPS-ALT command to see the CD.map which is under the USA map. This display shows you the areas of the 13 different ROMS. To obtain one of these CD ROMS, send \$32 each plus \$3.50 per order to the USGS Earth Science Info Center, 507 National Center, Reston, VA 22092. BE SURE TO SPECIFY THE Digital Line Graph (DLG) 100,000 OPTIONAL format and the correct ROM for your area. If you want to make bigger, 32 mile maps, then get the 2,000,000 CD that covers the whole US but without small roads and streets.

Useful phone info numbers. But you may as well skip right to the FAX, or mail them a check.

703-648-6045 AND 1-800-USA-MAPS - VoiceMail INFO
1-800-435-7627 - A real HUMAN (and the old fashioned HOLD)
303-202-4693 - FAX will accept credit card orders

To beat the 2 to 4 week delivery times promised by the Government, you can also call MAP Express 1-800-627-0039 and pay \$38 for the ROM plus \$5 handling and get it faster. They will also FEDEX it too...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

165. Re: [APRSSIG:4234] Re: Track foot prints

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Tue, 7 Nov 1995 07:40:28 -0800
To: aprssig@tapr.org
Message-ID: <199511071540.HAA04341@ix7.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>The NO> means that there is NO > symbol found, that is the separator between
>the FROM callsign and the TO callsign. APRS could NOT find that > char.
>
>Looks like you had HEADER ON, so that the HEADER was on a different line
>than the PACKET data itself?

Another SIG user suggested that I check BBSmsgs. I had to turn it on, and modify INITAEA as well. I just bought the PK-12, and you mention that "older" PK-12's need to have it on, but off is preferred if possible. It's fine now.

Do you think I should contact AEA for an upgrade? The main reason I went with the PK-12 is it's ability to automatically recognize that it is connected to a GPS in standalone mode. Later this week I hope to have a full time standalone tracker active in my car.

Jack

166. MacAPRS problem

From: horzepa@gdc.com (Stan Horzepa)
Date: Tue, 7 Nov 1995 11:45:08 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <9511071645.AA14061@mailhost.gdc.com>
Rendered body type: text/plain

I am having a problem with MacAPRS that is driving me nuts. I wonder if anyone here has experienced the same thing and has a solution? The problem is that messages in the message window are truncated at 39 characters.

To test the problem, I sent myself a QUICK BROWN FOX test message last

night and the results were as follows:

The message window displayed the outgoing message as:

the quick brown fox jumped over the lazy dog's back 0123456789

Then, the message window displayed the received message as:

the quick brown fox jumped over the lazy dog's

The return message was truncated at 46 characters rather than 39 characters, but it was still truncated. The only thing that occurs to me is that this may be memory related, that is, truncation occurs when you do not configure MacAPRS for maximum RAM.

Any ideas?

Stan, WA1LOU

P.S. As a side note, I sat down with the topo maps this weekend and calculated my HAAT (it's 481 ft) and reconfigured MacAPRS accordingly. Sorry if my old 980 ft entry caused any drop-outs.

--

Stan Horzepa	~	phone:	203-758-1811 x7369
Technical Writing Supervisor	~	email:	horzepa@gdc.com
General DataComm (MODEMS 'R' US)	~	radio:	WA1LOU
P. O. Box 1299	~	packet radio mail:	WA1LOU@N4GAA
Middlebury, CT 06762-1299	~	TCP/IP packet radio:	44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

---

## 167. Re: [APRSSIG:4288] MacAPRS problem

From: Sam\_Lipson@berlex.com (Sam Lipson)  
Date: Tue, 7 Nov 1995 09:09:02 -0800  
To: aprssig@tapr.org  
Message-ID: <09f93840@ccgate.berlex.com>  
Rendered body type: text/plain

Not knowing what your path was set to, you may have extended beyond 128 characters. I know many VHF TNCs default to a packet length of 128. My Kam+ defaults to 128 on VHF and only 64 on HF. I had to increase both to get full packets sent out. You may want to look into this as a possible solution.

73, de Sam, K06JR  
Packet: K06JR@KA6FUB.#NOCA.CA.USA.NOAM  
Internet: Sam\_Lipson@Berlex.Com  
!3759.23N/12205.13WM

---

Subject: [APRSSIG:4288] MacAPRS problem  
From: aprssig@tapr.org at Internet  
Date: 11/07/95 10:47

I am having a problem with MacAPRS that is driving me nuts. I wonder if anyone here has experienced the same thing and has a solution? The problem is that messages in the message window are truncated at 39 characters.

To test the problem, I sent myself a QUICK BROWN FOX test message last night and the results were as follows:

The message window displayed the outgoing message as:

the quick brown fox jumped over the lazy dog's back 0123456789

Then, the message window displayed the received message as:

the quick brown fox jumped over the lazy dog's

The return message was truncated at 46 characters rather than 39 characters, but it was still truncated. The only thing that occurs to me is that this may be memory related, that is, truncation occurs when you do not configure MacAPRS for maximum RAM.

Any ideas?

Stan, WA1LOU

P.S. As a side note, I sat down with the topo maps this weekend and calculated my HAAT (it's 481 ft) and reconfigured MacAPRS accordingly. Sorry if my old 980 ft entry caused any drop-outs.

--  
Stan Horzepa ~ phone: 203-758-1811 x7369  
Technical Writing Supervisor ~ email: horzepa@gdc.com  
General DataComm (MODEMS 'R' US) ~ radio: WA1LOU  
P. O. Box 1299 ~ packet radio mail: WA1LOU@N4GAA  
Middlebury, CT 06762-1299 ~ TCP/IP packet radio: 44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

168. Using ftp'd USGS data question

From: Bob Powers <bob@iagate.guard.state.ia.us>
Date: Tue, 7 Nov 1995 11:35:09 -0600 (CST)
To: aprssig@tapr.org@VM1.NoDak.EDU
Message-ID: <9511071137.aa20272@iagate.guard.state.ia.us>
Rendered body type: text/plain

I have a question on using the USGSMAP1.BAS program to read data ftp'd from USGS. The MAPS-CD.txt says to ftp the data and it will be data with filenames ending in .GRA. I ftp'd to the place mentioned, but after unzipping and un-taring the files I had a BUNCH of files ending in .DDF. I am not sure what to do with these or how to make them work with USGSMAP1. What am I missing

Bob - N0YKX

169. Re: [APRSSIG:4288] MacAPRS problem

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Tue, 7 Nov 95 12:53:21 EST
To: aprssig@tapr.org
Cc: horzepa@gdc.com
Message-ID: <CMM-RU.1.4.815766801.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

Stan

>I am having a problem with MacAPRS that is driving me nuts. I wonder if
>anyone here has experienced the same thing and has a solution? The
>problem is that messages in the message window are truncated at
>39 characters.

I saw your test messages last night, and I got them JUST FINE..

The problem is that you have something set wrong in the TNC.. Probably set to a 40 column display or something like that.. Or possibly PACLEN set too short..

I have seen this before, and it was TNC settings problems..

What kind of TNC do you have?

Keith

| | |
|---------------------------------------|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

170. Re: [APRSSIG:4276] Re: Why All The Complaining???

From: alanwc7r@primenet.com (Alan Unangst)
Date: Tue, 07 Nov 1995 10:54:18 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511071754.KAA23286@usr6.primenet.com>
Rendered body type: text/plain

I appreciate your reply, particularly the way you did it.

NOW I would like you to go to your monopoly game and pull out the little house, now place that little game piece in a coffee mug, now place that coffee mug (with the little house in it) into a large mixing bowl. Stand back and take a look...that's what my qth topography looks like, and you say if I can see the rings I should be bale to hit them...I don't think so!

Believe me, after having fought these people in court over antenna, and lost, I am doing the very best that I can....Happy APRSing & 73....Alan, WC7R

At 09:30 PM 11/6/95 -0600, Richard Amirault wrote:

>On Mon, 6 Nov 1995, Alan Unangst wrote:

>

>> Bob has developed a very

>> powerfull, usefull, and enjoyable computer program. The program has

>> applications from emergency service, community service, to just plane HAM

>> fun.

>

>AGREED!

>

>> This program is extreemly powerful and complicated, and occasionally

>> has had a bug or two.

>

>"ocassionally" ? No, more like 'usually'

>

>"powerful and complicated" yes, but I think *unnecessarily*

>complicated. Bob had grown up with the program. He knows it inside and

>out. He knows where the command is to do everything. He seems to have

>forgotten that those of us not as well versed as him do not know where

>everything is. The help screen(s) are not complete. The documentation is

>scattered in a dozen files. Some of the documentation has not been

>updated to reflect changes that Bob has made.

>

>> Most of us appreciate constructive criticism, but to harang the author

>> because the program does not do everything that you think it should is

>> wrong.

>

>Bob shouldn't be 'haranged' but if the program does not do what the

>author *says* it should do, then he needs to address the problem.

>

>> I use the PHG and sometimes see rings.

>

>Don't understand this....I see rings only when I type the command for them.

>

>> I couldn't hit one if my life

>> depended on it, using any protocal.....does that mean that the program is

>> flawed???? NO IT MEANS THAT I LIVE IN THE PEOPLES REBUBLIC OF HAISLEY, WITH

>> VERY RESTRICTIV CC&Rs, AND AM RUNNING A SPIDER HIDDEN IN MY ATTIC!!!!

>

>Don't understand this either. The only reason for you not to "hit one" is

>if your and/or the other stations PHG rings are not an aproximation of true

>coverage. If you have a 'poor' antenna system then your PHG info should

>reflect this.

>

>>

>> If we are not careful, we are likely to enrage Bob to the point that he

>> pulls his program, or starts charging for it.

>

>I sent some money to SOMEONE!!!! Guess it wasn't Bob ;-)

>

>> I, for one, want to send a big THANK YOU to Bob. I really enjoy the program,

>> and discovering the new things that I can do with it. I would hate to see it

>> dissappear.

>

>Thank You as well, Bob.

>

>A little background here..... I have been on 'regular' packet for about

>three years now. I *never* left my station on when I was not there. I

>turned it on, checked my PBBS and shut it off.

>

>Since I've discovered APRS not only do I leave my station on 24 hrs a day

>(running APRS) but I now have *TWO* APRS stations both running 24 hrs a

>day. One of which will soon be a WX station.

>

>At my next radio club meeting I will give a talk about APRS, trying to

>'open the eyes' of some fellow club members and maybe even 'light the fire'!

>I give floppies to anyone who will take them.

>

>I am truly "excited" about APRS, its current capabilites, and its future

>potential.

>

>But that does not mean that I think the program is perfect, or that Bob

>could not improve things even more.

>

>
>Richard Amirault N1JDU Boston, Massachusetts USA
>amirault@tiac.net "Go Fly A Kite"
>
>

171. How do I Upload Map Files to TAPR

From: alanwc7r@primenet.com (Alan Unangst)
Date: Tue, 07 Nov 1995 10:57:57 -0700
To: aprssig@tapr.org
Message-ID: <199511071758.KAA23684@usr6.primenet.com>
Rendered body type: text/plain

I have detail maps of North Central Arizona, that I would like to share with the rest of the APRS fanatics (like me), however, I am new to "cyber Space", and don't know how to do it.

Would someone, who knows how this is done, please help me??

In advance, thank you!

73,

Alan, WC7R

172. Unblock all 1:100K USGS files in a directory at one time

From: Thomas Griffin - x7792 <griff@SSD.intel.com>
Date: Tue, 7 Nov 1995 09:58:36 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <9511071758.AA19318@bungee.SSD.intel.com>
Rendered body type: text/plain

I took Gerry Creager's UNBLOCK.BAS program and modified it to unblock all 1:100K USGS files at one time in a specified directory. The unblocked files are then written to another directory. I named the new program UNBLKALL.BAS and uploaded it to the aprssig upload directory (/tapr/SIG/aprssig/upload) on ftp.tapr.org.

Much thanks to Gerry, N7JXS, who wrote the original program, and John Cavanagh, KB4XF, who provided the fsel() subroutine in MKMAPHK1.BAS which made the new functionality possible.

If you find any problems with UNBLKALL.BAS, please fix them yourself and upload it to ftp.tapr.org.

73, Thomas (Griff) Griffin, N7ZKL
Beaverton, Oregon, USA
Internet: n7zkl@amsat.org
Packet: n7zkl@k7iqi.or.usa.na

173. Re: [APRSSIG:4289] Re: MacAPRS problem

From: horzepa@gdc.com (Stan Horzepa)
Date: Tue, 7 Nov 1995 12:56:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <9511071756.AA19013@mailhost.gdc.com>
Rendered body type: text/plain

>
> Not knowing what your path was set to, you may have extended beyond 128
> characters. I know many VHF TNCs default to a packet length of 128. My Kam+
> defaults to 128 on VHF and only 64 on HF. I had to increase both to get full
> packets sent out. You may want to look into this as a possible solution.
>

That could account for the problem except that if a message is truncated by PACLEN, the part that is truncated should be transmitted in the next packet. Does MacAPRS discard the truncated portion of the message?

Also, why are messages received from other stations all truncated at 39 characters?

Thanks for your suggestion, but I'm still stumped!

73,

Stan, WA1LOU

--
Stan Horzepa ~ phone: 203-758-1811 x7369
Technical Writing Supervisor ~ email: horzepa@gdc.com
General DataComm (MODEMS 'R' US) ~ radio: WA1LOU
P. O. Box 1299 ~ packet radio mail: WA1LOU@N4GAA
Middlebury, CT 06762-1299 ~ TCP/IP packet radio: 44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

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## 174. Re: [APRSSIG:4293] How do I Upload Map Files to TAPR

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 7 Nov 1995 14:24:03 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951107141302.26876C-100000@greatlakes>  
Rendered body type: text/plain

On Tue, 7 Nov 1995, Alan Unangst wrote:

> I have detail maps of North Central Arizona, that I would like to share  
> with the rest of the APRS fanatics (like me), however, I am new to "cyber  
> Space", and don't know how to do it.

APR REPLY: With the potential for bazillions of maps, the only way to make sense of maps is to distribute them as a package complete with their own MAPLIST.xxx. Follow the steps and guidelines in MAPS.TXT. Here they are again, plus some detail on ZIPPING up your package.

1) Build your maplist with ONLY WORLD, USA, USAWEST, AZstate, plus your additional maps. In otherwords, other than YOUR maps, the only MAPS that should be in the file are the ones that are LARGER and which overlap your new maps.

2) Make a temporary file, say MAPDO, and make a subdirectory within it. COpY all your MAPS into that subdirectroy and copy your MAPLIST.xxx into the MAPDO directory. Then, within MAPDO, ZIP it all up using PKZIP -r-p MYMAPS.ZIP

ThE result will be a distro file called MYMAPS.zip...

There are compelling reasons why NOT to include any maps in your MAPLIST and in your distro that are the responsibility of someone else. Read MAPS.TXT.

---

## 175. Re: [APRSSIG:4281] Found the info

From: Barbara Fehner <fehner@cts.com>  
Date: Tue, 7 Nov 95 12:15 PST  
To: aprssig@tapr.org  
Message-ID: <m0tCuQH-000V4wC@mailhub.cts.com>  
Rendered body type: text/plain

At 12:30 AM 11/7/95 -0600, you wrote:

>Hey i'm answering my own questions, i found the info i was looking for but  
>now i have another problem reading the figures!.

>

>Demopolis Alabama +32500546 -87843170 how do i break this down so the  
>program can understand this better then i do.

>

>Bill KE4EER

>ke4eer@ro.com

>

Bill, could you enlighten the rest of us as to where you found the cities list. I have been looking for the same information.

Barbara KK6IB  
E-Mail: fehner@cts.com

Back after a long illness.

---

## 176. Re: [APRSSIG:4296] Re: How do I Upload Map Files to TAPR

From: alanwc7r@primenet.com (Alan Unangst)  
Date: Tue, 07 Nov 1995 12:56:21 -0700  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <199511071956.MAA09325@usr6.primenet.com>  
Rendered body type: text/plain

Thanks, Bob, I will follow your instructions, but, how do I upload it to TAPR, or any place else, for that matter. What are the "key strokes", or mechanics.

Sorry to be a pain....73, Alan, WC7R

At 01:31 PM 11/7/95 -0600, Bob Bruninga wrote:  
>On Tue, 7 Nov 1995, Alan Unangst wrote:  
>> I have detail maps of North Central Arizona, that I would like to share  
>> with the rest of the APRS fanatics (like me), however, I am new to "cyber  
>> Space", and don't know how to do it.  
>  
>APR REPLY: With the potential for bazillions of maps, the only way to  
>make sense of maps is to distribute them as a package complete with their  
>own MAPLIST.xxx. Follow the steps and guidelines in MAPS.TXT. Here  
>they are again, plus some detail on ZIPPING up your package.  
>  
>1) Build your maplist with ONLY WORLD, USA, USAWEST, AZstate, plus your  
>additional maps. In otherwords, other than YOUR maps, the only MAPS that  
>should be in the file are the ones that are LARGER and which overlap your  
>new maps.  
>  
>2) Make a temporary file, say MAPDO, and make a subdirectory within it.  
>COpy all your MAPS into that subdirectroy and copy your MAPLIST.xxx into  
>the MAPDO directory. THEN, within MAPDO, ZIP it all up using PKZIP -r-p  
>MYMAPS.ZIP  
>  
>The result will be a distro file called MYMAPS.zip...  
>  
>There are compelling reasons why NOT to include any maps in your MAPLIST  
>and in your distro that are the responsibility of someone else. Read  
>MAPS.TXT.  
>  
>  
>

---

## 177. Re: [APRSSIG:4297] Re: Found the info

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>  
Date: Tue, 7 Nov 95 16:04:07 EST  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.815778247.ksproul@old-hercules.rutgers.edu>  
Rendered body type: text/plain  
  
>Hey i'm answering my own questions, i found the info i was looking for but  
>now i have another problem reading the figures!..  
>  
>Demopolis Alabama +32500546 -87843170 how do i break this down so the  
>program can understand this better then i do.  
>  
>Bill KE4EER  
>ke4eer@ro.com

Tell me where you got the data and I will give you the code to decipher it..  
I have several different sources of data like this, all different..

There are a few different 'weird' standards, used from FORTRAN days..

Keith

|                                                                                       |                                    |
|---------------------------------------------------------------------------------------|------------------------------------|
| Keith Sproul                                                                          | Ham Radio: WU2Z                    |
| Student Housing Network Coordinator                                                   | ksproul@noc.rutgers.edu            |
| Rutgers University Computing Services                                                 | 908 445-3695 Work 908 445-2968 Fax |
| <a href="http://www.ns.rutgers.edu/~ksproul/">http://www.ns.rutgers.edu/~ksproul/</a> | 908 821-4828 Home                  |

---

## 178. Re: [APRSSIG:4286] USGS CD ROMS info

From: Dick Mead <mead@skat.usc.edu>  
Date: Tue, 7 Nov 95 21:12:21 GMT  
To: aprssig@tapr.org  
Message-ID: <CMM.0.90.2.815778741.mead@hamal.usc.edu>  
Rendered body type: text/plain  
  
>  
> To beat the 2 to 4 week delivery times promised by the Government, you can  
> also call MAP Express 1-800-627-0039 and pay \$38 for the ROM plus \$5  
> handling and get it faster. They will also FEDEX it too...  
>

I called the number and the person there referred me to:  
Geodata 1-314-341-0851

Who took my order over the phone since I used Visa/MC.

FYI

Dick WB6NGC

---

## 179. City Coordinance info

From: ke4eer@ro.com (William Nolle)  
Date: Tue, 07 Nov 1995 15:14:06  
To: aprssig@tapr.org  
Message-ID: <199511072220.QAA04632@sh1.ro.com>  
Rendered body type: text/plain

I received some messages to ask how and were i obtained the coordinance information for city's. This makes it much easier to pick data off the CD-Rom and then not have to guess on where that city is located. Here is the address.

<http://tiger.census.gov/places.html>

Hope that helps (It's a BIG file tough) 23655 records

Bill KE4EER  
ke4eer@ro.com

---

## 180. Re: [APRSSIG:4297] Re: Found the info

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>  
Date: Tue, 07 Nov 1995 16:17:49 -0500  
To: aprssig@tapr.org  
Message-ID: <199511072122.QAA20802@neptune.gsfc.nasa.gov>  
Rendered body type: text/plain

At 14:23 11/7/95 -0600, you wrote:

>At 12:30 AM 11/7/95 -0600, you wrote:

>>Hey i'm answering my own questions, i found the info i was looking for but  
>>now i have another problem reading the figures!.

>>

>>Demopolis Alabama +32500546 -87843170 how do i break this down so the  
>>program can understand this better then i do.

>>

>>Bill KE4EER  
>>ke4eer@ro.com

>>

>Bill, could you enlighten the rest of us as to where you found the cities  
>list. I have been looking for the same information.

>

>Barbara KK6IB  
>E-Mail: fehner@cts.com

>

>Back after a long illness.

There is a fine city list with enormous lat, long, & elevation data bundled with the STSPLUS satellite tracking program, available amongst other places at the NASA Marshall ftp /www site.

Bob Kirk  
N3OZB

---

## 181. Re: [APRSSIG:4267] Re: garmin.exe gardown6.exe

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>  
Date: Tue, 07 Nov 1995 17:20:47 -0500  
To: aprssig@tapr.org  
Message-ID: <309FDBBF.7188@wingsbbs.com>  
Rendered body type: text/plain

Ronald Kramer wrote:

>

> On Mon, 6 Nov 1995 14:43:41 -0600, you wrote:

>

> >I HAVE DOWNLOADED BOTH OF THESE PROGRAMS(GARMIN.ZIP, GARDOWN6.ZIP) AND  
> THEY

> >WILL NOT UNPACK PROPERLY. I HAVE EVEN TRIED TO USE THE PKZIPFIX AND STILL  
> NO

> >LUCK. IS THERE A MIRROR SITE WITH THESE FILES? IF SO WHERE.

>

> Possible problem is that you did not download in Binary mode....

> it will get you evvertime...

>  
> Regards, Ron ... 73 de Ron  
> Internet: rkramer@cdx.net (Ron Kramer)  
> Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

No, those files just don't work... They are broken. Have been for months.

I think the guy who uploaded them did it in ASCII mode.

Sam.

---

## 182. Re: [APRSSIG:4303] Re: gardown6.exe >> now 7

From: rkramer@cdx.net (Ronald Kramer)  
Date: Wed, 08 Nov 1995 03:22:22 GMT  
To: aprssig@tapr.org  
Message-ID: <199511080323.VAA16710@sys1.tapr.org>  
Rendered body type: text/plain

On Tue, 7 Nov 1995 16:29:05 -0600, you wrote:  
Hi Sam and fellow APRSer's After seeing this reply  
I checked the tpar upload directory and the gardown7.zip  
that was there is gone. I then uploaded a FRESH copy  
of GARDOWN7.ZIP using binary upload.  
Hope that this helps everyone out.

>  
>No, those files just don't work... They are broken. Have been for months.  
>  
>I think the guy who uploaded them did it in ASCII mode.  
>  
>  
>Sam.  
>

Regards, Ron ... 73 de Ron  
Internet: rkramer@cdx.net (Ron Kramer)  
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

---

## 183. my "MacAPRS problem"

From: horzepa@gdc.com (Stan Horzepa)  
Date: Wed, 8 Nov 1995 08:33:14 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <9511081333.AA06023@mailhost.gdc.com>  
Rendered body type: text/plain

I solved my "MacAPRS problem" last night. Keith tipped me off to the solution when he suggested that something in the TNC was set to cause a lower than desired character line length. So, I pulled out the manual last night and, lo and behold, the SCREENLN command was screaming, "Fix me, fix me." How I overlooked SCREENLN before, I'll never know.

Thanks to all for your suggestions,

Stan "older but wiser" Horzepa, WA1LOU... (well, definitely older)

--  
Stan Horzepa ~ phone: 203-758-1811 x7369  
Technical Writing Supervisor ~ email: horzepa@gdc.com  
General DataComm (MODEMS 'R' US) ~ radio: WA1LOU  
P. O. Box 1299 ~ packet radio mail: WA1LOU@N4GAA  
Middlebury, CT 06762-1299 ~ TCP/IP packet radio: 44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

184. Re: [APRSSIG:4284] Re: Info needed

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 8 Nov 1995 07:42:44 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511081342.HAA09292@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Bruninga sez:

>
> On Mon, 6 Nov 1995, William Nolle wrote:
>

> > Is there a way to get info on the coordiance of the center of city's
> > located within a state other then trying to find a map and figuring
> > this out the hard way.
>
> APR REPLY: I would think that the existing APRS maps showing most major
> highways, would be sufficient. Look at a state highway map to get an
> idea where the city center is relative to the nearest intersection, and
> then zoom in using APRS and the cursor to read the exact LAT/LONG.

Go by the local airport and find where you can buy a "Sectional" chart. (or a WAC) These charts have grid lines for checking coordinates, and they're pretty good for doing rough checks. We use them, now, in the lab when we're going out to do a survey job somewhere in the boonies. Do our planning by looking at the Sectional, grab the monuments list and check what's local to that, and then go do the survey.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

185. GPS PCBoard

From: W2HOB@aol.com
Date: Wed, 8 Nov 1995 08:59:19 -0500
To: aprssig@tapr.org
Message-ID: <951108085918_101090493@mail06.mail.aol.com>
Rendered body type: text/plain

Someone on the SIG posted a message, sometime ago, that mentioned a small printed circuit board that fit inside a DB-9 shell that I thought was similar to the HSP/SPM circuit described by WB4APR in the docs.

It was available from FAR Circuits in Dundee IL at a cost of \$3 + \$1.50 shipping. I sent for and received one. It is not what I expected as it looks like it only holds a couple of diodes and some resistors. The circuit I was expecting had a bunch of diodes, some resistors, capacitors, and a couple of 2N2222's. APRS controlled the switching between the GPS receiver and the TNC. I was going to build this and thought the pc board would make it neater than a soldered glob on vector board!

Would the person who originally posted the info please describe what this pc board does... \$4.50 won't break my bank (grin), but I just want to know what I bought!

THanks so much for reading this... sorry for the bandwidth!
73 de Boyd W2HOB@aol.com

186. Coordenance

From: ke4eer@ro.com (William Nolle)
Date: Wed, 08 Nov 1995 08:41:23
To: aprssig@tapr.org
Message-ID: <199511081547.JAA12735@sh1.ro.com>
Rendered body type: text/plain

Gerry,Bob and others, my message must not have made it to the sig. I found the information at Tigers on the net about finding the exact coordiance of a city or town. Boy sure makes things a lot easier. Now all i do is enter that info and it's always right on Target. Looking at some of the current maps with APRS just doesn't cut it because they are off by as much as 3 or 4 miles, so if your making 1-10 mile maps that doesn't help at all. Now i have a list off all city's within my state. The list is available and covers all of the US, it's big @.

<http://tiger.census.gov/places.html>

I now have 141 detailed street level maps for Alabama and users are asking for more. By the way the places list has much more information in it then just Lat/Lon but the last two colums are the coordiance, and if your like me and those figures don't make much sence Bob set me straight on how to convert them to APRS standards. There maybe a figure like 33.123456 to convert this take the figure after the period and multiply it by 60 so in this case it would

be .123456 X 60 = 7.40736 result = 33,7.40736 I figured i would explain this for those users that are like me and get lost walking around the block.

Bill KE4EER
ke4eer@ro.com

187. RE: [APRSSIG:4281] Found the info

From: "Richard L. Holbert" <rhobert@manny.rcinet.com>
Date: Tue, 7 Nov 1995 14:12:26
To: aprssig@tapr.org
Message-ID: <199511081442.JAA28111@manny.rcinet.com>
Rendered body type: text/plain

William,

Tell MKMAP.EXE to use 32,30.0328 and 87,50.5902 for the center of the map.

I converted them to base 60 by multiplying the decimal degrees by 60.

Hope this helps.

Rick, KB8DNR

Work: rhobert@arinc.com
Home: rhobert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

188. Re: [APRSSIG:4305] my "MacAPRS problem"

From: Don Froula <froula@cig.mot.com>
Date: Wed, 8 Nov 1995 09:08:53 -0600
To: aprssig@tapr.org
Message-ID: <199511081516.KAA11148@po_box.cig.mot.com>
Rendered body type: text/plain

Stan, I played with the settings last night and concluded that the "screenl" parameter was the problem...but you beat me to it!

A related problem is that the MacAPRS message window size will only hold a little over 50 message characters, although I find that message lines are frequently much longer. There are no side-scroll bars on the message window, so it is not possible to see the final characters on many messages. This is NOT a "screenl" problem, as I can set "screenl" to 132, and am still unable to view complete messages.

The only way around this that I have found is to use a text editor to examine the APRS log file, which does contain the full text. Not a very elegant solution, though.

Any ideas???

> I solved my "MacAPRS problem" last night. Keith tipped me off to the
> solution when he suggested that something in the TNC was set to cause
> a lower than desired character line length. So, I pulled out the manual
> last night and, lo and behold, the SCREENLN command was screaming, "Fix
> me, fix me." How I overlooked SCREENLN before, I'll never know.
>
> Thanks to all for your suggestions,
>
> Stan "older but wiser" Horzepa, WA1LOU... (well, definitely older)

189. Newton and GPS

From: Don Froula <froula@cig.mot.com>
Date: Wed, 8 Nov 1995 09:19:25 -0600
To: aprssig@tapr.org
Message-ID: <199511081527.KAA11816@po_box.cig.mot.com>
Rendered body type: text/plain

I was looking for a way to monitor the NMEA output of my Motorola OEM board-based tracker to see if my QST patch antenna was working well enough to lock. I thought of using my Newton as a monitor. However, decoding the NMEA sentences while driving and squinting at the tiny screen was definitely a safety hazard! I scanned the Newton archive sites and spotted an application called GPS Button. It provides a floating "GPS" button that expands to a full status window containing LAT/LON, UTC, and sat status. In addition, it allows one to log the current position by selecting an insertion point in the Notepad and hitting a button. When connected, the Newton clicks until three sats are acquired, when the sound changes to a sonar-type of "ping".

The only catch is that the program (shareware) only works with a Trimble unit with the output port set to "Newton" mode. Some investigation proved that the Trimble "Newton" mode was merely standard NMEA GGA and VTG sentences sent at 9600 baud, rather than the conventional 4800 baud NMEA rate.

An hour or so with a Mac file editor and a Newton debugger yielded a patched version that works with any standard 4800 baud NMEA GPS unit. The "ping" is ideal for determining GPS lock without taking my eyes off of the road.

Please contact me at froula@cig.mot.com for information on the patching technique.

Don
WD9DMP

190. Re: [APRSSIG:4303] Re: garmin.exe gardown6.exe

From: "robert marley" <marley@lu.lincoln.edu>
Date: Wed, 8 Nov 95 12:47:21 +0000
To: aprssig@tapr.org, rkramer@cdx.net
Message-ID: <marley.1166222481A@lu.lincoln.edu>
Rendered body type: text/plain

HI RON, THANKS FOR ANSWERING MY MAIL. IS THERE ANY PROGRAM AVAILABLE THAT WILL TAKE THE PLACE OF THESE FILES? IF SO WHERE ARE THEY AND DO THEY WORK. I AM NEW TO THIS AND JUST GETTING THINGS HOOKED UP. ALSO WHAT KIND OF TNC IS A GOOD ONE TO USE THAT WILL INTERFACE THE GPS AND COMPUTER? THANK'S

73'S N30BQ
MARLEY@LU.LINCOLN.EDU

191. Re: [APRSSIG:4293] How do I Upload Map Files to TAPR

From: AZWDC@aol.com
Date: Wed, 8 Nov 1995 14:13:37 -0500
To: aprssig@tapr.org
Message-ID: <951108141241_101321940@emout06.mail.aol.com>
Rendered body type: text/plain

Alan..

I would appreciate it if you could mail me a 3.5 inch 1.44Mb floppy with these maps
and I will reimburse you for the postage

Thanks in advance:

Jim Owen (WW7J)
1224 N. Belvedere Ave.
Tucson, AZ. 85712
520-325-6333

192. Re: [APRSSIG:4302] Re: Found the info

From: Barbara Fehner <fehner@cts.com>
Date: Wed, 8 Nov 95 12:51 PST
To: aprssig@tapr.org
Message-ID: <m0tDHT2-000VDiC@mailhub.cts.com>
Rendered body type: text/plain

>There is a fine city list with enormous lat, long, & elevation data bundled with
>the STSPLUS satellite tracking program, available amongst
>other places at the NASA Marshall ftp /www site.
>

>Bob Kirk
>N30ZB
>

Be careful with this list. Dave Ransom put it together from several sources including information from his registered users. Some of the positions may be on the outskirts of the city and some are in the wrong format. He did not check the list.

Barbara KK6IB
E-Mail: fehner@cts.com

193. Re: [APRSSIG:4313] Re: How do I Upload Map Files to TAPR

From: alanwc7r@primenet.com (Alan Unangst)
Date: Wed, 08 Nov 1995 13:59:19 -0700
To: aprssig@tapr.org, aprssig@tapr.org

Message-ID: <199511082100.OAA19412@usr4.primenet.com>

Rendered body type: text/plain

Jim:

All maps, and other APRS goodies are on the APRS LLBBS (520) 778-9198, or N7QVU's LLBBS in PHX. Let me know if you find them.....73...Alan...//\

At 01:36 PM 11/8/95 -0600, AZWDC@aol.com wrote:

>Alan..

>

> I would appreciate it if you could mail me a 3.5 inch 1.44Mb floppy with
>these maps

>and I will reimburse you for the postage

>

>Thanks in advance:

>

>Jim Owen (WW7J)

>1224 N. Belvedere Ave.

>Tucson, AZ. 85712

>520-325-6333

>

>

194. APRS map mania

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)

Date: Wed, 8 Nov 1995 16:31:34 -0600

To: aprssig@tapr.org

Message-ID: <199511082231.QAA25633@uxa.ecn.bgu.edu>

Rendered body type: text/plain

With all of the messages floating around about making maps to fill the hard drive, I wonder if someone in the future could develop a routine where APRS could read the USGS cd-rom direct and put the desired map on the screen. Just a wild thought. Probably be a programming nightmare. It would save the harddrive for other things though hi hi.
73, Jay...

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

195. Re: [APRSSIG:4304] Re: gardown6.exe >> now 7

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>

Date: Wed, 08 Nov 1995 17:44:40 -0500

To: aprssig@tapr.org

Message-ID: <30A132D8.56BD@wingsbbs.com>

Rendered body type: text/plain

Ronald Kramer wrote:

>

> On Tue, 7 Nov 1995 16:29:05 -0600, you wrote:

> Hi Sam and fellow APRSer's After seeing this reply

> I checked the tpar upload directory and the gardown7.zip

> that was there is gone. I then uploaded a FRESH copy

> of GARDOWN7.ZIP using binary upload.

> Hope that this helps everyone out.

>

Thanks!!!

Sam..

196. Re: [APRSSIG:4316] APRS map mania

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>

Date: Wed, 8 Nov 95 20:41:47 EST

To: aprssig@tapr.org

Message-ID: <CMM-RU.1.4.815881307.ksproul@old-hercules.rutgers.edu>

Rendered body type: text/plain

> With all of the messages floating around about making maps to fill the
> hard drive, I wonder if someone in the future could develop a routine where
> APRS could read the USGS cd-rom direct and put the desired map on the
> screen. Just a wild thought. Probably be a programming nightmare. It
> would save the harddrive for other things though hi hi.

>

I THINK NOT... The method in which the maps are made SIGNIFICANTLY reduces the amount of points in the maps, to under 3000 points for the DOS version.

A typical file from the 1:100K files will produce 50,000 -> 100,000 points if there is no data reduction. On a the Mac, I can make one of these files in about 10 seconds AFTER reading the file in from CD, however, I can display it MUCH quicker if it is pre-processed.. To do it this quick, I read in the ENTIRE PK-ZIP file, UN-ZIP it in memory, processes it all in memory.... PK-UNZIP the file from disk it takes MUCH longer..

Also, the amount of text in these files that is just blanks and un-used data is very high..

What we ARE doing is to produce a CD-ROM with APRS Maps on it. The announcement about this went out a week or so ago..

We will be collecting ALL of the PC maps we can get our hands on, and also producing significant amounts of maps for MacAPRS/WinAPRS. (They are the same maps, no difference between the two) We expect to fill a 600meg CD with mostly maps.. It will of course have the latest versions of the software and any other related/useful programs. This will be released at Dayton 1996, and will contain the OFFICIAL RELEASE of WinAPRS.

Keith

| | |
|---|--|
| Keith Sproul
Student Housing Network Coordinator
Rutgers University Computing Services
http://www-ns.rutgers.edu/~ksproul/ | Ham Radio: WU2Z
ksproul@noc.rutgers.edu
908 445-3695 Work 908 445-2968 Fax
908 821-4828 Home |
|---|--|

197. Re: [APRSSIG:4316] APRS map mania

From: elekesa@cadvision.com (aaron elekes)
Date: Wed, 8 Nov 1995 23:16:29 -0700
To: aprssig@tapr.org
Message-ID: <9511090616.AA24286@huey.cadvision.com>
Rendered body type: text/plain

Is there anyone out there that may know of/or has any information on maps for APRS already made for Canada? (Wow long question)

I am looking for one for Calgary, Alberta, Canada? If anyone knows any information on getting a map scanned (Or whatever) please let me know.

Thanks...
De Aaron

198. CQ APRS: Santa Barbara

From: Jeff55@aol.com
Date: Thu, 9 Nov 1995 03:05:46 -0500
To: aprssig@tapr.org
Message-ID: <951109030546_17202318@emout05.mail.aol.com>
Rendered body type: text/plain

I'm going to be camping in the Santa Barbara (Ca.) area for the next few days and am curious if anyone knows of APRS activity in the area, and where?

If anyone knows, please reply asap, since we're leaving Thursday. I'll also pick up Packet Mail (WA6EQU@K6TZ) while we're there if answers can be sent via the Packet Net.

Thanks, Jeff - WA6EQU

P.S. Hope I can find more activity than is in the L.A. area (i.e. NONE!).

Thanks

199. Re: [APRSSIG:4306] Re: Info needed

From: "Jim Lynch" <k4gvo@america.net>
Date: Thu, 9 Nov 1995 05:23:19 +0000
To: Gerald J Creager <gerry@cs.tamu.edu>, aprssig@tapr.org
Message-ID: <199511091029.KAA12449@america.net>
Rendered body type: text/plain

> Date: Wed, 8 Nov 1995 07:48:57 -0600
> Reply-to: aprssig@tapr.org
> From: Gerald J Creager <gerry@cs.tamu.edu>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4306] Re: Info needed

> Bob Bruninga sez:
> >
> > On Mon, 6 Nov 1995, William Nolle wrote:
> >
> > > Is there a way to get info on the coordinance of the center of city's
> > > located within a state other then trying to find a map and figuring
> > > this out the hard way.
> >
> > APR REPLY: I would think that the existing APRS maps showing most major
> > highways, would be sufficient. Look at a state highway map to get an
> > idea where the city center is relative to the nearest intersection, and
> > then zoom in using APRS and the cursor to read the exact LAT/LONG.
>
> Go by the local airport and find where you can buy a "Sectional" chart. (or a
> WAC) These charts have grid lines for checking coordinates, and they're pretty
> good for doing rough checks. We use them, now, in the lab when we're going
> out to do a survey job somewhere in the boonies. Do our planning by looking
> at the Sectional, grab the monuments list and check what's local to that, and
> then go do the survey.
>
> 73, gerry
> --
> Gerry Creager N5JXS * SAREX Co-Investigator
> gerry@cs.tamu.edu * A little radio that lets kids talk
> * to astronauts, and smile
> *****
>
>
If you are doing one or two cities, this will work, but if you are
into a lot of maps, for the price of about 3-4 sectionals you can get
DeLorme's Street Atlas. It will give you Lat-Long, optionally.
Besides, you'll have it for other uses. As some have said, it isn't
very up-to-date, but 99% of the roads (or more) I'm interested in
haven't moved since it was pressed.

Jim.
Jim Lynch Fayetteville, GA K4GVO
'86 GL1200I k4gvo@america.net 44.36.34.20

200. Re: [APRSSIG:4314] Re: Found the info

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Thu, 09 Nov 95 07:24:35 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511091316.HAA22454@tbc2.tbcnet.com>
Rendered body type: text/plain
-- [From: * EMC.Ver #2.5.02] --

----- REPLY, Original message follows -----

> Date: Wednesday, 08-Nov-95 03:20 PM
>
> From: Barbara Fehner \ Internet: (fehner@cts.com)
> To: APRS SIG \ Internet: (aprssig@tapr.org)
>
> Subject: [APRSSIG:4314] Re: Found the info
>
> >There is a fine city list with enormous lat, long, & elevation data
bundled
> with
> >the STSPLUS satellite tracking program, available amongst
> >other places at the NASA Marshall ftp /www site.
> >
> >Bob Kirk
> >N30ZB
> >
> Be careful with this list. Dave Ransom put it together from several
sources
> including information from his registered users. Some of the positions may
be
> on the outskirts of the city and some are in the wrong format. He did not
check

> the list.
>
> Barbara KK6IB
> E-Mail: fehner@cts.com
>

----- REPLY, End of original message -----

You got that right! When I registered my version of STSPLUS, I gave him a lat/long I got from the FAA Airport/Facility Directory for the local airport. Others may have used better or worse information.

Anyone interested in the satellites or Shuttle or orbital mechanics in general should check it out. Dave Ransom's BBS # is 1-310-541-7299. Caution: because of the the graphics demand, and the computations done, a FAST computer with a math coprocessor and VGA or better is required for acceptable results. Slower computers (8088 or 286) won't do too well, I'm afraid.

This program may really be nice when Bob gets the APRSSAT "launched". Put in the "KEPS" and you'll be able to see it as it comes by your location.

Barry Leonard
N9VJQ
jleonard@tbcnet.com
N9VJQ@AOL.COM

201. RE: Candian Maps

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Thu, 9 Nov 95 8:46:02 EST
To: aprssig@tapr.org
Cc: elekesa@cadvision.com
Message-ID: <CMM-RU.1.4.815924762.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

Candian Maps...

I have some high-res data for Canada, and will be working on getting maps made from it between now and Christmas...

These maps will work with MacAPRS/WinAPRS to begin with, and I should be able to make PC maps sometime after that..

If you are in big hurry, send me personal email and we can discuss it..

Keith

| | |
|---|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

202. Re: [APRSSIG:4322] Re: Found the info

From: dwetzel@acs.uswest.com
Date: Thu, 9 Nov 1995 08:33:47 -0600
To: aprssig@tapr.org
Message-ID: <0a216450@acmospgw1.mnet.uswest.com>
Rendered body type: text/plain

----- REPLY, End of original message -----

You got that right! When I registered my version of STSPLUS, I gave him a lat/long I got from the FAA Airport/Facility Directory for the local airport. Others may have used better or worse information.

Anyone interested in the satellites or Shuttle or orbital mechanics in general should check it out. Dave Ransom's BBS # is 1-310-541-7299. Caution: because of the the graphics demand, and the computations done, a FAST computer with a math coprocessor and VGA or better is required for acceptable results. Slower computers (8088 or 286) won't do too well, I'm afraid.

This program may really be nice when Bob gets the APRSSAT "launched". Put in the "KEPS" and you'll be able to see it as it comes by your location.

Barry Leonard
N9VJQ

jleonard@tbcnet.com
N9VJQ@AOL.COM

----->

For Windoze users, WISP is another great tracker. It was built primarily to automate packsat operation and includes many features for auto upload and download from them. It also has the ability to launch a user-specified program just prior to satellite acquisition, meaning that you could let all of it run in background and have WISP launch APRS or WinAPRS just in time for the APRSsat pass!

Doug Wetzel
KC7CO
dwetzel@acs.uswest.com

203. Ultimeter-II DATA

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 9 Nov 1995 11:42:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951109113901.26022A-100000@greatlakes>
Rendered body type: text/plain

SOMEone said that APRS would not decode their U-II whcih was outputting a 40 character data stream instead of a 14 character data stream. I call Peet Bros, and they confirm that there is a mode that you can get the U-II into that will output a 40 charactre data report, but that it is for factory testing only, and shuld not be used.

If YOUR U-II got into that 40 character data mode, then you have to do a cold reset by removing the 9 volt battery and power. If you are doing a keyboard sequence that is putting you into that mode. THEN dont do it, hi hi...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

204. (no subject)

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Thu, 9 Nov 1995 11:23:24 -0600
To: aprssig@tapr.org
Message-ID: <199511091723.LAA10378@OAMPC10.csg.mot.com>
Rendered body type: text/plain

I have been seeing some messages regarding the Peet Ultimeter II. Are people using the Peet software to get data out of the U II? I do not have the s/w but have looked at the computer interface connector with a scope and find only low levels present with data that does not appear to be in ASCII format. Does anybody have any additonal info about this?

Paul, WD9ABE

205. Delorme Street Atlas w/ APRS????

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Thu, 9 Nov 1995 11:12:21 -0600
To: aprssig@tapr.org
Message-ID: <9511091712.AA26074@omnifest.uwm.edu>
Rendered body type: text/plain

Can you use Delorme Street Atlas with (Mac)APRS?

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

206. Re: Delomre Street Atlas w/APRS???

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Thu, 9 Nov 95 12:48:48 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.815939328.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

>Can you use Delorme Street Atlas with (Mac)APRS?

Sort-of..

We have the ability to load in PICT maps, this was announced awhile back, and you can save PICT (Screen dumps) from Delorme, then you have to manually add the lat/lon boundaries to the file..

This manual addition is what is the current hold-up.. When I get that made easier, this should work pretty well..

We showed this a little bit at the ARRL Digital Communications Conference in Dallas TX in September..

Delorme's data itself is fully protected by encryption/whatever, and they aren't interested in giving that information out.. So we cannot use the data on the CD itself..

Keith

| | |
|---|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

207. Re: Peet Ultimeter II Data

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Thu, 9 Nov 95 12:50:51 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.815939451.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

The Peet Ultimeter II data is 2400 baud ASCII data. They sell a cable to connect the RJ-11 connector to a DB-25 connector for 'normal' RS-232 use..

This cable does not have anything fancy in it...

Keith

| | |
|---|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

208. MFJ 8621 data radio

From: n8mwz@alpha.wcoil.com (Bob Hartman)
Date: Thu, 9 Nov 1995 15:38:56 -0500
To: aprssig@tapr.org
Message-ID: <199511092038.PAA18977@alpha.wcoil.com>
Rendered body type: text/plain

I apologize for the use of the bandwidth but since I don't have access to the NEWGROUPS and this is the group most likely to be interested anyway...

4-sale;
New MFJ data radio (packet only, not voice) 1200 or 9600 baud.
Crystals for 145.01 & 145.79 included (rig uses only
one set of frequencies at a time and must be trimmed for
frequency in use) Never been on the air. Plans changed and
no longer need. First \$105 offer gets cash-only COD shipment
in continental USA. Please reply *ONLY* in private email and
NOT to the SIG.

<n8mwz@amsat.org> (preferred) or
N8MWZ @ KB8GNF.#NW0H.OH.USA or
Bob Hartman @ 1:234/16 Fidonet

```
////////////////////////////////////  
//// Bob Hartman, N8MWZ           Grid Square EN70      ///  
//// Lima, Ohio                   40 45N, 084 06W      ///  
//// <n8mwz@amsat.org>             Member ARRL, AMSAT, &  ///  
//// VHF, UHF, OSCAR 13 {soon}    TAWG #0H89          ///  
////////////////////////////////////
```

209. Re: [APRSSIG:4326]

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 9 Nov 1995 18:20:27 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.951109181904.4263C-100000@greatlakes>
Rendered body type: text/plain

The U-II outputs 14 ascii HEX characters. BUT you need a -v pull down resistor if you are going to look at it with a scope or hook it to a serial port... The Hex values are wind speed and direction, temperature and then two 4 hex byte rain counters...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

On Thu, 9 Nov 1995, Paul Moller wrote:

> I have been seeing some messages regarding the Peet Ultimeter II. Are people
> using the Peet software to get data out of the U II? I do not have the s/w
> but have looked at the computer interface connector with a scope and find
> only low levels present with data that does not appear to be in ASCII
> format. Does anybody have any additional info about this?
>
> Paul, WD9ABE
>
>

210. A problem with APRSSIG ??

From: Gordon Fuller <gfuller@netcom.com>
Date: Thu, 9 Nov 1995 15:39:44 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9511091509.A21783-0100000@netcom8>
Rendered body type: text/plain

Is there a problem with the subscription list at APRSSIG ? I fell off the list last week, re-subscribed and got two day's sigs, then it appears that I am off the list again. Probably won't see the answer unless it slips in on one of the days that I ON the list. hi Gordy WB6OVH.... ..

gfuller@netcom.com

211. Re: [APRSSIG:4328] Re: Delorme Street Atlas w/APRS???

From: quarry@q.continuum.net (Chip Griffin)
Date: Thu, 9 Nov 1995 18:58:31 -0500
To: aprssig@tapr.org
Message-ID: <v01530501acc8451cac26@[199.0.52.72]>
Rendered body type: text/plain

At 12:04 11/9/95, Keith Sproul wrote:

> >Can you use Delorme Street Atlas with (Mac)APRS?

> Sort-of..
>
> We have the ability to load in PICT maps, this was announced awhile back, and
> you can save PICT (Screen dumps) from Delorme, then you have to manually add
> the lat/lon boundaries to the file..
> [...]
> Delorme's data itself is fully protected by encryption/whatever, and they
> aren't interested in giving that information out.. So we cannot use the data
> on the CD itself..

This may only sound partially beneficial, but it will be TREMENDOUS when it is fully implemented. Imagine, being able to just use StreetAtlas to select the map you need for a special event, save it as a PICT file, add the necessary lat/lon boundary info, and away you go with fairly high detail (read "pretty") maps especially great for showing the public what we can do (also great for showing street level detail without exceeding point limits).

I am excited about getting my hands on that (let me know if you need a beta tester Keith, hihi).

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (860-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@nlokk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

http://q.continuum.net/~quarry/

212. What is aprs

From: "Larry E. Vaughn" <lvaughn@cello.gina.calstate.edu>
Date: Thu, 9 Nov 1995 19:26:44
To: aprssig@tapr.org
Message-ID: <199511100328.TAA01140@cello.gina.calstate.edu>
Rendered body type: text/plain

This may sound like a foolish question...What exactly is APRS? I have been in to packet for the past three years, but have no idea what this 'new mode???' is, how it works, or how to get involved with it. I live in Downey, just south of Los Angeles and would really like some info, or a suggestion on where to get more info.
Thanks...Larry, kd6nzw

Larry E. Vaughn

Internet: lvaughn@cello.gina.calstate.edu
AMPRNET: kd6nzw@jpl-gw.w6vio.ampr.org
Packet: kd6nzw@w6vio.#soca.ca.usa.na

213. APRS via Voice Repeaters... Anyone done it yet?

From: n2czf@gate.net
Date: Thu, 9 Nov 1995 23:02:21 -0500
To: aprssig@tapr.org
Message-ID: <199511100402.XAA10705@tequesta.gate.net>
Rendered body type: text/plain

Well I have finally put together my UHF repeater after a few months of gathering equipment. I would like to hear from anyone who has actually set up their repeater for APRS operations with a TNC "on-board". I have already done the packets thru the repeater in conventional mode but now it is time for something diffent!

I have thought of a TNC with a regenerative board installed at the site and also of a TNC with it's RX connected to the 440 RPT and TX on 145.79 so that I can TX from the car locally to the rprr (poor coverage in my home area with our WIDE) and still have everyone on VHF see me. A mag mount on the repeater inside of the building (220ft) with 5W should make the digi with no problems. If I go this way I guess the smart thing to do would be to also connect the 145.79 audio to the TNC so DCD operation can be maintained (to avoid collisions) but I DO NOT want .79 transmissions repeated over my 440 repeater.

Any ideas so I do not need to re-invent the wheel ???

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

214. KA4OPZ-7 Air Mobile FL to Boston 11/10

From: n2czf@gate.net
Date: Thu, 9 Nov 1995 23:14:17 -0500
To: aprssig@tapr.org
Message-ID: <199511100414.XAA53626@tequesta.gate.net>
Rendered body type: text/plain

Just received word on my message screen that Carl KA4OPZ will be leaving South Florida for Boston at 10:30am EST on Friday the 10th as KA4OPZ-7.

Keep an eye out for him, and if you have a GATE in your area and he is not going via a UNPROTO with GATE in it please UPLINK him for everyone else to see. I am not sure on his route (little notice) or what he will use as a radio but I do know that he does have a KPC-3 so he may have various strings for his data including WIDE,WIDE,WIDE RELAY,WIDE,WIDE and hopefully something with GATE in it.

I am also not sure if he will have a PC with him or not so do not be surprised if he does not ACK your messages, I do not even know if he will have a co-pilot. This is a private plane, no fancy jet so if he does come thru your area he should be in range for a while at that speed.

I will update this information if I receive any more from the guys "down south".

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

215. Re: [APRSSIG:4334] What is aprs

From: jkeck@smartlink.net (james keck)
Date: Thu, 09 Nov 1995 20:43:56 -0800

To: aprssig@tapr.org
Message-ID: <199511100445.UAA26198@warp10.smartlink.net>
Rendered body type: text/plain

Larry,

>would really like some info, or a suggestion on where to get more info.
>Thanks...Larry, kd6nzw

I will contact you direct with the info...

73..Jim

216. Re: [APRSSIG:4307] GPS PCBoard

From: edwardwr@interaccess.com (Edward W. Rogers)
Date: Fri, 10 Nov 1995 11:06:02 -0600
To: aprssig@tapr.org
Message-ID: <199511101706.LAA00724@thymaster.interaccess.com>
Rendered body type: text/plain

>
>Someone on the SIG posted a message, sometime ago, that mentioned a small
>printed
>circuit board that fit inside a DB-9 shell that I thought was similar to the
>HSP/SPM
>circuit described by WB4APR in the docs.
>
>It was available from FAR Circuits in Dundee IL at a cost of \$3 + \$1.50
>shipping. I sent
>for and received one. It is not what I expected as it looks like it only
>holds a couple
>of diodes and some resistors. The circuit I was expecting had a bunch of
>diodes, some
>resistors, capacitors, and a couple of 2N2222's. APRS controlled the
>switching between
>the GPS receiver and the TNC. I was going to build this and thought the pc
>board would
>make it neater than a soldered glob on vector board!
>
>Would the person who originally posted the info please describe what this pc
>board
>does... \$4.50 won't break my bank (grin), but I just want to know what I
>bought!
>
>Thanks so much for reading this... sorry for the bandwidth!
>73 de Boyd W2HOB@aol.com
>

Hi Boyd,
Thats the layout as described in GPS.TXT in the APRS docs. If you look at
the diagram for Bob's layout, not the PacCom, you will see where the
components go.
It has the pinouts for the xsisters and other stuff and remember since it
was built to go inside of a DB9 use both sides of it for installing parts.
If you need a hand or have a question get back to me.
73
de Ed
N9LCI>
>

217. Re: [APRSSIG:4312] Re: garmin.exe gardown6.exe

From: barrettd@crpl.cedar-rapids.lib.ia.us
Date: Fri, 10 Nov 1995 13:36:47 -0600
To: aprssig@tapr.org
Message-ID: <199511101936.NAA09351@sys1.tapr.org>
Rendered body type: text/plain

At 12:45 PM 95-11-8 -0600, you wrote:
>HI RON, THANKS FOR ANSWERING MY MAIL. IS THERE ANY PROGRAM AVAILABLE THAT
>WILL TAKE THE PLACE OF THESE FILES? IF SO WHERE ARE THEY AND DO THEY WORK.
>I AM NEW TO THIS AND JUST GETTING THINGS HOOKED UP. ALSO WHAT KIND OF TNC
>IS A GOOD ONE TO USE THAT WILL INTERFACE THE GPS AND COMPUTER? THANK'S
>
>73'S N30BQ
>MARLEY@LU.LINCOLN.EDU
>
>

I'm the culprit that originally uploaded those and deleted them when told
they were corrupt. I will be reloading working files (i hope) I've just been
real busy, which explains the delay.

218. No Support now from USGS for DLG files ??

From: n2czf@gate.net
Date: Fri, 10 Nov 1995 23:02:39 -0500
To: aprssig@tapr.org
Message-ID: <199511110402.XAA32380@tequesta.gate.net>
Rendered body type: text/plain

I have read in the past week or so that the USGS was limiting some of the DLG file support available via Internet. I had some time on my hands and decided to give getting a file a try for my area and found that I could access NOTHING!

Are there just some server problems or have others had the same problem?? I tried to FTP, I tried to DL via the WWW page but no luck. I get via the web the file is no longer available and via FTP I get no access except for a message that they are under changes and try on Monday. Does any one else have further information? Gerry....??

Please try to respond directly, I have only seen 2 sig messages in the past 2 days and have tried to fix the problem. I got dropped for no reason and then found that I was still showing as subscribed, but no mail was received. I unsubscribed and re-subscribed and got a couple of messages. It has now been 4-5 hours and I have seen no mail, very unusual so I am guessing there is mail but I am just not receiving it. I have just about given up with the listproc since I am spending more time "fixing" than reading mail!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

219. TEST: Ignore message

From: n2czf@gate.net
Date: Fri, 10 Nov 1995 23:04:25 -0500
To: aprssig@tapr.org
Message-ID: <199511110404.XAA63072@tequesta.gate.net>
Rendered body type: text/plain

This is just a test to see if I am receiving sig mail
Sorry for the trouble!
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

220. 100K map sizes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 10 Nov 1995 23:38:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951110233005.9255A-100000@greatlakes>
Rendered body type: text/plain

As an independent data point, I just digitized a map of Maracaibo Venezuela and found that I could not make a map bigger than about 1.5 mile range and stay within the 3K number of points.

This sounds like the same number of points that people are getting from the MKMAPHK program from the CD ROM for a similar high density area.

This is good news to me. It means that the MKMAPHK program is drawing the map without WASTING a lot of points. When I use a digitizer, I am making the map about as effeciently as you can get, as far as conservation of the number of points used...

So, GO FOR IT! Start cranking out those 100K maps...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

221. Re: [APRSSIG:4342] 100K map sizes

From: ke4eer@ro.com (William Nolle)
Date: Sat, 11 Nov 1995 00:21:37
To: aprssig@tapr.org
Message-ID: <199511110727.BAA28163@sh1.ro.com>
Rendered body type: text/plain

I am, I am Bob since the MKMAPHK came out i have made well over 140 maps i just send you a disk with ALMAPS01.ZIP but already have a ALRAFT01.ZIP so yes the program does do a good job of keeping a map right at the 3000

point mark it will either be very close or may go over just a little but can always be trimmed to get it down. Right now i'm at 157 maps. By the way the City and Town coordince list is working great, saving a lot of time!. So guys go at it there's no reason not to have good maps now, but man do they start growing and taking lot's of space, my 157 maps take over 3 meg unzipped.

Go all you mapmakers, Alabama is getting pretty well covered Hi

Bill KE4EER
ke4eer@ro.com

>As an independent data point, I just digitized a map of Maracaibo
>Venezuela and found that I could not make a map bigger than about 1.5
>mile range and stay within the 3K number of points.
>
>This sounds like the same number of points that people are getting from
>the MKMAPHK program from the CD ROM for a similar high density area.
>
>This is good news to me. It means that the MKMAPHK program is drawing
>the map without WASTING a lot of points. When I use a digitizer, I am
>making the map about as effeciently as you can get, as far as
>conservation of the number of points used...
>
>So, GO FOR IT! Start cranking out those 100K maps...
>
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
>

222. Re: [APRSSIG:4341] TEST: Ignore message

From: jkerns@usit.net (jim kerns)
Date: Sat, 11 Nov 1995 08:05:30 -0500
To: aprssig@tapr.org
Message-ID: <199511111259.HAA27819@use.usit.net>
Rendered body type: text/plain

>This is just a test to see if I am receiving sig mail
>Sorry for the trouble!
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
Hello Rich. Long time no talk. When I got back from Oregon trip last month, I saw a new 2 call on APRS from Jupiter Springs, Fl. I think it was an advanced or extra, who was that? I thought you had upgraded or changed your call, but then I saw you call on later.????
Hope all is well down there. 73 Jim, N4PUQ (nowhere near the great lakes,Hi.)
>
>
>
>

223. Re: [APRSSIG:4344] Re: Going mobile

From: jerdptro@xnet.com (Jerry)
Date: Fri, 10 Nov 1995 09:25:32 -0600
To: aprssig@tapr.org
Message-ID: <199511111519.JAA07323@flood.xnet.com>
Rendered body type: text/plain

Howdy from snowy chicagoland.

I am going mobile today and will be porting thru a gate in our area. I would appreciate reports received via the 30 meter gate. I am trying to determine if the gate in our area is efficient.

Thank you
jerry n9vhw
date is nov 11 sat

224. 100K maps LOOK GOOD

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 11 Nov 1995 11:19:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951111110613.10355C-100000@greatlakes>
Rendered body type: text/plain

Since I loaned out my only 100K CD to KE4XF to write MKMAPHK, I havnet been able to test it, but today I got a disk in the mail from KE4EER who

has prepared a 150 map distro for ALABAMA. It LOOKS fantastic!

For Birmingham, he gridded the city into 2 minute grids. Then used MKMAPHK to make 1 mile maps. Then listed those maps in MAPLIST with a 1.1 mile range so they will pop up at the 1 mile range reliably. He found that asking for 1 mile maps brought the number of points in at about 2950 points or less every time.

On some of his maps, I ran MAPFIX alt-SCRUNCH with a slope of 1.2 and removed about 200 points per map... DO NOT RUN ANYTHING BIGGER than 1.2. 1.3 only picked up about 5 additional, and 1.4 only got a few more too. NOT worth it.

Of Bills hundreds of maps, probably only 10% of them were right at the 3000 point limit, MOST of them were somewhat less, depending on the neighborhood.

This makes me want to suggest that you still make maps on a 2 MINUTE grid, but ask MKMAPHK to MAKE 1.1 or even 1.2 mile range maps. (I assume that it will make maps of a fractional range). This will give the maps a little bit of overlap and MOST of the maps will still be below 2999 points. For those few that are too many points, re-do them at 1 mile..

This is fantastic. APRS can now DO IT, ANYWHERE IN THE USA!

THanks to Bill and to Jack Cavanaugh who wrote MKMAPHK!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

225. California maps at TAPR

From: KSwaggart@aol.com
Date: Sat, 11 Nov 1995 12:48:05 -0500
To: aprssig@tapr.org
Message-ID: <951111124800_19415136@emout04.mail.aol.com>
Rendered body type: text/plain

CAMAPS04.zip has been uploaded to FTP TAPR.ORG in the TAPR/SIG/APRS/UPLOADS directory.

This update includes some 1 mile neighborhood maps in the San Francisco area plus some larger scale maps of areas in Northern California previously not covered well.

Copy CAMAPS04.zip into your toplevel APRS directory then use the PKUNZIP -d command to unzip it. This will place the new MAPLIST.CA into the APRS directory and the maps into the \MAPS subdirectory.

Since this is my first FTP try, will the first person who successfully downloads and unzips CAMAPS04.zip from TAPR, please let me know!

73, Ken, W7KKE
kswaggart@aol.com

226. Detailed maps

From: ke4eer@RO.COM (William Nolle)
Date: Sat, 11 Nov 1995 12:38:04
To: aprssig@tapr.org
Message-ID: <199511111944.NAA09492@sh1.ro.com>
Rendered body type: text/plain

Thanks for the report Bob. Just thinking of a problem that developed this morning when adding Phenix Alabama to my maplist. There's a limmit of 159 maps if i'm not mistaken. Is this for individual state maplists also. Because this morning i reached that lmmiit and on my first try it gave me an error message that i had reached that limmit yet i have 166 maps now and the second time i ran APRS74 it worked without a hitch. This may be a problem tough since i'm still planning to add additional maps Hi. Ok Bob i will take your advice and see what i can do with it. I just completed ALAFTR01.ZIP with actually 177 maps in it. I would like to see MKMAPSHK not crash if you attempt to make a map using -6 or -8 because that map could be trimmed or scrunched. It does have a few bugs but all in all it works great.

Bill KE4EER (The little Old Alabama Mapmaker Hi)
ke4eer@ro.com

227. Re: [APRSSIG:4346] 100K maps LOOK GOOD

From: n8mwz@alpha.wcoil.com (Bob Hartman)
Date: Sat, 11 Nov 1995 15:23:25 -0500
To: aprssig@tapr.org, "Bob Bruninga" <bruninga@nadn.navy.mil>
Message-ID: <199511112023.PAA25376@alpha.wcoil.com>
Rendered body type: text/plain

> today I got a disk in the mail from KE4EER who
> has prepared a 150 map distro for ALABAMA. It LOOKS fantastic!
>
>For Birmingham, he gridded the city into 2 minute grids. Then used
>MKMAPHK to make 1 mile maps. Then listed those maps in MAPLIST with a
>1.1 mile range so they will pop up at the 1 mile range reliably.
>He found that asking for 1 mile maps brought the number of points in
>at about 2950 points or less every time.

>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

Is the 3000 point limit a limitation of Qbasic or a memory concern or what?
Curious minds want to know...

DE N8MWZ in Lima OH. (about 75 miles from one of the Greatlakes)

```
////////////////////////////////////  
//// Bob Hartman, N8MWZ           Grid Square EN70           ////  
//// Lima, Ohio                   40 45N, 084 06W           ////  
//// <n8mwz@amsat.org>             Member ARRL, AMSAT, &      ////  
//// VHF, UHF, OSCAR 13 {soon}    TAWG #0H89               ////  
////////////////////////////////////
```

228. 2999 point limit

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 11 Nov 1995 19:38:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951111193329.11339I-100000@greatlakes>
Rendered body type: text/plain

On Sat, 11 Nov 1995, Bob Hartman wrote:

> Is the 3000 point limit a limitation of Qbasic or a memory concern or what?
> Curious minds want to know...

APRS keeps the LAST 4 maps in RAM. this means 4 x 3000 points.

That approaches a full system memory wise...

I could go to fewer maps in memory, but then it would take longer to jump around while waiting for disk loads. More points on a screen are just too busy to be of much value. As you ZOOM in, and want more detail, then you can always have a smaller map..

So the answer is that it is arbitrary. But no matter what limit I set, we will all want more, hi hi...

Remember, I want APRS to run on an 8088 with 640K. In that case 3000 is the maximum...

229. 100K Maps

From: Samuel Guccione <sguccione@outland.dtcc.edu>
Date: Sat, 11 Nov 1995 20:23:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.951111201521.16307A-100000@outland.dtcc.edu>
Rendered body type: text/plain

I have read the messages about making maps with MKMAPHK1. I gave it a try by downloading some DLG maps from the usgs, using UNBLOCK as noted and then running MKHAPHK1. I get the message Oops none of the maps ... have data points within (the radius I set).

OK can someone advise me as what I am doing stupidly. Maybe I can not use the downloaded DLG maps from usgs (yes I set the ftp to bin before downloading them). Am I using UNBLOCK incorrectly? Seems to be pretty fool proof (of course I must be a fool to send this message out). Did I do something incorrectly when I gave MKMAPHK1 its input? The directory was correctly inputted (I did this about 50 times over the last week or so). I think I got the correct lat/lon. Actually I used the lat/longs in the maps. Is this not correct? I tried all kinds of radii, both + and 1. From less than 1 to over 16 (found out that is the limit).

I want to make some maps so I can contribute to the effort. Would someone reply in private with suggestions on what I am doing wrong.

Thats enough bandwidth usage for me.

Sam K3BY

230. Northern Illinois APRS Network (NIAN) WEB Page

From: edwardwr@interaccess.com (Edward W. Rogers)
Date: Sat, 11 Nov 1995 22:45:01 -0600
To: aprssig@tapr.org
Message-ID: <199511120445.WAA16553@thymaster.interaccess.com>
Rendered body type: text/plain

Dave KA9NHL has put NIAN into cyberspace.
Members of this sig are invited to check us out at:
<http://tbcnet.com/~davidc/aprs.html>
comments anyone
Ed
N9LCI

231. Detailed Maps

From: ke4eer@ro.com (William Nolle)
Date: Mon, 13 Nov 1995 04:58:10
To: aprssig@tapr.org
Message-ID: <199511131205.GAA28950@sh1.ro.com>
Rendered body type: text/plain

I have just successfully uploaded my ALMAPS03.ZIP onto the tapr system it's in the /tapr/SIG/aprssig/upload/backups/ directory. It didn't allow me to upload in the upload directory i guess it takes a password.?. If your interested in downloading this file make sure you also get the README.ALA there are 173 maps in this new distro and the file is 981.480K. I took Bobs suggestion and scrunched all the maps at 1.2, it did save some points and made the total filesize a little less also. This was my first FTP upload. Let me know what you think of the way Alabama is mapped.

BILL KE4EER
ke4eer@ro.com

232. Alabama Maps

From: ke4eer@ro.com (William Nolle)
Date: Mon, 13 Nov 1995 06:30:04
To: aprssig@tapr.org
Message-ID: <199511131337.HAA30283@sh1.ro.com>
Rendered body type: text/plain

Well disregard the message on where to look for the Alabama maps. I finally figured out how to do this FTP thing right hi. The file ALMAPS03.ZIP and the README.ALA are both in the regular UPLOAD directory with all the rest of the APRS files. The only thing i can't figure out why it gave a Sunday 1994 upload when in fact it's Monday 1995, and no it's not my system clock cause i set it daily via the atomic clock in Washington i think it is. In any case the file is their for you to download if you wish. The file has 173 detailed maps fo Alabama, included are a couple for Nashville,TN and a couple for Amory and Tupelo,MS. This the latest maps i have done from CD-Rom. These where all made using both MKMAPKH.EXE and MAPFIX16.EXE Thanks Bob and Jack for the software, it sures makes it a pleasure to make maps now.

BILL KE4EER
ke4eer@ro.com

233. RE: [APRSSIG:4351] 100K Maps

From: "Richard L. Holbert" <rholtbert@manny.rcinet.com>
Date: Mon, 13 Nov 1995 08:46:23
To: aprssig@tapr.org
Message-ID: <199511131346.IAA01770@manny.rcinet.com>
Rendered body type: text/plain

Sam,

I'm sending this to the rest of the group so we can all learn.

I see no mention of decompressing the files you downloaded from USGS. Are you using GZIP -d to decompress the GZ files? All those DLG files have been compressed with GNU Zip. GZIP can be found on the TAPR FTP server in the APRS SIG UPLOAD dir.

Hope this helps!

Rick, KB8DNR

On Sat, 11 Nov 1995 19:39:51 -0600,
aprssig@tapr.org wrote...

>
>I have read the messages about making maps with MKMAPHK1. I gave it a
>try by downloading some DLG maps from the usgs, using UNBLOCK as noted
>and then running MKHAPHK1. I get the message Oops none of the maps ...
>have data points within (the radius I set).
>
>OK can someone advise me as what I am doing stupidly. Maybe I can not
>use the downloaded DLG maps from usgs (yes I set the ftp to bin before
>downloading them). Am I using UNBLOCK incorrectly? Seems to be pretty
>fool proof (of course I must be a fool to send this message out). Did I
>do something incorrectly when I gave MKMAPHK1 its input? The directory
>was correctly inputted (I did this about 50 times over the last week or
>so). I think I got the correct lat/lon. Actually I used the lat/longs
>in the maps. Is this not correct? I tried all kinds of radii, both +
>and 1. From less than 1 to over 16 (found out that is the limit).
>
>I want to make some maps so I can contribute to the effort. Would
>someone reply in private with suggestions on what I am doing wrong.
>
>Thats enough bandwidth usage for me.
>
>Sam K3BY
>
>

Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

234. Re: [APRSSIG:4354] Alabama Maps

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 13 Nov 1995 08:26:19 -0600
To: aprssig@tapr.org
Message-ID: <199511131426.IAA16903@mailhost.onramp.net>
Rendered body type: text/plain

Good work on the maps, Bill!

Now, Bill, your next mission should you choose to accept it, is to write a FAQ file with *complete* details about how to create maps. Bits and pieces of the procedure have been discussed in past threads but it would really help to have it condensed into one file. How about it Bill? PleasePleasePleasePleasePlease!

Larry Griffin <largriff@onramp.net>

On Mon, 13 Nov 1995, ke4eer@ro.com (William Nolle) wrote:
>... The file ALMAPS03.ZIP and the
>README.ALA are both in the regular UPLOAD directory with all the rest of the
>APRS files. The file has 173 detailed maps
>fo Alabama, included are a couple for Nashville,TN and a couple for Amory
>and Tupelo,MS. This the latest maps i have done from CD-Rom. These where
>all made using both MKMAPKH.EXE and MAPFIX16.EXE Thanks Bob and
>Jack for the software, it sures makes it a pleasure to make maps now.
>
>BILL KE4EER
>ke4eer@ro.com

235. Re: [APRSSIG:4356] Re: Alabama Maps

From: dwetzel@acs.uswest.com
Date: Mon, 13 Nov 1995 07:49:50 -0600
To: aprssig@tapr.org
Message-ID: <0a751f00@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Good work on the maps, Bill!

Now, Bill, your next mission should you choose to accept it, is to write a FAQ file with *complete* details about how to create maps. Bits and pieces of the procedure have been discussed in past threads but it would really help to have it condensed into one file. How about it Bill? PleasePleasePleasePleasePlease!

----->

A hearty second from UTAH! After two weeks of playing with mapmaking (more or less successfully) a real FAQ file would sure help newcomers. So would getting usgs to put the 100k DLGs back again. Just when I got going well, they've disappeared.....

Doug
KC7CO
dwetzel@acs.uswest.com

236. Re: [APRSSIG:4356] Re: Alabama Maps

From: dkaplan@pionet.net (Dave Kaplan)
Date: Mon, 13 Nov 1995 09:02:11 -0600
To: aprssig@tapr.org
Message-ID: <9511131502.AA15197@ELWOOD.pionet.net>
Rendered body type: text/plain

>Good work on the maps, Bill!

>

>Now, Bill, your next mission should you choose to accept it, is to write a FAQ
>file with *complete* details about how to create maps. Bits and pieces of the
^^

>procedure have been discussed in past threads but it would really help to have
>it condensed into one file. How about it Bill?
PleasePleasePleasePleasePlease!

Oh YES PLEASE PLEASE PLEASE IT would be such a help PLEASE PLEASE PLEASE

Dave

237. Re: [APRSSIG:4355] RE: 100K Maps

From: Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Mon, 13 Nov 1995 10:13:37 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.951113100846.23177A-100000@outland.dtcc.edu>
Rendered body type: text/plain

On Mon, 13 Nov 1995, Richard L. Holbert wrote:

> I'm sending this to the rest of the group so we can all learn.

>

> I see no mention of decompressing the files you downloaded from USGS. Are
> you using GZIP -d to decompress the GZ files? All those DLG files have
> been compressed with GNU Zip. GZIP can be found on the TAPR FTP server in
> the APRS SIG UPLOAD dir.

>

> Rick, KB8DNR

>

Rick, thanks for the reply. Yes I did use GZIP -d to decompress. I followed the directions as outlined in previous posts here. I have not successfully created a map todote. I think the DLG's on usgs are not the same as on the CD-ROM or the method of extraction changes. Perhaps someone who has done this successfully can give the steps again with some detail.

BTW I use the DLG's from the boundaries directory. This may not be correct. Could be one of the problems. I will try DLG's from the three other areas over this week.

I am not sure about the lat / lon. I find that my DLG's define a lat lon within the file itself (its a text file). I have used the center of those four lat lon.

Let me know what you find out.

Sam K3BY (the wanna be Delaware map maker)

238. RE: [APRSSIG:4359] RE: 100K Maps

From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Date: Mon, 13 Nov 1995 10:44:42
To: aprssig@tapr.org
Message-ID: <199511131545.KAA16816@manny.rcinet.com>
Rendered body type: text/plain

OK, try using hydrography and transportation files only.

On Mon, 13 Nov 1995 09:31:26 -0600,
aprssig@tapr.org wrote...

>
>Rick, thanks for the reply. Yes I did use GZIP -d to decompress. I
>followed the directions as outlined in previous posts here. I have not
>successfully created a map todate. I think the DLG's on usgs are not the
>same as on the CD-ROM or the method of extraction changes. Perhaps
>someone who has done this successfully can give the steps again with some
>detail.
>
>BTW I use the DLG's from the boundaries directory. This may not be
>correct. Could be one of the problems. I will try DLG's from the three
>other areas over this week.
>
>I am not sure about the lat / lon. I find that my DLG's define a lat lon
>within the file itself (its a text file). I have used the center of
>those four lat lon.
>
>Let me know what you find out.
>
>Sam K3BY (the wanna be Delaware map maker)
>
>

Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

239. Re: [APRSSIG:4359] RE: 100K Maps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 13 Nov 1995 10:07:45 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511131607.KAA03736@solar.cs.tamu.edu>
Rendered body type: text/plain

Make sure you download the .opt.gz files. That's a real "gotcha" if you're
not unix-friendly. When I download them, I do a name change so that

AU2_RDF_03.opt.gz becomes
au2rdf03.gz

and unzip them from there. Unblock will then turn them into appropriate
files.

73, gerry

--
Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
* to astronauts, and smile

240. Re: [APRSSIG:4361] RE: 100K Maps

From: Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Mon, 13 Nov 1995 11:31:52 -0500 (EST)
To: Gerald J Creager <gerry@cs.tamu.edu>
Cc: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.951113113044.24472A-100000@outland.dtcc.edu>
Rendered body type: text/plain

On Mon, 13 Nov 1995, Gerald J Creager wrote:

> Make sure you download the .opt.gz files. That's a real "gotcha" if you're
> not unix-friendly. When I download them, I do a name change so that
>
> AU2_RDF_03.opt.gz becomes
> au2rdf03.gz
>
> and unzip them from there. Unblock will then turn them into appropriate
> files.
>

Yep did that ok. That is not the problem in my situation. Something
else is happening. Am trying the hydrology and transportation DLG's
now. Will report if am successful.

Sam Guccione

241. 100K maps

From: ke4eer@ro.com (William Nolle)
 Date: Mon, 13 Nov 1995 10:58:37
 To: aprssig@tapr.org
 Message-ID: <199511131805.MAA05911@sh1.ro.com>
 Rendered body type: text/plain

Just seen a message from Gerry to make sure you download the OPT format only. Although i have the CD-Rom i received several messages this morning on the procedure for making maps from the USGS system. Well i downloaded a file (In the OPT format) and then unzipped the file using gzip wich by the way would not run on my system till i disabled EMM. I then unblocked the file. I picked Downtown Huntsville,AL and made a 1 mile map. Worked great. The map came out just under 3000 points and when Scrunched at 1.2 came down to around 2750. So it does work if you pick the right files. And by the way USGS is back online. If more help is needed drop me a line. And yes guys i will make a complete FAQ file and post it for those that asked me to do so with all the messages i got thsi morning. Great to see all the interest in making detailed maps for your states.

Bill KE4EER
 ke4eer@ro.com

242. 100K Maps

From: ke4eer@ro.com (William Nolle)
 Date: Mon, 13 Nov 1995 12:33:10
 To: aprssig@tapr.org
 Message-ID: <199511131940.NAA09189@sh1.ro.com>
 Rendered body type: text/plain

Well i will do the best i can at telling you how i make the 100K maps from my CD-Rom. Actually it's the same for the USGS files except there are a couple of more steps (Unzipping and Unblocking) with those files. I will use TROY Alabama as an example since that's the one i just added to my list of maps.

I suggest you download a file i mentioned before name PLACES.ZIP from Tiger at.. <http://tiger.census.gov/places.html>
 It gives all the City and Town coordinances for the USA.

Ok i did that and of course the way they show the data is in a form not suitable for APRS use so therefore, i ran into this problem and Bob helped me out on that. TROY,AL shows on the list as +34598597 -087089825 discount the +/- since all that tells you is East or West i believe. Now take the last 6 digits and multiply it by 60 (Example) .598597 = 35.91582 then ad the 34 giving you 34,35.91582 \, do the same for both Lon and Lat. This will give you the exact center of Troy,AL (Rest assured it does) that's what makes this file so great to have. Now it's time to start making the map. First AGAIN make sure that you have a directory with only the CD-Rom files in that directory or your system may crash. Start MKMAPHK.exe and when asked enter the path to the CD files (I used E:\TROY

Now the software will aske the mapname you want to create (Don't add the MAP extension) the software will do this. As an example i always use ALTROY in this case for the main less detailed map. Hit return and the program will ask for the coordinance. Enter 31,48.24708 (Hit return)

Now enter 85,58.08978 (Hit return) Don't forget (it's a comma after the first two digits NOT a period like in the second figuer). The reason i tell you this i have made this mistake many times. Now the program will ask what detail you want in your map, for the TROY less detailed map i selected -5 this depends a whole lot on the town size. for a small town you may get away with doing a -10 but no more then that or the program will crash anyway. Anyway i chose -5 the Minus is to indicate less detail. Now hit return and your map will be build right before you eyes. Now in many cases after it's done and you hit the return key like you map will look a mess and the roads are totally scrambled. Don't dispair this happens when there's to much data in the map. just hit return again and do this. The program will have produced 3 files.

- 1) called TROY.MAP
- 2) called TROY.DAT
- 3) called TEMP.DAT

Delete the file named TROY.MAP (Go ahead it's no good anyway)

Rename the file TROY.DAT to TROY.MAP, now start Mapfix16.exe or one of the other versions. Bring in TROY.MAP and in many many cases it's still below the 3000 point mark, but if not just do a scrunch at 1.2 to bring the points down. If after this there are still to many point's which i doubt then you will have to do a ALT-T and trim the map. Also i have to warn you many times when you pick a map to large for MKMAPHK it will crash. Also in 100% of the time using MKMAPHK it will give an error message when the map is completed wether the map is good or bad just disregard that message!. Now

that you have made a couple of great looking maps you need to check the center coordiance of the maps by using a text editor and you will see looking down 5 or 6 lines a couple of figures (In this case for the TROY.MAP it is

31.8041
85.9682
5

These are the figures you must enter into you MAPLIST.XX in the following format

ALTROY.MAP,31.8041,85.9682,5. Test ay follow here.

The 5 on the end is of course the range, i normally would make that number 5.1 to make sure the map comes up when zoomed in on it.

I hope this will answer most of the questions on making detailed maps using the MKMAPHK.EXE and Bob's MAPFIX16>EXE if i missed something i'm sorry but a writer i'm not, but am willing to help and answer anything else i may have missed. Happy mapmaking APRS users and let's see if we can cover the USA with detailed maps HI HI. I am well on the way here in Alabama.

Bill KE4EER
ke4eer@ro.com

243. TX power on vhf

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 13 Nov 1995 12:54:27 -0600
To: aprssig@tapr.org
Message-ID: <199511131854.MAA21013@OAMPC10.csg.mot.com>
Rendered body type: text/plain

I am getting confused....I have seen some discussions lately on transmit power on 2 meters where people are talking about power levels much in excess of 5 watts. I thought that if everybody stays at 5 watts there would be a good balance of RX to TX on all stations and the "system" would be "balanced". OK maybe WIDES should have good antenna height, but excessive power??? What are peoples thoughts?

Paul, WD9ABE

244. 100K maps

From: ke4eer@ro.com (William Nolle)
Date: Mon, 13 Nov 1995 13:13:30
To: aprssig@tapr.org
Message-ID: <199511132020.OAA10729@sh1.ro.com>
Rendered body type: text/plain

Hi guys, i better make another installment on the mapmaking FAQ file. You know it's bad when you get old and start forgetting thigs Hi.

I forgot to explain on the finer Smaller more detailed maps that came after the ALTROY.MAP. Well here it goes, In this case i called the smaller map ALTROY2.MAP, this way i know when palcing them in the MAPLIST.XX i know that the ALTRO2.MAP goes after the larger ALTROY.MAP.

To make the more detailed center of town map, use the same coordiance as you did for the ALTROY.MAP and follow the same rules exept when you get to the point where MKMAKHK.EXE asks you for the amount of detail you want. In a few cases i have done maps 3 levels deep, in that case the second map you will not use a Minus or Plus sign in front of the range. Lets say your going to make a -10 range map you may want to make another at 6 or 4 then enter 6 or 4 only. Then when you get down to the smaller maps you will be using the +1 or +1.5 I have found that it's not much use trying to make a very detailed map over about +1.5 in fact in most cases only the +1 detail level will work. In a City the size of Birmingham,AL you will notice i did the whole City with +1 only. The way i did that one was to make a larger -10 or so then used MAPFIX16.EXE and drew i gridwork over the map and saved it as MAPGRID.MAP. The way i do this is to use the RANGE ALT-R and make the range of the white square that size, i use tgis to draw the gridwork on the map. Then after the gridwork is drawn i moce around the white range square to tell me the coordiance of the top grid of each box drawn, then i do the same for the vertical row, in this way it will give me the coordiance for all squares in the whole grid and i don't have to mark down those figures for each map. This will also give you a good idea of how many maps it's going to take to do that City. Doing these smaller 1 mile maps you will find that in some cases the software (MKMAPHK.EXE will still scramble the map and make a mess out of it, but in alsmost ALL cases when you delete that map file and rename the .DAT file that it will already be under the 3000 point mark. In most all cases if you do a +1 you will always come out with a good map. Even at

this as Bob suggested still do a Scrunch at 1.2 (No more then 1.2)
I hope this will give you the rest of the process Hi. If i didn't make myself clear on drawing the grid over a copy of the first map and how i get the coordinance for the whole griid from that let me know and i will try to clarify the process i use.

Bill KE4EER
ke4eer@ro.com

245. Re: [APRSSIG:4365] TX power on vhf

From: ke4eer@ro.com (William Nolle)
Date: Mon, 13 Nov 1995 14:08:12
To: aprssig@tapr.org
Message-ID: <199511132115.PAA12476@sh1.ro.com>
Rendered body type: text/plain

Well Paul that's where the EGO digi comes into play. We have a digi with a PHG that the circle just toughes my QTH and i should be able to hit him with an HT, but in reality i have attempted to hit is with 300+ watts and stacked 13B2's and still could not hit that digi, so this tells me that not all digi's are craeted equil. Now maybe it's just bad out my way but that's rather hard to believe so at times Yes i use power to get to the person or digi i need to get to. How else do you suggest this would be done?.

Bill KE4EER
ke4eer@ro.com

>I am getting confused....I have seen some discussions lately on transmit
>power on 2 meters where people are talking about power levels much in excess
>of 5 watts. I thought that if everybody stays at 5 watts there would be a
>good balance of RX to TX on all stations and the "system" would be
>"balanced". OK maybe WIDES should have good antenna height, but excessive
>power??? What are peoples thoughts?
>
>Paul, WD9ABE
>

246. 100K DLG data

From: dwetzel@acs.uswest.com
Date: Mon, 13 Nov 1995 09:23:38 -0600
To: aprssig@tapr.org
Message-ID: <0a79ab70@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Those of you who have had trouble ftp'ing 100K DLG files recently may be interested in this email response I received from usgs...

Doug
KC7CO

----->

Hi Doug,

>I was disappointed to see the 100K DLG data missing from the edcftp
>server.
We're having problems with our file server right now, but the server should be up and operational soon. We are also transferring the 100K data to a more stable (and faster) system, and this may have an impact on file access over the next week or two. Please try loading the files again at a later time.

We're sorry for the inconvenience. Hopefully we can have all the system problems resolved soon.

Thanks for your patience!

Susan Delaney (delaney@sunl.cr.usgs.gov)

247. Re: [APRSSIG:4364] 100K Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 13 Nov 1995 15:37:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951113152726.27548A-100000@greatlakes>
Rendered body type: text/plain

Of course, you can make the center be anywhere you want bu just moving the cursor there and hitting Alt-C to establish that as the new CENTER.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Mon, 13 Nov 1995 15:40:00 -0600
To: aprssig@tapr.org
Message-ID: <02120d04accd69ff0aaf@[138.87.2.109]>
Rendered body type: text/plain

Larry M. Keeran ISU IS - Data Processing Equip Tech lmkeeran@ilstu.edu
 EC McLean Co-Pres CIRC-CIPRUS, Inc-APRSM-APRS k9orp.ampr.org (44.72.126.97)
 wireless path: k9orp via ILGRD1 k9orp@wb9uus.ampr.org (44.72.123.97)

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 13 Nov 1995 15:55:47 -0600
To: aprssig@tapr.org
Message-ID: <199511132155.PAA23294@OAMPC10.csg.mot.com>
Rendered body type: text/plain

actually desensing its receiver. What you get is an "alligator", all mouth and no ears. It will not hear the low power suburban stations and will thus transmit when they are transmitting, thus causing excessive collisions.

Paul
WD9ABE

250. X1J4

From: dkaplan@pionet.net (Dave Kaplan)
Date: Mon, 13 Nov 1995 16:21:26 -0600
To: aprssig@tapr.org
Message-ID: <9511132221.AA01452@ELWOOD.pionet.net>
Rendered body type: text/plain

Can someone direct me to the node program X1J4. I understand that it works well with APRS. Comments on X1J4 would be appreciated.

251. Re: [APRSSIG:4371] Vhf power

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Mon, 13 Nov 95 16:33:17 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511132224.QAA15659@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

----- REPLY, Original message follows -----

What you get is an "alligator", all mouth and no ears. It will not hear the low power suburban stations and will thus transmit when they are transmitting, thus causing excessive collisions.

Paul
WD9ABE

----- REPLY, End of original message -----

I just found out that there's a STRONG tone carrier at 152.870MHz close by that's really messing up my receiver. That, plus the fact that at the last Northern IL APRS Net meeting we discussed the problem of not being able to hear much (most of those guys are in Chicago) led me to believe that part of our problem is receiver desensitization. So I called AES today to see what they have for intermod/bandpass filters. If that works pretty well, I'll report back.

Barry Leonard
N9VJQ
jleonard@tbcnet.com

252. Re: [APRSSIG:4367] Re: TX power on vhf

From: n2czf@gate.net
Date: Mon, 13 Nov 1995 17:55:50 -0500
To: aprssig@tapr.org
Message-ID: <199511132255.RAA55516@tequesta.gate.net>
Rendered body type: text/plain

As far as power goes I feel that testing and LOCAL experience is the only way to make a good decision. I also feel that what was once a good power level may need to be thought about again as the local WIDE area covered changes due to new WIDE's.

When an area has only 1 WIDE in range of ANYTHING the conservative power level can be a bit more lax than when you have multiple WIDE's that may overlap each other. We can probably never have utopia with WIDE digi's since we will probably never have access to a good site EXACTLY where one is needed so overlap may happen. In this case let's try to be a bit conservative and experiment.

One case that comes to mind is the Orlando Florida area where there are no "official" WIDE's yet. They have a 200ft location and are waiting for crystals but once that is up there are no other digi's within reasonable range to link up with. In this case they could probably start with a higher power level than normal and experiment. Once the system develops and more WIDE's are built in range of Orlando the power level will need to be turned down so that the system can be efficient. In the meantime a high power level will not hurt anyone in that area and give those locals a better chance to link with WIDE's 100 miles away to the West and South East when there is a slight opening, keeping their interest alive. As more and more users come on line there will be better input locally as

to weather the power level used is necessary or if it needs turning down.

The answer to everything is use your brain and nothing is carved in stone, try different approaches and change things as necessary!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

253. Re: [APRSSIG:4359] RE: 100K Maps

From: Barbara Fehner <fehner@cts.com>
Date: Mon, 13 Nov 95 13:26 PST
To: aprssig@tapr.org
Message-ID: <m0tF60C-000V1mC@mailhub.cts.com>
Rendered body type: text/plain

That likely is your problem. None of the map tools available will extract data for boundaries, public lands, or misc. transportation. Mkmaphk1 will not extract stream data either. It has to be brought in from convl00c which takes a very long time. I don't know yet if mkmaphk1 will extract class 9 and 10 roads but I need these for search and rescue maps for parks and National forests along with the streams.

Could someone who knows the mkmaphk1 program and that has the full version of qbasic please make the following mods.

1. Include a menu to choose all or any combination of data types from All the DLG files.
2. Provide a user defined scrunch ratio as in mapfix. 1.1 default?
3. A "do another map" question at the end of the program that saves the DLG path information. I get real tired of typing the path in for each map.

On another note, beware of mkmaphk1 dropping features during the chaining process. It has done this to me several times including dropping an entire coastline. Check very carefully that all the grey lines have been converted to white after the chaining is completed. Any lines that are still grey will be dropped from the map.

73's
Barbara KK6IB
E-Mail: fehner@cts.com

At 09:31 AM 11/13/95 -0600, you wrote:
>
>
>BTW I use the DLG's from the boundaries directory. This may not be
>correct. Could be one of the problems. I will try DLG's from the three
>other areas over this week.
>
>I am not sure about the lat / lon. I find that my DLG's define a lat lon
>within the file itself (its a text file). I have used the center of
>those four lat lon.
>
>Let me know what you find out.
>
>Sam K3BY (the wanna be Delaware map maker)
>

254. Re: [APRSSIG:4375] RE: 100K Maps

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Mon, 13 Nov 1995 19:20:43 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511140120.TAA17795@solar.cs.tamu.edu>
Rendered body type: text/plain

Barbara Fehner sez:

>
> That likely is your problem. None of the map tools available will extract
> data for boundaries, public lands, or misc. transportation. Mkmaphk1 will
> not extract stream data either. It has to be brought in from convl00c which
> takes a very long time. I don't know yet if mkmaphk1 will extract class 9
> and 10 roads but I need these for search and rescue maps for parks and
> National forests along with the streams.

I have seen no indication that it will, but if you use convl00d (I'll make it available sometime tomorrow) it will do a one-step UNBLOCK and CONV process fairly painlessly. Then, you can grab the class 9 & 10 roads into an independent map, and then edit the MKMAPHK1 outputted map and import them. That process adds little time and effort to the entire map-maping process, and

if you really need those roads, it insures you get them.

> Could someone who knows the mkmapkh1 program and that has the full version
> of qbasic please make the following mods.

Unfortunately, this won't be me. I've got my hands full trying to get my cows back in the field, so I'm out of commission on other projects right now. I'm shooting for the Christmas holidays for some coding and some new releases, though.

> 2. Provide a user defined scrunch ratio as in mapfix. 1.1 default?

This would be nice.

> 3. A "do another map" question at the end of the program that saves the DLG
> path information. I get real tired of typing the path in for each map.

And this! Good suggestions.

> On another note, beware of mkmapkh1 dropping features during the chaining
> process. It has done this to me several times including dropping an entire
> coastline. Check very carefully that all the grey lines have been converted
> to white after the chaining is completed. Any lines that are still grey will
> be dropped from the map.

It also takes some liberties with connecting roads at intersections, I've noted. So, I have a very nice road coming straight south, and when mkmapkh1 comes to an intersection in the chaining process, it doesn't take the (visually) logical step of chaining it to the continuation. Nope, it chains and makes the object attached to an east-running or west-running road!

73,

Gerry

--

Gerry Creager N5JXS

gerry@cs.tamu.edu

* SAREX Co-Investigator

* A little radio that lets kids talk

* to astronauts, and smile

255. Re: [APRSSIG:4364] 100K Maps

From: "John B. Leonard" <jleonard@tbcnet.com>

Date: Mon, 13 Nov 95 20:28:03 -0500

To: APRS SIG <aprssig@tapr.org>

Message-ID: <199511140219.UAA17463@tbc2.tbcnet.com>

Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

----- REPLY, Original message follows -----

Now it's time to start making the map. First AGAIN make sure that you have a directory with only the CD-Rom files in that directory or your system may crash.

> Bill KE4EER

> ke4eer@ro.com

----- REPLY, End of original message -----

I hate to admit it, but I was doing it the hard way. Thanks, Bill!

--

Barry Leonard

N9VJQ

DeKalb IL

Packet: N9VJQ@WB9SLE.IL.USA.NOAM

E-MAIL: jleonard@tbcnet.com

EN510W

256. Re: [APRSSIG:4367] Re: TX power on vhf

From: moyers@ibm.net

Date: Mon, 13 Nov 95 22:11:15 +0000

To: aprssig@tapr.org

Message-ID: <9511140708.AA0045@localhost>

Rendered body type: text/plain

> Well Paul that's where the EGO digi comes into play. We have a digi with a
> PHG that the circle just toughes my QTH and i should be able to hit him with
> an HT, but in reality i have attempted to hit is with 300+ watts and stacked

That theory works if the circle drawn takes into account terrain and HAAT at both ends of the path. APRS doesn't! We have to use our heads about propagation and terrain for the area and direction we are working for the circle to mean anything.

I have used RF engineering software designed to provide this info in graphical map style printouts. It takes time to input all the data and HOURS for the computer to crunch out all the data and draw the map. Still yet these maps DON'T show dead spots (holes) in the coverage. What is shown are the outer limits of the pattern and from that you can sometimes figure out which mountain (obstruction) is in the way. Bear in mind one of the parameters you have to input is RX ANTENNA HAAT and SIG strength desired at the outer most limits. APRS can't do that AND ITS not fair nor practical to expect it to. What it does give us is a ROUGH GUESS of coverage ON FLAT TERRAIN (this comes from observation). Now Bob has suggested that we skew the inputted data so that the ring is close to correct, by changing HAAT, PWR, ANT Gain, and Coverage Angles. This works great on flat LAND. Here in the hills THERE ARE TO MANY OTHER HILLS for this to even be practical. Case of point. I have access to a site that is +2500 feet HAAT (4100 feet at base of tower, and I am in East TN.) However contrary to what the rings would show this site WILL NOT WORK North Georgia Because there are 3,000 foot mountains between us. (It can work the Stone Mtn Georgia though.) However to draw the ring to correctly show it coverage APRS would have to compensate for about 20 offsets in the antenna pattern. Therefor skewing of data is not acceptable. WE HAVE TO THINK...hihi.

> 13B2's and still could not hit that digi, so this tells me that not all digi's are
> created equal. Now maybe it's just bad out my way but that's rather hard to
> believe so at times Yes i use power to get to the person or digi i need to get
> to. How else do you suggest this would be done?.

Bill I agree, you have to use the amount of power necessary to make the Haul. When I first read BOB'S opinion that ALL wides only run 10 watts I almost fell out of my chair laughing. (No offense intended towards Bob.) Then I took into account that terrain Bob was working with. 10 Watts maybe fine THERE.

First CAN SOMEONE define for me IN MILE RANGE OF COVERAGE that a WIDE should be??

My opinion is that if The node Can not make a 50 - 90 mile jump to the next node that it IS NOT A WIDE. It is only a local node. AH, more problems here, welcome to what the PACKET Network Managers have been dealing with for years.....hihi

Bill your words were never truer, "NOT ALL DIGI'S ARE CREATED EQUAL." FOLKS in all probability we have TO MANY WIDES and not enough LOCAL nodes, so we live with 15 echoes from a beacon of WIDE, WIDE. Now I am not espousing that the Local digis' run Relay instead of WIDE, Then we create the same monster only worse, and by a different name.

Recently Bob asked for suggestions about using 4 alias's on a node. Bob, you shot down some of my idea justly. Maybe We have looked at this the wrong direction. Maybe instead of more alias's on each node, we need fewer nodes with the same alias. In other words define a minimum range that a wide should cover. And maybe add a third universal alias, other than WIDE or RELAY, for the local nodes that cannot make the long hauls. There are problems with this idea, namely not everybody can hear the wides and there for would be left out. Well not everybody can get into the high profile repeaters either.

Let me give one parting word. The APRS digi I sysop is at 1200+ feet HAAT and is running 40 watts into a 6 Db Antenna. The 2 closest digis' are 57 and 90 miles away in different directions. Yet we see digipeats and keyboard some from Knoxville TN to Atlanta GA, using only Callsign, wide,wide. Now I can't say that what is seen in Atlanta but we only see one echo from the second wide here in Knoxville. Oh that is probably a 180 mile hop Due to going via A digi in Chattanooga. But then some maybe right, I should drop down to 5 - 10 watts on the digi, and only talk to ourselves locally. Or drop power and add several more digis between here and there, and see 30 echoes of every beacon sent because it has to be sent wide, wide, wide, wide, wide.

hi hi hi

Folks by now everyone should Know what works in there own little corner of the world as far as propagation goes. I can and have helped build a working packet network that runs from Memphis to Bristol TN (600+ miles). But I am not the final authority on what works and what doesn't work in a network. You have to do your own homework and think it thru. Believe me what works in one place may or maynot work in another due to terrain, or just plain politics.

Yep Bill not all digi's are created equal.

>
> Bill KE4EER
> ke4eer@ro.com

> >I am getting confused....I have seen some discussions lately on transmit
> >power on 2 meters where people are talking about power levels much in excess
> >of 5 watts. I thought that if everybody stays at 5 watts there would be a
> >good balance of RX to TX on all stations and the "system" would be
> >"balanced". OK maybe WIDES should have good antenna height, but excessive
> >power??? What are peoples thoughts?
> >
> >Paul, WD9ABE

Yep, Paul you are confused. At 5 watts the system will stay balanced and with luck you may be seen 35 miles away. PLEASE DEFINE EXCESSIVE.....Back when the FCC licensed Ham repeaters anything over 25 watts WITH A HAAT of +2,000 FEET was excessive. Most below that HAAT ran 100 Watts. Using that as a base line maybe I need to change 40 watts to 100 watts.....GRIN..... But then again I don't think so.

73

John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

257. Re:TX power on vhf

From: JeffS5@aol.com
Date: Tue, 14 Nov 1995 02:26:30 -0500
To: aprssig@tapr.org
Message-ID: <951114022630_105981364@mail06.mail.aol.com>
Rendered body type: text/plain

I've been reading through the discussion about who should run what levels of power and from where and it's interesting to see various opinions on what's good, better and lousey. Here's mine:

When in Digi and Repeater land, power is good; More is better, especially when coupled with HAAT's above 0'. I've been doing repeaters and remote bases in So. Cal for 20 years and if you REALLY pay attention to your receiver; get a good front end on it (i.e. sharp cavities to keep out all the 1/2Kw paging xmtrs and various other nasty noise generators), properly shield the radio against building interior RF noise, etc. it's amazing what can be heard.

All of my UHF radios out here run a min. of 100W into 10db stationmasters. The receivers are running Gas-Fet preamps with noise floors less than 1db with cavities into the preamp and between the preamp and receiver. The result is a really loud radio with ERP's approaching 1000 Watts and they are reciprocal with H.T.'s of 1-3 watts. Had a L.A. TV Network call me a few months back wanting to know why our ham stuff worked so good and the system that they paid some "consultant" almost \$1000,000.00 (yep, 3 0's) to screw their's up didn't.

Moral of this story: If your gona make a WIDE, . . make a W I D E ! Just pay attention to 'good engineering practices', build it right, install it right, do your field checks, THEN set the power knob to what works.

In this area I don't think it's a big deal for WIDES & RELAYS to run 100Watt radios. That's what's needed to get in, around, & out of the valley and canyon areas that make up this side of the U.S. It's not uncommon to need 100 watt radios and 6db+ antennas to get 15 miles. That's what I need to run at the house just to get over the hill and into the big BBS. It's also why I can't shut off my radio anymore. Some of the locals figured out this was their ticket to packet outside the local valley. It's going to be interesting to see if the PHG circle theory works at all out here. All we need now is enough APRS activity to check it out (jab-jab).

73' Jeff-WA6EQU

258. NDN:[APRSSIG:4379] Re:TX power on vhf

From: Network_Manager@mtsatelesat.ca
Date: Tue, 14 Nov 1995 02:56:03 EST
To: aprssig@tapr.org
Message-ID: <1995Nov14.025603.4294967295@mtsatelesat.ca>
Rendered body type: text/plain

Your mail to the Microsoft Mail Server could not be fully delivered! Reasons listed below! It has been deleted.

259. Re: [APRSSIG:4374] Re: TX power on vhf

From: n8mwz@alpha.wcoil.com (Bob Hartman)
Date: Tue, 14 Nov 1995 03:07:40 -0500
To: aprssig@tapr.org
Message-ID: <199511140807.DAA29486@alpha.wcoil.com>

Rendered body type: text/plain

>One case that comes to mind is the Orlando Florida area where there are no
>"official" WIDE's yet. They have a 200ft location and are waiting for crystals
>but once that is up there are no other digi's within reasonable range to
link up
>with. In this case they could probably start with a higher power level than
>normal and expiriment. Once the system developes and more WIDE's are built in
>range of Orlando the power level will need to be turned down so that the
system
>can be efficent. In the meantime a high power level will not hurt anyone in
that
>area and give those locals a better chance to link with WIDE's 100 miles
away to
>the West and South East when there is a slight opening, keeping their interest
>alive. As more and more users come on line there will be better input
locally as
>to weather the power level used is necessary or if it needs turning down.

>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida

"A higher power level will not hurt anyone?" Sure hope you don't have any
people in that area trying to listen for the beacon on OSCAR 13 at 145.812
plus or
minus doppler which can take it as low as 145.808 or so. Also the Safex
missions
on MIR will be using 145.800 as a downlink at times and there is likely to
be some
interested people trying to hear them... I always thought that we were
supposed to
run the minimum amount of power needed for communications..

73 de N8MWZ

```
////////////////////////////////////  
//// Bob Hartman, N8MWZ           Grid Square EN70      ///  
//// Lima, Ohio                   40 45N, 084 06W        ///  
//// <n8mwz@amsat.org>             Member ARRL, AMSAT, &  ///  
//// VHF, UHF, OSCAR 13 {soon}    TAWG #OH89           ///  
////////////////////////////////////
```

260. Re: [APRSSIG:4379] Re:TX power on vhf

From: Bob Wilkins n6fri <rwilkins@uhf.org>
Date: Tue, 14 Nov 1995 00:57:35 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951113234113.5262D-100000@ccnet3>
Rendered body type: text/plain

On Tue, 14 Nov 1995 JeffS5@aol.com wrote:

> Moral of this story: If your gona make a WIDE, . . make a W I D E ! Just
> pay attention to 'good engineering practices', build it right, install it
> right, do your field checks, THEN set the power knob to what works.

I totally agree. use good commercial practice using all the proper filters
bottles pre-amps that any good two meter voice repeater has to use. Make
that receiver work, then turn up the power to balance the coverage.

I have seen way too many Wides that if they were two meter repeaters at
the same location, would be laughed off the band. No on would be able to
use them reliably. With the use of APRS mobiles on the increase we should
be able to come up with a standard test of real coverage. I hope the
concept is to serve local mobiles, not to be heard two states away.

Lets developpe a quick and easy test so we can learn to balance our wides.
We have done it with voice repeaters, now lets do it with mobile APRS.

> In this area I don't think it's a big deal for WIDES & RELAYS to run 100Watt
> radios. That's what's needed to get in, around, & out of the valley and
> canyon areas that make up this side of the U.S. It's not uncommon to need 100
> watt radios and 6db+ antennas to get 15 miles. That's what I need to run at
> the house just to get over the hill and into the big BBS. It's also why I
> can't shut off my radio anymore. Some of the locals figured out this was
> their ticket to packet outside the local valley. It's going to be interesting
> to see if the PHG circle theory works at all out here. All we need now is

> enough APRS activity to check it out (jab-jab).

The PHG circle does not work for me. I would need more like a 20 db offset as my station is on the side of a ridge. I love the ping feature to check someones PHG setting. I wish it didn't ring the bell! I can use the ping to check coverage of a digi or wide, five hops away. Send the ping out on a long path and fold it back to where you can see the results.

While pinging five watt mobiles moving at 60 mph I have found they need at least 25 watts on my end to reliably ack. Some of those mobile receivers are not optimized with their tncs. Some must run low power to keep the gps receiver happy. I have tried to set the PHG or MPP circle to approximate mobile coverage. I still have a lot to learn and am having a lot of fun playing.

There should be an automatic way of adding the elevation of wides. I do this manually so when some one uses their Y screen they can see my green house at 600 feet. "Bob why is your house green?" "I'll never tell." I am trying the relay wide concept as none of our wides have added relay to their mountain top digis.

W&KKE has just released camaps04.zip half a meg of great maps and several of the new one mile range local maps centered on active APRS neighborhoods.

camaps04.zip is at tapr or on the california APRS web page for easy d/load.

<http://www.ccnnet.com/~rwilkins/>

| | | |
|----------------------|------|--------------------------------|
| Bob Wilkins | home | n6fri@uhf.org |
| Berkeley, California | work | bwilkins@cave.org |
| 94712-2354 | play | n6fri@n6eeg.#nocal.ca.usa.noam |

261. NDN:[APRSSIG:4382] Re:TX power on vhf

From: Network_Manager@mtsatelesat.ca
Date: Tue, 14 Nov 1995 04:33:41 EST
To: aprssig@tapr.org
Message-ID: <1995Nov14.043341.5262@mtsatelesat.ca>
Rendered body type: text/plain

Your mail to the Microsoft Mail Server could not be fully delivered! Reasons listed below! It has been deleted.

262. receiver desense

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Tue, 14 Nov 1995 08:20:46 -0600
To: aprssig@tapr.org
Message-ID: <199511141420.IAA28199@OAMPC10.csg.mot.com>
Rendered body type: text/plain

>I just found out that there's a STRONG tone carrier at 152.870MHz close by
>that's really messing up my receiver. That, plus the fact that at the last
>Northern IL APRS Net meeting we discussed the problem of not being able to
>hear much (most of those guys are in Chicago) led me to believe that part of
>our problem is receiver desensitization. So I called AES today to see what
>they have for intermod/bandpass filters. If that works pretty well, I'll
>report back.
>
>Barry Leonard
>N9VJQ

I wish you luck and look forward to your results. If your problem is intermod(ulation), or "power desense" (strong RF causing gain reduction in the receiver front end) then you are likely to get good results with a filter.(don't be lead into the misconception that you need a preamp to make up for small filter losses as that can actually lose what the filter gained!) If the problem is wide band noise directly on the RX freq. (classic urban high sky noise temperature) then there is little that can be done with filters. Try a directional antenna to get your beam pattern away from the noise sources (usually there are many) and good luck finding them. On commercial sites people often resort to putting filters, circulators and the like on OTHER peoples transmitters to keep their noise outputs on YOUR freq. down.

Paul, WD9ABE

263. Re: [APRSSIG:4363] 100K maps

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 14 Nov 1995 08:26:34 -0600
To: aprssig@tapr.org
Message-ID: <9511141426.AA30599@omnifest.uwm.edu>
Rendered body type: text/plain

Bill,

May I respectfully suggest that you can not make the "dis"stuctions TOO detailed. What we need (or at least I need) is a "cook book" with each and every step outlined in painful detail. Those with more experience can skip over the very basic details but those of us just starting out - or missing an important message or two need it all!

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

264. NDN:[APRSSIG:4384] receiver desense

From: Network_Manager@mtsatelesat.ca
Date: Tue, 14 Nov 1995 09:41:04 EST
To: aprssig@tapr.org
Message-ID: <1995Nov14.094104.2147492527@mtsatelesat.ca>
Rendered body type: text/plain

Your mail to the Microsoft Mail Server could not be fully delivered! Reasons listed below! It has been deleted.

265. NDN:[APRSSIG:4385] Re: 100K maps

From: Network_Manager@mtsatelesat.ca
Date: Tue, 14 Nov 1995 09:46:13 EST
To: aprssig@tapr.org
Message-ID: <1995Nov14.094613.2147487759@mtsatelesat.ca>
Rendered body type: text/plain

Your mail to the Microsoft Mail Server could not be fully delivered! Reasons listed below! It has been deleted.

266. NDN:[APRSSIG:4386] NDN:receiver desense

From: Network_Manager@mtsatelesat.ca
Date: Tue, 14 Nov 1995 10:23:33 EST
To: aprssig@tapr.org
Message-ID: <1995Nov14.102333.2147492527@mtsatelesat.ca>
Rendered body type: text/plain

Your mail to the Microsoft Mail Server could not be fully delivered! Reasons listed below! It has been deleted.

267. NDN:[APRSSIG:4387] NDN:Re: 100K maps

From: Network_Manager@mtsatelesat.ca
Date: Tue, 14 Nov 1995 10:22:55 EST
To: aprssig@tapr.org
Message-ID: <1995Nov14.102255.2147487759@mtsatelesat.ca>
Rendered body type: text/plain

Your mail to the Microsoft Mail Server could not be fully delivered! Reasons listed below! It has been deleted.

268. Re: [APRSSIG:4387] NDN:Re: 100K maps

From: Greg Jones <wd5ivd@tapr.org>
Date: Tue, 14 Nov 1995 09:48:44 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511141548.JAA03007@sys1.tapr.org>
Rendered body type: text/plain

Please no one reply to this. The account has been removed from the server.

Greg

>

> Your mail to the Microsoft Mail Server could not be fully
> delivered! Reasons listed below! It has been deleted.

>

>

>

>

>

>

269. Re: APRSdr (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 14 Nov 1995 10:53:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951114105217.13327C-100000@greatlakes>
Rendered body type: text/plain

From: james keck <jkeck@smartlink.net>
To: Bob Bruninga <bruninga@nadn.navy.mil>
Subject: Re: APRSdr

The marathon went off well, your APRSdr performed flawlessly. We were set up with two laptops, one in City Hall and the other at the Sheriff's Command Post at the Finish Line. The one at City Hall was in the main communications operations center from which they dispatched the pickup vehicles and controlled the maintenance personnel which picked up the traffic cones after the course officially closed.

I operated from here at the home QTH, where I listened to the race communication activities and reports from each mile marker to update the displays.

The marathon was limited to 600 runners and was the 1st annual event to be held within this city. Next years race is expected to be open to 1500 runners. It was also considered a qualifying event for the olympics (whatever that means).

I was able to put together a standalone unit which we placed on a ROVER motorcycle which was used to dispatch for to meet a variety of miscellaneous requirements. I set the unit to BEACON its position every 2 minutes, however, noticed that when reviewing the HEARD list, it indicated a high of 54 during one hourly period, a couple of hours in the 40 range...The remainder were all below 30, which I expected due to terrain limitations....To explain the over 30 (2 minute) setup, I assume that because I had the unit's path set to Relay, Wide and sometimes could hear the standalone direct as well as through the WIDE, it would show 2 hits on the HEARD list, Correct?

In providing tracking of the Leader, First Male, First Wheelchair and First Female, was pretty predictable...however, attempting to track the Tail End Charlie proved to be a real chore. I think next year, a second standalone to place in a TAIL ROVER, would be of great benefit.

I did have a problem killing and deleting an object after I entered it in the system and set the following function. I finally picked it up and moved it to a far corner off the route, however, I continued to beacon the object until I later found a use for it....After the object finished the course, they turned back to yellow and I could do what I wanted with them....

73...Jim

270. PK-232MBX STA stays on

From: philkeys@olympus.net (Phil Keys)
Date: Tue, 14 Nov 1995 07:56:41 -0800
To: aprssig@tapr.org
Message-ID: <v01510101acce6b2a1825@[198.133.237.33]>
Rendered body type: text/plain

I have just brought up APRS 7.2D on HF for the first time using an AEA PK-232MBX. Everything seems to be working except that the STA light on the PK-232MBX is all on the time. I think this keeps the TNC from transmitting. Any ideas why it stays on?

I am receiving fine on 10,151.6 KHz. I see stations from the mid-West to the East coast and California, nothing in between. My QTH is the Olympic Peninsula in the North West corner of Washington state.

Thanks for the help.
Phil Keys

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

271. Re: [APRSSIG:4384] receiver desense

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 14 Nov 1995 11:21:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951114111735.13327E-100000@greatlakes>
Rendered body type: text/plain

I donno if everyone else saw it, but for the past few months, an outfit has been selling a 4 cavity helical resonator filter for 2 meters that has less than 1db insertion loss and -30db attn at 145.1 and similarly below the band. This unit is of EXCELLENT quality construction and is about the size of a small loaf of bread. It only costs \$89. !!!!!
Model DCI-146.4H

This thing is my dream come true!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

On Tue, 14 Nov 1995, Paul Moller wrote:

> >I just found out that there's a STRONG tone carrier at 152.870MHz close by
> >that's really messing up my receiver. That, plus the fact that at the last
> >Northern IL APRS Net meeting we discussed the problem of not being able to
> >hear much (most of those guys are in Chicago) led me to believe that part of
> >our problem is receiver desensitization. So I called AES today to see what
> >they have for intermod/bandpass filters. If that works pretty well, I'll
> >report back.
> >
> >Barry Leonard
> >N9VJQ

272. [Fwd: Re: Can someone repost some Sony IPS-760 PYXIS FAQ's?]

From: crpl.cedar-rapids.lib.ia.us@tapr.org (David Barrett)
Date: Tue, 14 Nov 1995 10:29:32 -0600
To: aprssig@tapr.org
Message-ID: <199511141630.KAA04124@sys1.tapr.org>
Rendered body type: text/plain

>Message-ID: <30A8A738.624B@crpl.cedar-rapids.lib.ia.us>
>Date: Tue, 14 Nov 1995 06:27:04 -0800
>From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
>X-Mailer: Mozilla 2.0b1 (Windows; I; 16bit)
>MIME-Version: 1.0
>To: barrettd@crpl.cedar-rapids.lib.ia.us
>Subject: [Fwd: Re: Can someone repost some Sony IPS-760 PYXIS FAQ's?]
>Content-Type: message/rfc822; charset=us-ascii
>Content-Transfer-Encoding: 7bit
>Content-Disposition: inline
>
>Path:
news.uiowa.edu!chi-news.cic.net!newsfeed.internetmci.com!in2.uu.net!pipeline
!not-for-mail
>From: pstein@measurement.com (Philip Stein)
>Newsgroups: sci.geo.satellite-nav

>In article <482rgu\$car@gryphon.phoenix.net>, Alan Wen writes:

>
>>
>>I've read some reviews and articles about the Sony and some of them
>>mention that there is a FAQ in this newsgroup somewhere that has info
>>such as undocumented features, add-ons, and others.
>>
>More Info on the IPS-760. Hidden OR Non-documented
>features do exist, don't they!!!
>First: There is a Supplement-1 for the Sony Service
>Manual. In it it describes the SERVICE mode.
>(1) Turn on the POWER switch, and make sure that the
>POS mode screen is displayed. ("POS" is displayed
>in the upper left of screen.)
>(2) Press the "MENU" + F4 keys. (Keep pressing both
>keys simultaneously.) Then, the SERVICE mode will
>become active.
>(3) The screen to confirm the ROM version, RAM
>read/write operation and ROM checksum is displayed.
>(4) Press ENTER key and the receiver monitor screen
>is displayed. (If F1 key is pressed here, the screen
>is returned to normal mode.)
>
>There is much more!!!!!!!!!!!!!!
>Instead of the service mode.
>


```

>From normal mode press MENU. Then press MENU + DISPLAY
>and the GRID LOCATOR screen is displayed showing
>YOUR present GRID SQUARE position. Not documented!!!
>
>From normal mode press MENU. Then press MENU + F2
>and the EXTERNAL OUTPUT menu is displayed.
>NONE
>Position Output
>Video Output
>
>Again NOT documented!!!!
>
>Select the desired with the up/down arrow keys. Press
>ENTER.
>
>From normal mode press MENU. Then press MENU + F1
>and the INTERNAL I/O screen is displayed. Again not documented!!!
>EXTERNAL I/O
>9600 bps
>Memory Input
>Memory Output
>Card 1 Input
>Card 1 Output
>Card 2 Input
>Card 2 Output
>Display Output
>
>Note the sub-menu for baud rate:
>1200
>2400
>4800
>9600
>19200
>38400
>
>Select the desired and press ENTER.
>
>Do any of these menu selections work????
>I have not yet hoohed up to the data port. I am
>looking for the proper 10 pin connector.
>
>Is there any interest in this stuff???????????
>
>
>
>
>>Subject: Sony Pyxis Serial Output
>>
>>
>> Phil,
>>
>> Using more sophistication in attempting to capture serial output
>> from my Pyxis unit the following things were done.
>>
>> Connected Radio Shack 10 pin D shell to 25 pin D shell modem
>> cable to unit.
>>
>> Jumpered 25 pin D shell pins 3, 6, and 7
>>
>> Pressed <Menu> + <F2>
>>
>> Selected Position
>>
>> Pressed <Menu> + <F1>
>>
>> Captured the following data using Windows Terminal Program set as
>> com1:9600,8,1,n
>>
>>
>> SONY73950816331632N3004916W0410748+0015003109508163031631CTaIaFSU
>> DOFHAEGA0DiFHTCFFVFCrACjOABNCdACCD180
>> SONY73950816301633N3004915W0910748+0015003189508163031632C4aIaFSU
>> DOFHAEGACDiFITCFFEVFCrACPOACNCdACCD690
>> SONY73950816331634N3004915W0410749+0016000109508163031633QTaIaFTU
>> DOBGAEGA0DiFITCFFGVFCrABjOABNCdABCD30E
>> SONY73950816301635N3004914W0910749+0017003189508163031634C4aIaFTU
>> DOFHAEGACDiFJTCTFFGVFCrACPOABNCdACCD810

```

```

>> SONY73950816303636N3004914W0940749+0018003182508163031635C4aIaFTU
>> DOFGAEGABDiFITCFFGVCrACPOABNCdABCD410
>> SONY73950816301637N3004914W0910749+0018002199508163031636C4aIaFRU
>> DOFHAEGABDiFITCFFGVCrACPOABNCdABCD020
>> SONY73950816301638N3004913W0910749+0019003179508163031637C4aIaFSU
>> DOFHAEGABDiFITCFFGVCrACPOABNCdABCD530
>> SONY73950816301639N3004913W0910749+0020003189508163031638C4aIaFSU
>> DOFHAEGABDiFITCFFVCrACjOABNCdACCD13E
>>
>> I believe some of this may be true.
>>
>> SONY73
>> 95 (yy)
>> 08 (mm)
>> 16 (dd)
>> 30 (??)
>> 16 (??)
>> 31 (??)
>> N 30? 04.916' (correct lat)
>> W 09? 10.748' (real lon = W 94? 10.748')
>> +0014003179508163031630C4aIaFTUDOFHAEGACDiFHTCFFHVCrABPOABNCdACCD
>> 68E (??)
>
>Here is my cut on this!!!!
>
>SONY73 Version and ID
>950816 current date(16th of Aug, 1995)
>3 current day of week, 3=Wednesday
>31639 current time, in UTC(GMT) (03:16:39)
>N3004913 latitude (North, 30 and 04' 9.13")
>W0910749 longitude (West, 091 and 00' 7.49")
>+0020 altitude (+20meters)
>003 horizontal velocity (3km/hr)
>18 horizontal movement direction
>950816 date when you received the position
>3 day of week when you received the position
>031638 time when you got the position, in UTC (GMT)
>C DOP(precision) (A=1,B=2,C=3,D=4)
>4 number of satellites(4, so currently 3-dimensional positioning)
>aIaFS satellite information #1
> a is satellite number
> I is the angle of elevation
> a is the angle of direction
> F is the operation mode
> S is the wave level
>UDOFH satellite information #2 (same format as #1)
>AEGAB satellite information #3
>DiFIT satellite information #4
>CFFFV satellite information #5
>CrACj satellite information #6
>OABNC satellite information #7
>dACCD satellite information #8
>13 state of the internal clock
>E parity
>
>The ---- END -----
>
>This may help in understanding the data from the data port!!
>Let me know if there are any questions.
>
>
>Phil,
> I have the EXC-232V for the IPS-760. It is titled "Handy
>Navigation Link". It includes:
>
> Supplied:
> PC Communication Program Disk
> IPS-760 Application Program Card
> Dedicated Cable
> Instruction Manual
>
> PC Communication Program Disk:
> (Program titles on disk)
> From760.exe
> This program allows the user to receive data to a file from
> the IPS-760.
> To760.exe
> This program allows the user to send PXS format data to the
> IPS-760.

```

```

> PXS2CSV.exe
> This program converts the proprietary 'PXS' format to the
> public 'CSV' format.
> CSV2PXE.exe
>
> This program converts the public 'CSV' format to the
> proprietary 'PXS' format.
>
> The IPS-760 Application Card has ONE application on it. It is
> titled 'Communication Program' and is copy protected. I can not
> duplicate the program. ----> At least not just yet!!
>
> After starting the Communication Program the user has the following
> screen.
>
>
> Communication program
> _____
>
> Memory output
> Memory input
> Card output
> Card input
> Card initialize
> Position output OFF / ON
>
>
> That is ALL!!!
>
> Definition: Memory output ==> From User Memory
> Memory input ==> To User memory
>
> User Memory is 96K bytes.
>
> You can ONLY upload or download the entire 96K
> user memory at once. There is no exception.
>
> In user memory is:
> points
> routes
> tracks
> set-up zones
>
>
> Card ==> A memory card
> Can be written or read if NOT copy protected. Can
> include maps, points, routes, tracks and set-up zones.
>
> Position output ON streams data from the IPS-760 without regard to
> the status of control ports, DSR and CTS. The IPS-760 does not
> control the DTR and RTS.
>
> THERE IS NO DISPLAY OF POSITION ON THE IPS-760 DURING POSITION ON!!!!
>
> Serial Port Settings:
> 9600bps, 8data bits, 1 stop bit, no parity
>
> Output from user memory and memory cards is in 'PYXIS' format, which
> includes point, route, and track information. The conversion program
> provided will convert it to CSV format.
>
>
> CSV FROMAT:
> Point:
> P,<point name>,<datum>,<date>,<time>,<latitude>,<longitude>,<
> <altitude>,<icon>,<attribute>,<N/U>,<memo>,<CR><LF>
>
> Route:
> R,<route name>,<datum>,<date>,<time>,<point number>,<point name>...
> <point name>,<CR><LF>
>
> Track:
> T,<track name>,<coordinate>,<
> <start date>,<start time>,<start latitude>,<start longitude>,<start
> altitude>
> <stop date>,<stop time>,<stop latitude>,<stop longitude>,<stop
> altitude>
> <pass date>,<pass time>,<pass latitude>,<pass longitude>,<pass
> altitude>

```

```

> "
> "
> "
> <pass date>,<pass time>,<pass latitude>,<pass longitude>,<pass
> altitude>,<CR><LF>
>
>##### The dedicated data cable contains an inline circuit board powered
>
>by the IPS-760. It contains ONE IC (MC145407) and associated passive
>components. The CMOS device is a 5 VOLT Only Driver/Receiver(EIA-323-D).
>
>It combines three drivers and receivers. A built in voltage doubler and
>inverter converts +5 volts to +/-10 volts. It uses four external
>capacitors.
>
>Apparently this provides buffering between a PC and the IPS-760, but the
>design purpose of the MC145407 is to convert TTL to RS-232. While it
>appears that the IPS-760 has direct RS-232 output, I can think of no reason
>
>to believe that it serves any purpose other than that of a buffer. I
>haven't yet copied out the circuit card to verify my thoughts. It is
>a surface mount board about 1" x 1.5" with a plastic box over it. The
>board is covered with a plastic tube and then wrapped with grounded shield
>tape. The IC has on board a 20kHz oscillator for the voltage inverter.
>
>
>So far I have downloaded the data stream with the Sony cable and card-->
>OK!
>Now I have done the same without either!!! also ---> OK!
>
>I have successfully used the Sony card and cable to upload/download IC Card
>
>data. ----> OK!
>
>Not yet have I made any progress without the Application program to upload/
>
>download IC card data. <><><><> Not so good !!! Maybe to come??
>
>Phil: There is more to do here. What do you think so far!!!
>
>George
>Phil,
> I have some further information on decoding the Data Format for
>Position Output:
>
>The IPS-760 transmits position data every one second. This data format is
>the same as the IPS-3000, which includes 108 ASCII characters, "Carriage
>Return" and "Line feed". The sample data is as follows.
>
>SONY73 9508211122322 N3833744 W12244456 +2345 234 271 9508211122321 A
> A B C D E F G H I
>
>3 A RHECT SHQFN BDdFP aGfFM KCJCN dCNFN CcPAB LfEAB A D 34 0
>J K L M N O P Q R S T U V W
>
>A: Sony software version 7.3
>B: Date & Time
> 95 08 21 1 12 23 22
> where 95 = year
> 08 = month
> 21 = day
> 1 = day of week: 0(Sunday) - 6(Saturday)
> 12 = hour (24 hour clock)
> 23 = minutes
> 22 = seconds
>
>C: Latitude Degree, minute, minute/1000
> where N3833744 means N38" 33.744'
>
>D: Longitude Degree, minute, minute/1000
> where W1224445 means W122" 44.456'
>
>E: Altitude in meters
> +2345 + indicates above earth ellipsoid
> - indicates below earth ellipsoid
>
>F: Velocity
> 234 km/hr
>

```

```

>G: True bearing / direction relative to True North
> 271 degrees measured clockwise from True North (up to 360 degrees)
>
>H: Calculation time. The time the IPS-760 calculated position
> 95 08 21 1 12 23 21
> 95 = year
> 08 = month
> 21 = day
> 1 = day of week
> 12 = hour
> 23 = minutes
> 21 = seconds
> Acquisition time is usually one second prior to display time.
>
>I: Indicates DOP
> Table:
> Display DOP Display DOP
> A 1 J 10
> B 2 K 11 - 12
> C 3 L 13 - 15
> D 4 M 16 - 20
> E 5 N 21 - 30
> F 6 O 31 - 50
> G 7 P 51 - 99
> H 8 Q 100+
> I 9
>
> A ..... DOP = 1
>
>J: Indicates measurement mode
> 3 = 3 satellites used (2-D mode)
> 4 = 4 satellites used (3-D mode)
>
>K: Indicates Map Datum of position data
> 26 different world datums(A-Z) selectable from the Map Datum List.
>
> A = WGS-84
> B = Tokyo
> C = ADINDAN
> D = ARC 1950
> E = MERCHICH
> F = HONG KONG 1963
> G = SOUTH ASIA
> H = LUZON
> I = INDIAN
> J = INDIAN
> K = FERTAU 1948
> L = NORTH AMERICAN 1927 (use for Belize, Costa Rica, El Salvador,
> M = EUROPEAN 1950 (Guatemala, Honduras, Nicaragua)
> EUROPEAN 1979
> N = IRELAND 1965
> O = ORDNANCE SURVEY OF GREAT BRITAN 1936
> P = NAHRWAN
> Q = NAHRWAN
> R = OLD EGYPTIAN
> S = NORTH AMERICAN 1927 (use for Canada, Newfoundland Island)
> T = NORTH AMERICAN 1983 (Alaska, Canada, Mexico, Central America, USA)
> U = AUSTRALIAN GEODETIC 1984
> V = GEODETIC DATUM 1949
> W = PROVISIONAL SOUTH AMERICAN 1956
> X = SOUTH AMERICAN 1969
> Y = CAMPO INCHAUSPE
> Z = CORREGO ALEGRE
>
> A = WGS-84
>
>
>L: Indicates Channel 1 satellite information
> R H E C T
> 1 2 3 4 5
>
> 1st letter indicates satellite PRN Number
> 2nd Elevation
> 3rd Azimuth
> 4th Receiver & Sat info.
> 5th Sat signal strength
>
>M: Indicates Channel 2 satellite information
>N: Indicates Channel 3 satellite information

```

```

>O: Indicates Channel 4 satellite information
>P:          5
>Q:          6
>R:          7
>S:          8
>
> PRN Number:
>
> Display PRN# Display PRN# Display PRN#
> A 1 L 12 W 23
> B 2 M 13 X 24
> C 3 N 14 a 25
> D 4 O 15 b 26
> E 5 P 16 c 27
> F 6 Q 17 d 28
> G 7 R 18 e 29
> H 8 S 19 f 30
> I 9 T 20 g 31
> J 10 U 21 h 32
> K 11 V 22
>
>
> Satellite Elevation:
>
> Display Elevation Display Elevation
> A 0 > +5 a 0 > -5
> B +6 > +15 b -6 > -15
> C +16 > +25 c -16 > -25
> D +26 > +35 d -26 > -35
> E +36 > +45 e -36 > -45
> F +46 > +55 f -46 > -55
> G +56 > +65 g -56 > -65
> H +66 > +75 h -66 > -75
> I +76 > +85 i -76 > -85
> J +86 > +90 j -86 > -90
>
> Satellite Azimuth:
>
> Display Azimuth Display Aximuth
> A 0 > +5 a 0 > -5
> B +6 > +15 b -6 > -15
> C +16 > +25 c -16 > -25
> D +26 > +35 d -26 > -35
> E +36 > +45 e -36 > -45
> F +46 > +55 f -46 > -55
> G +56 > +65 g -56 > -65
> H +66 > +75 h -66 > -75
> I +76 > +85 i -76 > -85
> J +86 > +95 j -86 > -95
> K +96 > +105 k -96 > -105
> L +106 > +115 l -106 > -115
> M +116 > +125 m -116 > -125
> N +126 > +135 n -126 > -135
> O +136 > +145 o -136 > -145
> P +146 > +155 p -136 > -155
> Q +156 > +165 q -156 > -165
> R +166 > +175 r -166 > -175
> S +176 > +180 s -176 > -180
>
> Receiver and Satellite Information
>
> Display Situation
> A Searching for satellites (SCAN)
> B Receiver has synchronized with satellite signal (LOCK)
> C Can be used for position calculation
> D Satellite signal has been interrupted (HOLD)
> E Satellite has been set unhealthy -not available for calculation
> F Satellite has been used for position calculation
>
> Receiver Signal Strength
> A (Low level) through to Z (high level)
>
>T: ?????
>
>U: ?????
>
>V: ?????
>
>W: Indicates parity either E or O

```


DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

```
>This is getting so bad i may have to unsubscribe. I have received about 10
>already this morning. Is this getting to the SIG at all...
>
>Bill KE4EER
>ke4eer@ro.com
>
>U made it.
>
>
>
```

Hey Bill, many thanks for the tips with MKMAPHK....your idea of making the grid system sounds like what I need to do. I seem to be missing something, that is, how do you draw the grid in mapfix16.exe? Guess you figured anyone doing this would already know how to make a grid. Read the text files that are in the APR574b, including the Basic Help Screen for Mapfix, and tried about everyway I could figure to draw it, with no success. Maybe someone else out there can explain to a novice. Would like to grid up the City of Charlotte here. Thanks for all the help again.
Bill Richarz <WA4VAF>
wricharz@ix.netcom.com

— —

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

281. Re: [APRSSIG:4381] Re: TX power on vhf

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Tue, 14 Nov 95 14:02:31 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511141954.NAA24545@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

Lemme throw my 2 cents in here on pwr output. With a 3 dB omni on the roof, I can hit the WIDE that's, if the truth be told, gotta HAAT just above line of sight. And for only being 17 mi away, that ain't much. The pwr that I'm using is 2.5 W, from my TH-27, thru the DCI-146-4H intermod filter that the nice UPS lady just brought me from AES. I ordered it yesterday PM. Pretty good, huh.

I would rather hit the WIDE with a little power than pump a LOT of power into the air and mess up everybody's phones and TV's. It kinda reminds me of alot of people standing in a room, all shouting to be heard. It gets on one's nerves, and doesn't solve the problem.

I'll test the bandpass filter and let you all know how it works.

----- REPLY, Original message follows -----

Date: Tuesday, 14-Nov-95 02:26 AM

From: Bob Hartman \ Internet: (n8mwz@alpha.wcoil.com)
To: APRS SIG \ Internet: (aprssig@tapr.org)

Subject: [APRSSIG:4381] Re: TX power on vhf

"A higher power level will not hurt anyone?" Sure hope you don't have any people in that area trying to listen for the beacon on OSCAR 13 at 145.812 plus or minus doppler which can take it as low as 145.808 or so. Also the Safex missions on MIR will be using 145.800 as a downlink at times and there is likely to be some interested people trying to hear them... I always thought that we were supposed to run the minimum amount of power needed for communications..

73 de N8MWZ

////////////////////////////////////
//// Bob Hartman, N8MWZ Grid Square EN70 ////
//// Lima, Ohio 40 45N, 084 06W ////
//// <n8mwz@amsat.org> Member ARRL, AMSAT, & ////
//// VHF, UHF, OSCAR 13 {soon} TAWG #0H89 ////
////////////////////////////////////

----- REPLY, End of original message -----

--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W

282. Re: [APRSSIG:4398] Re: receiver desense

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Tue, 14 Nov 95 14:02:41 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511141954.NAA24550@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

Amateur Electronic Supply, 1-800-558-0411, is selling the DCI-146-4H for that price. Also advertised in Nov QST on Pg 197. Rated for 200W. STAY AWAY FROM CATV MIDBAND TRAPS. WON'T HANDLE THE PWR OUT!!!

That's the one I ordered, and thanks Bob for the recommendation. (heard you last nite on newslne)

----- REPLY, Original message follows -----

Date: Tuesday, 14-Nov-95 12:02 PM

Subject: [APRSSIG:4398] Re: receiver desense

What outfit?

From: Bob Bruninga[SMTP:bruninga@nadn.navy.mil]
Sent: Tuesday, November 14, 1995 10:39 AM
To: aprssig@tapr.org
Subject: [APRSSIG:4393] Re: receiver desense

I donno if everyone else saw it, but for the past few months, an outfit has been selling a 4 cavity helical resonator filter for 2 meters that has less than 1db insertion loss and -30db attn at 145.1 and similarly below the band. This unit is of EXCELLENT quality construction and is aobut the size of a small loaf of bread. It only costs \$89. !!!!!!!
Model DCI-146.4H

This thing is my dream come true!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

----- REPLY, End of original message -----

--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W

283. Re: [APRSSIG:4400] Re: 100K Maps

From: ke4eer@ro.com (William Nolle)
Date: Tue, 14 Nov 1995 14:56:51
To: aprssig@tapr.org
Message-ID: <199511142204.QAA20967@sh1.ro.com>
Rendered body type: text/plain

Well Bill see if i can explain this, i'm doing one right now for the whole state of Alabama (In 10 mile squares). start Mapfix16.exe and bring up a rough map of the city that covers the area you want to do in 1 mile maps. Now hit the ALT-R key and enter 1 (For 1 mile range). then to move the white 1 mile square box to your starting point move the cursor to the upper left corner of the area you want to cover. Then draw a line by placing your cursor at the upper left corner of the white box. hit ALT-N then pick you color, I use 2 most of the time. Now move the cursor to the right of the area you want to cover without moving the cursor Up/Down. When you get to the end hit the ALT-A key this will draw the line. Now start this process all over with the bottom left of the white box. Do the vertical lines in the same manner. Ones you have the grid covering the City bring the white box to each square by using the ALT-C after placing the cursor in the middle of that square.

Now what i do is only mark down the coordinnance for the top horizontal row, and the left vertical row. the reason for this is that you can realy get all the Lot/Lan measurements from them two figures for the whole gridwork.

Hope this helps

Bill KE4EER
ke4eer@ro.com

>Hey Bill, many thanks for the tips with MKMAPHK....your idea of making the
>grid system sounds like what I need to do. I seem to be missing something,
>that is, how do you draw the grid in mapfix16.exe? Guess you figured anyone
>doing this would already know how do make a grid. Read the text files that
>are in the APRS74b, including the Basic Help Screen for Mapfix, and tried

>about everyway I could figure to draw it, with no success. Maybe someone else
>out there can explain to a novice. Would like to grid up the City of Charlotte
>here. Thanks for all the help again.
>Bill Richarz <WA4VAF>
>wricharz@ix.netcom.com
>

284. 2m FILTERS (rev 1)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 14 Nov 1995 17:30:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951114172735.22123A-100000@greatlakes>
Rendered body type: text/plain

I donno if everyone else saw it, but for the past few months, an outfit has been selling a 4 cavity helical resonator filter for 2 meters that has less than 1db insertion loss and -30db attn at 152 MHz and similarly below the band at 140 MHz. This unit is of EXCELLENT quality construction and is about the size of a small loaf of bread. It only costs \$89. !!!!!

Model DCI-146.4H Avail from Digital Comm Inc Phone 306 781-4451
PO Box 293
White City SK, Canada S0G 5B0

Look for their Add in QST...

This thing is my dream come true!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

On Tue, 14 Nov 1995, Paul Moller wrote:

> >I just found out that there's a STRONG tone carrier at 152.870MHz close by
> >that's really messing up my receiver. That, plus the fact that at the last
> >Northern IL APRS Net meeting we discussed the problem of not being able to
> >hear much (most of those guys are in Chicago) led me to believe that part of
> >our problem is receiver desensitization. So I called AES today to see what
> >they have for intermod/bandpass filters. If that works pretty well, I'll
> >report back.
> >
> >Barry Leonard
> >N9VJQ

285. Re: [APRSSIG:4392] PK-232MBX STA stays on

From: philkeys@olympus.net (Phil Keys)
Date: Tue, 14 Nov 1995 14:36:39 -0800
To: aprssig@tapr.org
Message-ID: <v01510101accec87ed2d3@[198.133.237.44]>
Rendered body type: text/plain

Bob Bruninga, WB4APR, hit the nail on the head. The TNC had been set up for Pactor and (I'm told) the DCD light stays on all the time (is ignored?). Turning down the DCD threshold until the DCD light went out was the answer. The TNC then can transmit. With the DCD light on, it always thinks the channel is busy and never transmits.

Thanks all
Phil Keys

>I have just brought up APRS 7.2D on HF for the first time using an AEA
>PK-232MBX. Everything seems to be working except that the STA light on the
>PK-232MBX is all on the time. I think this keeps the TNC from
>transmitting. Any ideas why it stays on?
>

>I am receiving fine on 10,151.6 KHz. I see stations from the mid-West to
>the East coast and California, nothing in between. My QTH is the Olympic
>Peninsula in the North West corner of Washington state.

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

286. Re: [APRSSIG:4400] Re: 100K Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 14 Nov 1995 17:44:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951114174114.22123D-100000@greatlakes>
Rendered body type: text/plain

On Tue, 14 Nov 1995, William Richarz wrote:

> Hey Bill, many thanks for the tips with MKMAPHK...your idea of making the
> grid system sounds like what I need to do. I seem to be missing something,
> that is, how do you draw the grid in mapfix16.exe? Guess you figured anyone

APR REPLY: Dont even bother with a grid. Just chhose map centers every
2 minutes of latitude and 2 minutes of longitude. This gives you a
grid. Remember that a "1 mile" APRS map is 1 mile out from the center,
or 2 miles on a side. And 2 miles is 2 minutes of LATITUDE. The
longitude is less, as you go north from the equator, but this just lets
you have a little more e/w overlap on the maps. Then ask MKMAPHK to make
you some 1.2 maps on those centers....

To draw lines in MAPFIX, just move the cursor as if you wer adding
roads. Use the ALT-N to be gin a new feature and ALT-A to add points to
it.

287. WIDES and XMTR Power

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 14 Nov 1995 18:24:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951114181356.22123E-100000@greatlakes>
Rendered body type: text/plain

In REPLY to the comment made here:

"A higher power level will not hurt anyone?" Sure hope you don't have any
people in that area trying to listen for the beacon on OSCAR 13 at 145.812
plus or minus doppler which can take it as low as 145.808 or so. Also the
Safex missions on MIR will be using 145.800 as a downlink at times and
there is likely to be some interested people trying to hear them...

APR COMMENT: We should run the minimum power necessary from all BASE
stations and digipeaters. PERIOD. Obviously, though it is TOPOLOGY
dependent. If you have a digi on a mountain 30 miles from the nearest
SATELLITE operator, then it can be greater than 10 watts... But if your
DIG is in the middle of a residential communitcy, then 10 watts should
be safe.

There is only 1 rule for WIDES: As WIDEly separated as possible. There
is no longer any need for little WIDES to fill in gaps for mobiles.
Those gap-fillers should be RELAY. And all mobiles should beacon via
RELAY,WIDE..... This, of course, requires that the WIDES also have a
dual alias of RELAY. Where you have flat land and big mountains, such as
CALIF, obviously, the mobiles can usually hit the WIDES from everywhere,
so those mobiles can just go via WIDE,WIDE..... But the overall
philosophy remains the same: WIDES should be WIDELY separated and RELAYS
should fill in the gaps.

Run MIMIMUM POWER for the sake of the satelite guys. WHen MIR begins
operating on 145.80, tell all your AMSAT buddies to set their monitoring
receivers to 145.805 so they dont have to hear packets, since the PLUS
doppler when the MIR approaches will be at 145.803 or so anyway...
If they are manning the station, then can down tune as the pass proceeds.

288. Re: [APRSSIG:4399] Re: Testing Message

From: jkerns@usit.net (jim kerns)
Date: Tue, 14 Nov 1995 18:24:20 -0500
To: aprssig@tapr.org
Message-ID: <199511142318.SAA17888@use.usit.net>
Rendered body type: text/plain

>>This is getting so bad i may have to unsubscribe. I have received about 10
>>already this morning. Is this getting to the SIG at all...

>>
>>Bill KE4EER
>>ke4eer@ro.com
>>
>>U made it.
>>

>>
Bill u made it Oliver Springs, Tn. brought up your msg on 11/14 at 6:15 EDT
Jim, N4PUQ in Tn.>>
>
>
>

289. 100K DLG Dozens of files???

From: n2czf@gate.net
Date: Tue, 14 Nov 1995 20:21:12 -0500
To: aprssig@tapr.org
Message-ID: <199511150121.UAA50490@tequesta.gate.net>
Rendered body type: text/plain

Well I have been trying to get a few maps made of the area but after seeing the FTP site I can't believe what I see. The "org.gz" files are quite a few just for the Eastern Section of West Palm Beach, 12 to be exact. In addition to this this is just for the transportation features of the GLS files, this does not include the water masses or borders! I can see several files for everything but this is several for just one feature, am I missing something??? There is one file that I downloaded last night but it was a std.gz file that did not work, it was big 1.6meg compressed (6.6 uncompressed) and after reading Gerry's message today I see that the other version is needed. It seems that the file I got last night was everything in one bundle but guess we can't use it.

Any input ?? Sure does seem like I WILL be getting that CD-ROM after all!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

290. WIDE BT string

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Tue, 14 Nov 95 20:30:29 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511150222.UAA27686@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

I need a clarification...

In the DIGI.txt, it sez that the height calculation to put into the BT is "Log 2(HAAT/10)". Now is this Log to the base 2, rather than Log base 10?

Something tells me I'm gonna dig out my math books. Of course there's ENCARTA!

--

Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W

291. CD's for MAPS

From: rwf <rwf@mindspring.com>
Date: Tue, 14 Nov 1995 21:53:16 -0500
To: aprssig@tapr.org
Message-ID: <199511150253.VAA20089@borg.mindspring.com>
Rendered body type: text/plain

Tried to order today, but got NO ANSWER on Fax number at USGS.
Wonder if they are all furloughed?

Was talking to the FBI today about an investigation of something and they told me they could not open a new investigation because all the clerks (who know how to do that) were laid off, too!

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

292. Re: [APRSSIG:4393] Re: receiver desense

From: Michael Walker <mwalker@gold.interlog.com>
Date: Tue, 14 Nov 1995 22:18:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9511142214.A4151-0100000@gold.interlog.com>
Rendered body type: text/plain

The company is called DCI and they are located up here in Canada (eh!).

There filter is ok, but not as great as the one made from Sinclabs. You have to be careful you don't bang it, as it could detune it. I've been involved in some testing in both units. The Sinclabs one is by far the best, but at about 3 times the price. DCI does have an 800 number, so if you need it, let me know and I will dig it out while I'm at work.

Cheers...mike

Michael Walker
mwalker@interlog.com
VA3MW

On Tue, 14 Nov 1995, Bob Bruninga wrote:

> I donno if everyone else saw it, but for the past few months, an outfit
> has been selling a 4 cavity helical resonator filter for 2 meters that
> has less than 1db insertion loss and -30db attn at 145.1 and similarly
> below the band. This unit is of EXCELLENT quality construction and is
> about the size of a small loaf of bread. It only costs \$89. !!!!!
> Model DCI-146.4H
>
> This thing is my dream come true!
>
> DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
>
> On Tue, 14 Nov 1995, Paul Moller wrote:
>
> > I just found out that there's a STRONG tone carrier at 152.870MHz close by
> > that's really messing up my receiver. That, plus the fact that at the last
> > Northern IL APRS Net meeting we discussed the problem of not being able to
> > hear much (most of those guys are in Chicago) led me to believe that part of
> > our problem is receiver desensitization. So I called AES today to see what
> > they have for intermod/bandpass filters. If that works pretty well, I'll
> > report back.
> >
> >
> > Barry Leonard
> > N9VJQ
>
>

293. APRS EVENT

From: KD4EMI@aol.com
Date: Tue, 14 Nov 1995 22:53:45 -0500
To: aprssig@tapr.org
Message-ID: <951114224133_106773373@mail06.mail.aol.com>
Rendered body type: text/plain

World AIDS awareness day is December 3rd. I presented APRS to the organizers and they were impressed. They have asked us to provide 3 APRS stations and 8 operators. If you are on this sig and live in south Florida, could you try to help?
We are expecting 10, 000 (NOT A TYPO) walkers/runners for this highly public event. Please contact Mike KD4EMI@305-974-4153 from 8am to 10pm for more info.

I have designed a APRS shirt that features gps birds in orbit, ham radio, and "We know where you are" saying with space to add your callsign and Lat/long to it. I will issue these shirts to all of those who help. The shirt alone is worth the morning shift and is a neat design. (no I havent thought about selling it yet)
So if you help, you get at the least , a shirt, and whatever goodies and fun you'll have as well. APRS stations invited to listen in that day. We will link the event to HF.

(No jokes about the clean shaven and clean clothes note I made before)

This will be sort of like our own little MC Marathon.
Mike KD4EMI KD4EMI@AOL.COM

294. Re: [APRSSIG:4412] WIDE BT string

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 14 Nov 1995 22:56:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951114225409.23328B-100000@greatlakes>
Rendered body type: text/plain

On Tue, 14 Nov 1995, John B. Leonard wrote:

> I need a clarification...
> In the DIGI.txt, it sez that the height calculation to put into the BT is
> "Log 2(HAAT/10)". Now is this Log to the base 2, rather than Log base 10?

APR REPLY. Yes, Log to the base 2. Or in other words....

| | |
|---------|----|
| 10 ft | =0 |
| 20 ft | =1 |
| 40 ft | =2 |
| 80 ft | =3 |
| 160 ft | =4 |
| 320 ft | =5 |
| 640 ft | =6 |
| 1280 ft | =7 |
| 2560 ft | =8 |
| 5120 ft | =9 |

295. Re: [APRSSIG:4411] 100K DLG Dozens of files???

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 14 Nov 1995 22:58:59 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511150458.WAA11611@solar.cs.tamu.edu>
Rendered body type: text/plain

Once again!

When downloading the files from the USGS FTP site, there *IS* a system.

1. You want "optional" format files. So, get the ones that are something.opt.gz
2. In general terms, you want transportation. There are 3 types. the MTF files have little of value. forget them.

the RRF files are rail info. They can be useful and are not too big. But they are not usually of primary interest.

The RDF files are the ROADS. Get them.

3. The QUAD SHEETS are organized into 2 segments: East and West. The Quads are actually divided into 8 segments.

Segments 1,2,5 and 6 are in Whatever-WEST_State. Segments 3,4,7 and 8 are in Whatever-EAST_State. If you're sure of what QUAD you want, but not which side you're in, get 'em both.

In my area, the files are:

AU2.RDF01.opt.gz
AU2.RDF02.opt.gz
AU2.RDF03.opt.gz
AU2.RDF04.opt.gz
AU2.RDF05.opt.gz
AU2.RDF06.opt.gz
AU2.RDF07.opt.gz
AU2.RDF08.opt.gz

A quick pass with GZIP (-d option) unzips 'em all. I did, of course rename the files as I downloaded them to something I can deal with in DOS, since it can't handle long file names... and neither can qbasic in a real operating system, either! I usually rename them to something like,

AU2RDF03.gz

Unblock renders them 'AU2RDF03.DLG' and then they're processable using MKMAPHK1.

On another note: I was overcome by real work today. Putting CONV100D out is now on tomorrow's agenda. Apologies for that, but I had to beat on a problem that helps pay for the ham radios.

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk

* to astronauts, and smile

296. re: RX desensing

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Wed, 15 Nov 95 09:14:35 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511151506.JAA32583@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

What follows is a preliminary, unscientific bench test of the DCI-146-4H Intermod filter. Cost is \$89, can be obtained from AES. Please draw your own conclusions. Note: I didn't notice any keyboard comments about a band opening last night, so I assumed there wasn't one.

Beacons heard 1700L/Nov13 to 0700L/Nov 14 taken from "A"list without Intermod filter:
6

Beacons heard 1700L/Nov14 to 0700L/Nov 15 taken from "A"list with Intermod filter:
65

No, I don't believe it either. Will keep testing.

--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W

297. chicago gates

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 15 Nov 1995 09:06:08 -0600
To: aprssig@tapr.org
Message-ID: <199511151506.JAA10613@OAMPC10.csg.mot.com>
Rendered body type: text/plain

Ed,

Yes Jerry and I have an arrangement that seems to be working so far. Currently we are both gating hf <-> vhf. Since we are located some 20 miles apart we think there will be little problems. I have good coverage to the north side of the chicago area, and Jerry, N9VHW, has good coverage to the west (and maybe south). What we don't know currently is when a gate comes in on hf with VIA GATE,WIDE, which WIDES are we each hitting. We don't want to hit the same WIDE as that would be redundant, but there does not seem to be a good consistent WIDE that covers a large area with a good receiver. As recently as a couple of weeks ago I could hit 3 WIDES direct from my house. Currently I can hit only 1 WIDE. with less than 10 watts, or 2 WIDES with more than 10 watts. (Bob: I have bounced back and forth between 4 w, 10w, and 30w several times in the last couple of days trying to determine what is best. I am currently at 10w.) I believe (correct me if I am wrong Jerry) that Jerry finds something similar. We are also finding that when receiving on hf, sometimes Jerry can copy the station and sometimes I can. The percent of the time that we both copy the hf station (particularly the weak and OFF FREQ ones) is actually much less than 100%.

Where we stand today is with N9VHW GATE covering the west and WD9ABE GATE covering the north, with hopefully little overlap on the WIDES being hit. So...from the chicago area if you want to get out on hf, just VIA WIDE,GATE will do it no matter where you are, perhaps except for the south side. Does this come to the logical conclusion that we need a GATE on the south side that does not overlap with the existing two?

Paul, WD9ABE

>
>>Hi Ed,
>>
>>My name is Paul, WD9ABE. I see that you are quite well engaged in aprs in
>>the chicago area. If you have looked at aprs in the last couple of months,
>>you will find that I have been on the air steady. I have also found that
>>there was an hf to vhf gate operating (his call escapes me right now) but

>>has been off of the air for a few weeks. I am currently gating hf to vhf,
>>with plans to add vhf to hf, hopefully this weekend. My big question
>>is...am I out of line in doing this? Is there a coordinator that I should
>>be going through?
>>
>> It seems as though in the spirit of ham radio, we should all cooperate.
>>Since I have the equipment and interest, I think I am in a good position to
>>do the gate, but don't want to congest the channel or step out of bounds
>>from a coordination standpoint. What do you suggest?
>>
>>Paul, WD9ABE
>>
>>
>Hi Paul,
>
>I think I saw some traffic between U and Jerry, N9VHW the other day so it
>looks like U got it worked out.
>Thanks for running the gate for us, It helps to see what others are doing
>with the system.
>Hope you can make the NIAN meeting next saturday, check the WEB page
><http://tbcnet.com/~davidc/aprs.html>
>for info and directions
>73
>Ed
>N9LCI>
>

298. RE: [APRSSIG:4416] Re: WIDE BT string

From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Date: Wed, 15 Nov 1995 09:17:42
To: aprssig@tapr.org
Message-ID: <199511151417.JAA22416@manny.rcinet.com>
Rendered body type: text/plain

To convert from Log base 10 to Log base 2, simply devide Log 10 of the
number by Log 10 of 2.

In other words, the H cooefficient in #PHG = [Log 10(HAAT/10)]/Log 10(2).

But why bother, APRS will figure this out for you anyway. Just remember to
use height above average terain and not your elevation above sea level.

Later!

Rick, KB8DNR

On Tue, 14 Nov 1995 22:12:49 -0600,
aprssig@tapr.org wrote...

>
>On Tue, 14 Nov 1995, John B. Leonard wrote:
>
>> I need a clarification...
>> In the DIGI.txt, it sez that the height calculation to put into the BT
is
>> "Log 2(HAAT/10)". Now is this Log to the base 2, rather than Log base
10?
>
>APR REPLY. Yes, Log to the base 2. Or inother words.....
>
> 10 ft =0
> 20 ft =1
> 40 ft =2
> 80 ft =3
> 160 ft =4
> 320 ft =5
> 640 ft =6
> 1280 ft =7
> 2560 ft =8
> 5120 ft =9
>
>

Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

299. Re: GARMIN 45

From: "robert marley" <marley@lu.lincoln.edu>
Date: Wed, 15 Nov 95 12:28:48 +0000
To: aprssig@tapr.org
Message-ID: <marley.1166826168B@lu.lincoln.edu>
Rendered body type: text/plain

Hello again, i am still working on interfacing my computer to my garmin 45 hand held. Using the program garmin.exe, the gps will recieve the commands, but the computer will not acknowledge the data return. I am using a db9 connector and using pins 2 & 3 for data transfer and recieve. Even when hooking up a sig gnd it did not make a difference.

If anyone has hooked up the 45 can lend me a hand, It would be appreciated. Also does anyone use the Garmin windows program? I downloaded the gardown7.zip and unpacked it, same problem..

Thanks, N3OBQ
MARLEY@LU.LINCOLN.EDU

300. 100K Maps

From: ke4eer@ro.com (William Nolle)
Date: Wed, 15 Nov 1995 10:20:31
To: aprssig@tapr.org
Message-ID: <199511151728.LAA17505@sh1.ro.com>
Rendered body type: text/plain

I have just posted an updated ALAFTRO3.ZIP and a README.ALA. This file has a few additional maps, but mainly the reason for a new upload is that i had to split up the MAPLIST.ALA into MAPLIST.ALN & MAPLIST.ALS since there is a limitation with APRS that you can have no more then 170 maps in one maplist, this is a bummer but a fact of life i guess. Don't forget to also D/L the README.ALA.

Bill KE4EER
ke4eer@ro.com

301. GPS pre-amps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 15 Nov 1995 12:44:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951115123100.5238D-100000@greatlakes>
Rendered body type: text/plain

I was trying to get enuff GPS signal to drive a spectrum analyzer. I placed my normal GPS/LNA antenna at the focus of a 1 meter dish (to isolate one satellite from another and also give me about 20 dB gain). I still needed more gain to drive the spectrum Analyzer so I bought a radio shack satellite line amp (500 to 1450 MHz) but it does roll off quite a bit at 1575. I still cant get the signal high enough.

Does anyone know of a source for off-the-shelf 1.6 GHz line amplifiers or pre-amps? With coax fittings in and out? (and also some bandpass filters for 1.6 GHz)

Thanks!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

302. Re: [APRSSIG:4408] Re: 100K Maps

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 15 Nov 1995 08:41:01 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511150804.C9744-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Are the "miles" in APRS Nautical Miles or Statute Miles? The former are 15% larger than the latter. Perhaps you accepting the earth oblateness shortening the distance between geodetic arc minutes at mid latitudes?

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Tue, 14 Nov 1995, Bob Bruninga wrote:

>

> APR REPLY: Dont even bother with a grid. Just chhose map centers every

> 2 minutes of latitude and 2 minutes of longitude. This gives you a
> grid. Remember that a "1 mile" APRS map is 1 mile out from the center,
> or 2 miles on a side. And 2 miles is 2 minutes of LATITUDE. The

303. Re: [APRSSIG:4407] Re: PK-232MBX STA stays on

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 15 Nov 1995 08:32:35 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511150852.B9744-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Following the thread, I am confused. The STA light and the DCD light are two different things.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Tue, 14 Nov 1995, Phil Keys wrote:

> Bob Bruninga, WB4APR, hit the nail on the head. The TNC had been set up
> for Pactor and (I'm told) the DCD light stays on all the time (is
> ignored?). Turning down the DCD threshold until the DCD light went out was
> the answer. The TNC then can transmit. With the DCD light on, it always
> thinks the channel is busy and never transmits.
>
> Thanks all
> Phil Keys
>
> >I have just brought up APRS 7.2D on HF for the first time using an AEA
> >PK-232MBX. Everything seems to be working except that the STA light on the
> >PK-232MBX is all on the time. I think this keeps the TNC from
> >transmitting. Any ideas why it stays on?
>

304. Re: [APRSSIG:4423] GPS pre-amps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 15 Nov 1995 12:44:01 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511151844.MAA23001@solar.cs.tamu.edu>
Rendered body type: text/plain

M/A-COM. They're the standard. Go there and see what they can come up with.
I'll try to check post-class and see if I can get you a model no. and/or
apoint of contact.

How much gain?

gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

305. GPS pre-amps

From: Paul Leonard <pnl@sgs.com>
Date: Wed, 15 Nov 95 11:16:06 -0800
To: aprssig@tapr.org
Message-ID: <QQzpZr22657.199511151948@relay5.UU.NET>
Rendered body type: text/plain

>I was trying to get enuff GPS signal to drive a spectrum analyzer.
>. . . I still cant get the signal high enough.
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

You may have enough signal, but not sufficient signal to noise. Since
the GPS signal is spread spectrum, you could have enough usable signal
without being able to detect it on the spectrum analyzer. You need a
VERY low noise amplifier rated at the frequency you want to use.
The signal will look like a hump in the noise floor.

Hope this helps. 73

/ Paul N. Leonard pnl@sgs.com / KE6PIJ Santa Clara ARES/RACES /
/_ Semi-Gas Systems, Inc. /_ ke6pij@sgs.com /_
/ 625 Wool Creek Drive / ke6pij@n0ary.#nocal.ca.usa.noam /

306. RE: [APRSSIG:4418] re: RX desensing

From: Willson Flor <willf@rrgroup.com>
Date: Wed, 15 Nov 1995 13:51:06 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3951115135107AU004C00@rrgroup3>
Rendered body type: text/plain
From: John B. Leonard[SMTP:jleonard@tbcnet.com]
Sent: Wednesday, November 15, 1995 11:28AM
To: aprssig@tapr.org
Subject: [APRSSIG:4418] re: RX desensing

-- [From: * EMC.Ver #2.5.02] --

What follows is a preliminary, unscientific bench test of the DCI-146-4H Intermod filter. Cost is \$89, can be obtained from AES. Please draw your own conclusions. Note: I didn't notice any keyboard comments about a band opening last night, so I assumed there wasn't one.

Last night I was able to hear the 146.91 repeater in Crown Point, Indiana from my car while driving around in Waukesha County, Wisconsin, so yes there was a band opening of sorts.

Beacons heard 1700L/Nov13 to 0700L/Nov 14 taken from "A"list without Intermod filter:
6

Beacons heard 1700L/Nov14 to 0700L/Nov 15 taken from "A"list with Intermod filter:
65

No, I don't believe it either. Will keep testing.

--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W

73 de KB9JTT

307. Re: [APRSSIG:4417] Re: 100K DLG Dozens of files???

From: Barbara Fehner <fehner@cts.com>
Date: Wed, 15 Nov 95 12:13 PST
To: aprssig@tapr.org
Message-ID: <m0tFoCy-000V0MC@mailhub.cts.com>
Rendered body type: text/plain

I'll try this question again. Which internet .dlg file has the airport data in it?

Barbara KK6IB
E-Mail: fehner@cts.com

At 11:36 PM 11/14/95 -0600, you wrote:
>Once again!
>
>When downloading the files from the USGS FTP site, there *IS* a system.
>
>1. You want "optional" format files. So, get the ones that are
>something.opt.gz
>
>2. In general terms, you want transportation. There are 3 types. the MTF
>files have little of value. forget them.
>
>the RRF files are rail info. They can be useful and are not too big. But
>they are not usually of primary interest.
>
>The RDF files are the ROADS. Get them.
>
>

```
>73, gerry
>--
>Gerry Creager N5JXS * SAREX Co-Investigator
>gerry@cs.tamu.edu * A little radio that lets kids talk
> * to astronauts, and smile
>*****
>
```

308. Re: [APRSSIG:4420] Re: WIDE BT string

```
From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Wed, 15 Nov 95 14:17:20 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511152009.0AA01960@tbc2.tbcnet.com>
Rendered body type: text/plain
```

```
-- [ From: * EMC.Ver #2.5.02 ] --
```

```
----- REPLY, Original message follows -----
```

```
> But why bother, APRS will figure this out for you anyway. Just remember
to
> use height above average terrain and not your elevation above sea level.
>
```

```
----- REPLY, End of original message -----
```

Ok, now i'm really confused! I thot the reason that we had to go thru all these math calculations is so that when we tell a wide what to put in it's BT, that is was to tell the receiving APRS station how to interpret the info it gets.

.....uh, maybe there's an email miscommunication here. I'm the guy that is telling the TNC at the Wide site what to say.

Anywho, the HAAT of the tower base is minus 16 meters (I asked the station engineer). Converted to ftoots, I get -52.4', plus 180' for the antenna, gives me 127.5' HAAT for the antenna. Using the figures Bob sent last night, I get:

```
Pwr =10W      = 3
127.5' HAAT = 3 (conservative)
Gain=6dB      = 6
Omni          = 0
```

```
PHG = 3360
Am I right?
```

```
--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W
```

309. Re: [APRSSIG:4423] GPS pre-amps

```
From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 15 Nov 1995 14:53:45 -0600
To: aprssig@tapr.org
Message-ID: <199511152053.0AA13940@OAMPC10.csg.mot.com>
Rendered body type: text/plain
```

```
>Does anyone know of a source for off-the-shelf 1.6 GHz line amplifiers or
>pre-amps? With coax fittings in and out? (and also some bandpass
>filters for 1.6 GHz)
>
>Thanks!
>
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
```

I have seen spectrum analyzers with noise figures 30dB over KTB!! You need good take over gain, or, a better receiver.

Paul, WD9ABE

310. Re: receiver desense

From: JeffS5@aol.com
Date: Wed, 15 Nov 1995 14:16:54 -0500
To: aprssig@tapr.org
Message-ID: <951115141622_23327954@mail06.mail.aol.com>
Rendered body type: text/plain

Beware of neat stuff with "to-good-to-be-true" prices. And \$89.00 for a front-end filter is a definate suspect.

The helicals that I've played with on UHF can get extremely narrow with reject levels in excess of -40db easy. But with filters, you really do get what you pay for. Most of the cheap cavities & helicals that I've seen and tested over the years tend to drift terribly, and the tuning slugs quickly get noisy and add further de-tuning or noise to the system. The helicals that I was working with were made from copper plate. I could almost sweep them at a few KHz and tell what the temp of that filter was at any given time. If this filter is a bandpass to keep out the commerical band, and you're using it in a temp controlled enviroment, you might be OK. If at all possible, sweep the thing, lose 2db and flatten it out a bit rather than try and peak it on your rx channel and take the chance of losing -6+db when it drifts. If it's a notch, check it carefully.

Other than that, go to ham swapmeets. Out here there are various commerical VHF & UHF cavities for sale all the time for less than \$90.00, and they're in excellent shape. Got lots o' dough? Open the Cellwave catalogue.

?? Anyone had a chance to sweep this \$89.00 wonder and really see what it does??

73' Jeff

311. RE: [APRSSIG:4430] Re: WIDE BT string

From: "Richard L. Holbert" <rhobert@manny.rcinet.com>
Date: Wed, 15 Nov 1995 16:25:01
To: aprssig@tapr.org
Message-ID: <199511152125.QAA25229@manny.rcinet.com>
Rendered body type: text/plain

Yes, your math is correct and I'm sorry if I confused you, but here's how to get APRS to do the math for you:

Hit {I} to go to the Inputs Menu

Hit {P} to select PwrHtGain

APRS should then prompt you for your power in Watts, HAAT in feet, antenna gain in dB, and directivity in degrees.

APRS will then compute the #PHG coeeficients for you and place them into the APRSXX.CFG file in the root directory. Now APRS will report your #PHG to other stations.

I hope this helps to clear up some of the confusion.

On Wed, 15 Nov 1995 14:25:36 -0600,
aprssig@tapr.org wrote...

>-- [From: * EMC.Ver #2.5.02] --

>

>

>----- REPLY, Original message follows -----

>

>> But why bother, APRS will figure this out for you anyway. Just remember
>to

>> use height above average terrain and not your elevation above sea level.

>>

>

>----- REPLY, End of original message -----

>

>Ok, now i'm really confused! I thot the reason that we had to go thru
all

>these math calculations is so that when we tell a wide what to put in it's

>BT, that is was to tell the receiving APRS station how to interpret the

>info

>it gets.

>

>.....uh, maybe there's an email miscommunication here. I'm the guy

>that is telling the TNC at the Wide site what to say.

>

>Anywho, the HAAT of the tower base is minus 16 meters (I asked the station
>engineer). Converted to fouts, I get -52.4', plus 180' for the antenna,
>gives me 127.5' HAAT for the antenna. Using the figures Bob sent last
>night
>, I get:
>
>Pwr =10W = 3
>127.5' HAAT = 3 (conservative)
>Gain=6dB = 6
>Omni = 0
>
>PHG = 3360
>Am I right?
>
>
>
>
>--
>Barry Leonard
>N9VJQ
>DeKalb IL
>Packet: N9VJQ@WB9SLE.IL.USA.NOAM
>E-MAIL: jleonard@tbcnet.com
>EN510W
>
>

Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: http://www.dma.org/~holbertr

312. Re: [APRSSIG:4421] Re: GARMIN 45

From: rkramer@cdx.net (Ronald Kramer)
Date: Wed, 15 Nov 1995 22:27:12 GMT
To: aprssig@tapr.org
Message-ID: <199511152228.QAA06653@sys1.tapr.org>
Rendered body type: text/plain

On Wed, 15 Nov 1995 12:08:15 -0600, you wrote:

>Hello again, i am still working on interfacing my computer to my garmin 45
>hand held. Using the program garmin.exe, the gps will recieve the
>commands, but the computer will not acknowledge the data return. I am using
>a db9 connector and using pins 2 & 3 for data transfer and recieve. Even
>when hooking up a sig gnd it did not make a difference.
>
>If anyone has hooked up the 45 can lend me a hand, It would be appreciated.
>Also does anyone use the Garmin windows program? I downloaded the
>gardown7.zip and unpacked it, same problem..
>
> Thanks, N3OBQ
> MARLEY@LU.LINCOLN.EDU

Hi Marley... well The Gardown7 works fine here,
1. make shure that you have cable configured corectly
you may need to use a null modem adapter.
2. in the Garmin i/o menu select garmin/garmin
3. then select sent trk, will show 0 of 764 ready to send or
some similar on garmin lcd screen
4. you must do the above first before you run gardown7 else
it wont work.
5. type on the computer
gardown7 t s1 > tracktst.txt and enter.
T stands for track
S1 for comport 1 if comport 2 use S2
> means to redirect output from garmin from screen to file
tracktst.txt or whatever file name you want to give it.
6. at this point you should see the lcd screen on the garmin
begin to count up to the total points it stored in its memory.
7. when gardown7 finishes it will return you to the normal
dos prompt.
8. Have fun...

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

313. Re: [APRSSIG:4429] Re: 100K DLG Dozens of files???

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 15 Nov 1995 16:27:48 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511152227.QAA27922@solar.cs.tamu.edu>
Rendered body type: text/plain

Barbara Fehner sez:

>
> I'll try this question again. Which internet .dlg file has the airport data
> in it?

None, that I've seen, although the MTF files should be the likely ones.

gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

314. Re: [APRSSIG:4421] Re: GARMIN 45

From: alanwc7r@primenet.com (Alan Unangst)
Date: Wed, 15 Nov 1995 15:36:46 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511152236.PAA26993@usr3.primenet.com>
Rendered body type: text/plain

Some time back I put the complete instructions on the aprssigs. This
constructionn works beautifully. If you can't find it let me know and I'll
Email it to you.

73, Alan, wc7r

At 01:46 PM 11/15/95 -0600, robert marley wrote:

>Hello again, i am still working on interfacing my computer to my garmin 45
>hand held. Using the program garmin.exe, the gps will recieve the
>commands, but the computer will not acknowledge the data return. I am using
>a db9 connector and using pins 2 & 3 for data transfer and recieve. Even
>when hooking up a sig gnd it did not make a difference.
>

>If anyone has hooked up the 45 can lend me a hand, It would be appreciated.
>Also does anyone use the Garmin windows program? I downloaded the
>gardown7.zip and unpacked it, same problem..

>
> Thanks, N30BQ
> MARLEY@LU.LINCOLN.EDU
>
>

315. Re: [APRSSIG:4432] Re: receiver desense

From: rwf <rwf@mindspring.com>
Date: Wed, 15 Nov 1995 17:56:19 -0500
To: aprssig@tapr.org
Message-ID: <199511152256.RAA15694@borg.mindspring.com>
Rendered body type: text/plain

At 03:09 PM 11/15/95 -0600, Jeff said:
>Beware of neat stuff with "to-good-to-be-true" prices. And \$89.00 for a
>front-end filter is a definate suspect.

I beg to differ..

They are not helicals, as you are used to in front ends of radios.

I have known Ralph Olds, the fellow behind DCI, for about 4 years. I have
been a customer
of his as well. Prior to the bandpass filter, he developed
a Digital Doice Recorder board for adding voice mail to repeaters using a
PC. The board was
great and was about 169.00 I think. It had multiple mailboxes and did
everything the DVRs for
that you hear on all repeaters do- only it didn't cost 1000.00.

I say this only because I think the guy is fair and not out to give anyone
a bad deal.

I am an owner of multiple (12) voice repeaters and an ATV repeater and because of that, Ralph contacted me when he was thinking of releasing the filter. I told him it wouldn't fly... too expensive at 160-199 bucks. So he went back and designed it to be cheaper to build. Now it is out for 89.00, well below the "impulse hamfest buyer's ceiling" of 99.95 that I think of.

It is *NOT* a pass cavity, and the tuning is coarse and covers a ham band, not an exact frequency.
If you want to pass (or notch) a particular freequency, go buy a cavity from TX RX or Wacom or whoever. If you want to pass a section of spectrum, try one of these type of filters.

Since many hams seem to whine: "Why can't I receive the Police and weather on my ham rig", the manufacturers are only too happy to oblige us. They simply leave off the front end of the receiver. Now we can pay DCI to make our receivers do what they should be doing... being selective.

Again, I haven't tested it, but knowing what I know about these types of filters, you should see a pattern like this on the 2 meter one. Hope the drawing comes out ok.



rwf@mindspring.com Atlanta, GA USA
 Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
 FTP: <ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info
 APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

The rest of Jeff's message.:

>
>The helicals that I've played with on UHF can get extremely narrow with
>reject levels in excess of -40db easy. But with filters, you really do get
>what you pay for. Most of the cheap cavities & helicals that I've seen and
>tested over the years tend to drift terribly, and the tuning slugs quickly
>get noisy and add further de-tuning or noise to the system. The helicals
>that I was working with were made from copper plate. I could almost sweep
>them at a few KHz and tell what the temp of that filter was at any given
>time. If this filter is a bandpass to keep out the commerical band, and
>you're using it in a temp controlled enviroment, you might be OK. If at all
>possible, sweep the thing, lose 2db and flatten it out a bit rather than try
>and peak it on your rx channel and take the chance of losing -6+db when it
>drifts. If it's a notch, check it carefully.
>
>Other than that, go to ham swapmeets. Out here there are various commerical
>VHF & UHF cavities for sale all the time for less than \$90.00, and they're in
>excellent shape. Got lots o' dough? Open the Cellwave catalogue.
>
>?? Anyone had a chance to sweep this \$89.00 wonder and really see what it
>does??
>
>73' Jeff
>
>

316. Re: [APRSSIG:4419] chicago gates

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 15 Nov 1995 19:06:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951115190345.11948B-100000@greatlakes>
Rendered body type: text/plain

On Wed, 15 Nov 1995, Paul Moller wrote:

> Yes Jerry and I have an arrangement that seems to be working so far.
> Currently we are both gating hf <-> vhf. Since we are located some 20 miles
> apart we think there will be little problems. I have good coverage to the
> north side of the chicago area, and Jerry, N9VHW, has good coverage to the
> west (and maybe south). What we don't know currently is when a gate comes in

APRS ANSWER: You might consider a small 2 or 3 element beam to favor the
North WIDE for the north GATE, and the western most WIDE for the west
gate...

317. Re: [APRSSIG:4424] Re: 100K Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 15 Nov 1995 19:12:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951115191031.11948C-100000@greatlakes>
Rendered body type: text/plain

On Wed, 15 Nov 1995, William Manley wrote:

> Are the "miles" in APRS Nautical Miles or Statute Miles? The former are
> 15% larger than the latter. Perhaps you accepting the earth oblateness
> shortening the distance between geodetic arc minutes at mid latitudes?

The only place it makes any difference is in the MAPS-PLOTS-RANGE
command. And there it shows the range in Statute. More or less, the
range scales are Nautical...

318. Re: [APRSSIG:4430] Re: WIDE BT string

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 15 Nov 1995 19:20:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951115191551.11948D-100000@greatlakes>
Rendered body type: text/plain

On Wed, 15 Nov 1995, John B. Leonard wrote:

>
> Anywho, the HAAT of the tower base is minus 16 meters (I asked the station
> engineer). Converted to fouts, I get -52.4', plus 180' for the antenna,
> gives me 127.5' HAAT for the antenna. Using the figures Bob sent, I get:
>

```
> Pwr =10W      = 3
> 127.5' HAAT   = 3 (conservative)
> Gain=6dB      = 6
> Omni         = 0
>
> PHG = 3360.    Am I right?
```

APR REPLY. YES, unless there is some masking terrain. Even tho you have an OMNI antenna, your pattern may favor a given direction. If so, then you should give a directivity value in that direction.

= OR = If you have a single BAD direction, then use a directivity direction in the OPPOSITE direction.

APRS uses the DIRECTIVITY value to offset the range circle in the given direction.

319. Re: [APRSSIG:4433] Re: WIDE BT string

```
From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Wed, 15 Nov 95 18:47:00 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511160039.SAA04401@tbc2.tbcnet.com>
Rendered body type: text/plain
-- [ From: * EMC.Ver #2.5.02 ] --
```

I tried it and it works great. Thanks.
----- REPLY, Original message follows -----

```
> Date: Wednesday, 15-Nov-95 03:29 PM
>
> From: Richard L. Holbert      \ Internet:    (rholbert@manny.rcinet.com)
> To:   APRS SIG               \ Internet:    (aprssig@tapr.org)
>
> Subject: [APRSSIG:4433] Re: WIDE BT string
>
> Yes, your math is correct and I'm sorry if I confused you, but here's how
to
> get APRS to do the math for you:
>
> Hit {I} to go to the Inputs Menu
> Hit {P} to select PwrHtGain
> APRS should then prompt you for your power in Watts, HAAT in feet, antenna
> gain in dB, and directivity in degrees.
>
> APRS will then compute the #PHG coefficients for you and place them into
the
> APRSXX.CFG file in the root directory. Now APRS will report your #PHG to
> other stations.
>
> I hope this helps to clear up some of the confusion.
```

----- REPLY, End of original message -----

```
--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W
```

320. Re: [APRSSIG:4432] Re: receiver desense

```
From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Wed, 15 Nov 95 18:47:09 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511160039.SAA04409@tbc2.tbcnet.com>
Rendered body type: text/plain
-- [ From: * EMC.Ver #2.5.02 ] --
```

----- REPLY, Original message follows -----

```
> Date: Wednesday, 15-Nov-95 03:09 PM
>
> From: JeffS5@aol.com          \ America On-Line: (JeffS5)
```

```
> To: APRS SIG \ Internet: (aprssig@tapr.org)
>
> ?? Anyone had a chance to sweep this $89.00 wonder and really see what it
> does??
>
> 73' Jeff
>
```

----- REPLY, End of original message -----

No, but I just might and I'll let you know.

```
--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W
```

321. Intermod Filter

```
From: Paul Leonard <pnl@sgs.com>
Date: Wed, 15 Nov 95 17:11:00 -0800
To: aprssig@tapr.org
Message-ID: <QQzqan01314.199511160118@relay5.UU.NET>
Rendered body type: text/plain
```

I just got my December 1995 QST, and on page 191 is the ad for the DCI-146-4H 2-meter intermod filter. All the specs are there regarding power, bandwidth, loss, etc. It looks like a great deal, especially at \$89.00.

```
/ Paul N. Leonard pnl@sgs.com / KE6PIJ Amateur Radio Emergency Service /
/_ Semi-Gas Systems, Inc. /_ ke6pij@sgs.com /_
/_ 625 Wool Creek Drive / ke6pij@n0ary.#nocal.ca.usa.noam /
/_ San Jose, CA 95112 / CompuServe: 72477,774 /
```

322. Re: [APRSSIG:4437] Re: receiver desense

```
From: Bob Wilkins n6fri <rwilkins@uhf.org>
Date: Wed, 15 Nov 1995 17:59:02 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951115160350.13071A-100000@ccnet3>
Rendered body type: text/plain
```

On Wed, 15 Nov 1995, rwf wrote:

```
> I haven't tried one yet, but have no doubt that it works. It is a simple
> "interdigital bandpass filter"
> well not really interdigital because that implies a pair of hands with
> fingers interleaved. In his, the "fingers"
> all come from one side. We use them all the time at commercial sites ahead
> of receiver multicouplers,
> which are used to allow many receivers to share one antenna. The filter is
> used to pass a
> section of band, say 4-6 MHz and roll off everything else. Those of you
> into ATV may recognize it
> as a "VSB" (Vestigial Side Band) filter, or as 1/2 of an inband ATV duplexer.
> It does a great job
> of attenuating the Lower sideband of an AM ATV signal. They are using these
> filters to protect the equipment that.....
```

An other name for this type of device is a "window filter". The window in this filter is the entire two meter ham band. Several hams in the area have purchased these filters and have reduced the pager intermod into their typical dual band h-t. Now they can use a roof top antenna with out intermod and desence from out of band signals. These are excellent for ares races or weather nets or any type of requirement that needs to use frequencies all over the band. This filter will not help with strong amateur signals in the same band.

Once hams see these filters in action, they want one. Check it out.

```
> It is *NOT* a pass cavity, and the tuning is coarse and covers a ham band,
> not an exact frequency.
> If you want to pass (or notch ) a particular freequency, go buy a cavity
> from TX RX or Wacom or
```

> whoever. If you want to pass a section of spectrum, try one of these types
> of filters.

The folks operating a WIDE-RELAY digipeater at a communications site or close to high rf should use a pass cavity. The pass cavity only allows signals on the frequency to pass through to the receiver. This filter would look like a mountain peak rather than the flat top mesa of the window filter. The steeper the slope the better the filter.

If there is a kw 152 MHz pager at the wide-relay site, you may need an additional notch cavity tuned to the 152 pager frequency. You can attenuate or notch out a single frequency 500 kHz or greater from your receive frequency. Many of the commercial duplexer catalogues have charts and a small section on the theory and common uses of these devices.

Using pass cavities in simplex vhf amateur radio is not uncommon. Try one next time you contest. They tune up real easy if you have a bird thru-line watt meter, tune for maximum forward smoke. You will be able to hear the weak ones as the noise floor of the receiver has been lowered. I know of several serious satellite enthusiasts who could not operate without a pass cavity ahead of the preamp and receiver.

For home use you can't beat these new window filters for general operations.

The HAAT for a commercial site is on each license, posted on the equipment or on file at the site owners office.

Bob n6fri

| | | |
|----------------------|------|--------------------------------|
| Bob Wilkins | home | n6fri@uhf.org |
| Berkeley, California | work | bwilkins@cave.org |
| 94712-2354 | play | n6fri@n6eeg.#nocal.ca.usa.noam |

323. Greensboro Hamfest Press Release

From: n4byu@nr.infi.net (Roy Smith)
Date: Wed, 15 Nov 1995 23:38:04 -0500
To: aprssig@tapr.org, Michael Walker <mwalker@gold.interlog.com>
Message-ID: <199511160438.XAA18670@moe.infi.net>
Rendered body type: text/plain

>Return-Path: smarks@nr.infi.net
>Date: Thu, 9 Nov 1995 23:04:34 -0500
>X-Sender: smarks@mailhost.infi.net
>To: AA5AQ@aol.com
>From: smarks@nr.infi.net (Steve Marks)
>Subject: Greensboro Hamfest Press Release
>Cc: bboyas@nr.infi.net, benson@ncat.edu, bfjames@nr.infi.net,
> Cliff@vortex.pdial.interpath.net, dbrewer@nr.infi.net,
> dkbodman@infi.net, DUTCHSTAR@aol.com, errol@interpath.net,
> fireman19@aol.com, gdsms@nr.infi.net (Carl Fenske), GSmith@sunbelt.net,
> jbone@vnet.net, "Jerry D. Stuckle" <74431.3450@compuserve.com>,
> jlambdin@nr.infi.net, jmaynard@netpath.net,
> kn4aq.gary@mms.raleigh.nc.us, LtCagle@aol.com, MATTHEWSGE@aol.com,
> n4byu@nr.infi.net, PERRIELLO@delphi.com, rgibson@nr.infi.net,
> taurus1@nr.infi.net, travisb@nr.infi.net, wa3rtc@nr.infi.net,
> WVZV97A@prodigy.com
>
>The Greater Greensboro Hamfest
>Saturday, December 2, 1995
>9:00 am to 3:00 pm
>Greensboro Coliseum
>
>
>
>We are pleased to announce that two amateur radio public service related
>seminars will be held at this year's Greater Greensboro Hamfest. Please
>help us spread the word about these two important events:
>
>
> Beginning at 10:00 am, please join us for the Skywarn and National
>Weather Service Forum, hosted by Steve Marks, KE4FCW, Triad Skywarn
>Coordinator and Mike Emlaw, N5YDQ, Warning Coordination Meteorologist from
>the National Weather Service. Steve and Mike will discuss the transitions
>effecting both the Skywarn program and the National Weather Service, and
>the importance of Skywarn Spotters. Come see overlays of the new Doppler
>radar and storm videos!
>
>
> Beginning at 11:00 am, please join us for the Amateur Radio

>Emergency Service Forum, hosted by John Matlock, KE4IAM, Emergency
>Coordinator, Guilford County ARES. Special guests will include: Roger
>Paxton, KB4BME, District Emergency Coordinator, Billy Mitchell, WB4SGA,
>Section Emergency Coordinator, and Reed Whitten, AB4W, Section Manager.
>Come meet the leaders of the ARES community and learn more about how you
>can participate in this important public service organization!
>
>
>
>Pre-registered Volunteer Exams by the Greensboro W5YI VE-Team will also be
>available this year at the Greater Greensboro Hamfest. The deadline for
>registration is Saturday, November 25. Check in for the amateur radio
>license exams will be at 12:00 noon with testing beginning at 1:00 pm. For
>more information, contact Charles Layno, WB4WOR, at (910) 288-3635.
>
>The Greater Greensboro Hamfest will be held at the Greensboro Coliseum,
>Special Events Center, located off Patterson Street near the intersection
>of West Lee Street. Talk-in will be on 145.25 MHz and 145.29 MHz.
>Admission is \$5.00 in advance, \$6.00 at the door. Parking is \$1.00 in
>advance, \$3.00 at the gate. Pre-register by Wednesday, November 22 and
>save \$3.00! For more information about the Greater Greensboro Hamfest,
>contact Fred Redmon, N4GGD at (910) 852-9244.
>
>
>PLEASE SHARE THIS WITH OTHER INTERESTED PARTIES! TNX... Steve
>
>*****
>Steve Marks
>
>Training & Operations Officer Triad Skywarn Coordinator
>Guilford College Fire Dept Internet: smarks@nr.infi.net
>Greensboro, North Carolina Packet: KE4FCW @ WB4WOR.#GS0.NC.USA.NOAM
>*****
>
>
>
>

324. Re: [APRSSIG:4437] Re: receiver desense

From: rwf <rwf@mindspring.com>
Date: Thu, 16 Nov 1995 00:40:38 -0500
To: aprssig@tapr.org
Message-ID: <199511160540.AAA03698@borg.mindspring.com>
Rendered body type: text/plain

I need to correct one thing on what I said.

The 2 m version of the DCI filter does have helixes inside, so it is
"Helical". It was the 440 one that is like an interdigital filter.
It still works the way I said, though.

And the attenuation just outside the ham band on the 2m one is
more like 40-50 db rather than the 30 db I estimated.

I've been hearing fantastic reports on their performance.

And... from a Ham tenant on many commercial sites, please consider this
piece of advice:

I hope that those of you putting Digis up are
not planning to use any kind of filter (whether it is a notch, a pass, or
one of these
"windows 95 " filters :) just to compensate for the poor practice of putting
Ham Equipment at any commercial site (or any hostile environment for that
matter)
Find a commercial surplus unit if you can. You will lose a lot less hair.
And your co-tenants
will point a lot less fingers at you. Go ahead, spend the 50 bucks for a
Mitrek, Micor, or Master II
or similar commercial radio and use it. Save the ham rig for the shack
or your car.

Ralph

325. [APRSSIG:4445] Greensboro Hamfest Press Release

From: n4byu@nr.infi.net (Roy Smith)
Date: Thu, 16 Nov 1995 00:53:43 -0500

To: aprssig@tapr.org, Michael Walker <mwalker@gold.interlog.com>

Message-ID: <199511160553.AAA26893@moe.infi.net>

Rendered body type: text/plain

>Return-Path: aprssig@tapr.org
>Date: Wed, 15 Nov 1995 22:51:18 -0600
>Reply-To: aprssig@tapr.org
>Originator: aprssig@tapr.org
>Sender: aprssig@tapr.org
>Precedence: bulk
>From: n4byu@nr.infi.net (Roy Smith)
>To: aprssig@tapr.org
>Subject: [APRSSIG:4445] Greensboro Hamfest Press Release
>X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
>X-Comment: Tucson Amateur Packet Radio APRS Special Interest Group
>
>>Return-Path: smarks@nr.infi.net
>>Date: Thu, 9 Nov 1995 23:04:34 -0500
>>X-Sender: smarks@mailhost.infi.net
>>To: AA5AQ@aol.com
>>From: smarks@nr.infi.net (Steve Marks)
>>Subject: Greensboro Hamfest Press Release
>>Cc: bboyas@nr.infi.net, benson@ncat.edu, bfjames@nr.infi.net,
>> Cliff@vortex.pdial.interpath.net, dbrewer@nr.infi.net,
>> dkbodman@infi.net, DUTCHSTAR@aol.com, errol@interpath.net,
>> fireman19@aol.com, gdsms@nr.infi.net (Carl Fenske),
GSmith@sunbelt.net,
>> jbone@vnet.net, "Jerry D. Stuckle" <74431.3450@compuserve.com>,
>> jlambdin@nr.infi.net, jmaynard@netpath.net,
>> kn4aq.gary@mms.raleigh.nc.us, LtCagle@aol.com, MATTHEWSGE@aol.com,
>> n4byu@nr.infi.net, PERRIELLO@delphi.com, rgibson@nr.infi.net,
>> taurus1@nr.infi.net, travisb@nr.infi.net, wa3rtc@nr.infi.net,
>> WVZV97A@prodigy.com
>>
>>The Greater Greensboro Hamfest
>>Saturday, December 2, 1995
>>9:00 am to 3:00 pm
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>>
>>
>>We are pleased to announce that two amateur radio public service related
>>seminars will be held at this year's Greater Greensboro Hamfest. Please
>>help us spread the word about these two important events:
>>
>>
>> Beginning at 10:00 am, please join us for the Skywarn and National
>>Weather Service Forum, hosted by Steve Marks, KE4FCW, Triad Skywarn
>>Coordinator and Mike Emlaw, N5YDQ, Warning Coordination Meteorologist from
>>the National Weather Service. Steve and Mike will discuss the transitions
>>effecting both the Skywarn program and the National Weather Service, and
>>the importance of Skywarn Spotters. Come see overlays of the new Doppler
>>radar and storm videos!
>>
>>
>> Beginning at 11:00 am, please join us for the Amateur Radio
>>Emergency Service Forum, hosted by John Matlock, KE4IAM, Emergency
>>Coordinator, Guilford County ARES. Special guests will include: Roger
>>Paxton, KB4BME, District Emergency Coordinator, Billy Mitchell, WB4SGA,
>>Section Emergency Coordinator, and Reed Whitten, AB4W, Section Manager.
>>Come meet the leaders of the ARES community and learn more about how you
>>can participate in this important public service organization!
>>
>>
>>
>>Pre-registered Volunteer Exams by the Greensboro W5YI VE-Team will also be
>>available this year at the Greater Greensboro Hamfest. The deadline for
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>>license exams will be at 12:00 noon with testing beginning at 1:00 pm. For
>>more information, contact Charles Layno, WB4WOR, at (910) 288-3635.
>>
>>The Greater Greensboro Hamfest will be held at the Greensboro Coliseum,
>>Special Events Center, located off Patterson Street near the intersection
>>of West Lee Street. Talk-in will be on 145.25 MHz and 145.29 MHz.
>>Admission is \$5.00 in advance, \$6.00 at the door. Parking is \$1.00 in
>>advance, \$3.00 at the gate. Pre-register by Wednesday, November 22 and
>>save \$3.00! For more information about the Greater Greensboro Hamfest,
>>contact Fred Redmon, N4GGD at (910) 852-9244.
>>
>>

>>PLEASE SHARE THIS WITH OTHER INTERESTED PARTIES! TNX... Steve
>>
>>*****
>>Steve Marks
>>
>>Training & Operations Officer Triad Skywarn Coordinator
>>Guilford College Fire Dept Internet: smarks@nr.infi.net
>>Greensboro, North Carolina Packet: KE4FCW @ WB4WOR.#GSO.NC.USA.NOAM
>>*****
>>
>>
>>
>>
>
>
>

326. Maps in 2min segments

From: dlarsen@spider.lloyd.com (Don Larsen)
Date: Wed, 15 Nov 95 22:25 PST
To: aprssig@tapr.org
Message-ID: <m0tFxxkw-000TrRC@spider.lloyd.com>
Rendered body type: text/plain

Hi to all on the SIG,

A couple of weeks ago someone posted a note about how they put together maps of large areas that were divided into 2 minute blocks. I have been unable to relocate that posting and would like any input that you have. I am currently working on maps for El Dorado County Ca using the makemap program and will share them with all when they are done. Thanks for the help.
Don Larsen N4JOP via packet
dlarsen@spider.lloyd.com N4JOP@KM6PX.NOCAL.CA.USA.NA

PO Box 941
Camino, CA 95709

327. Re: [APRSSIG:4425] Re: PK-232MBX STA stays on

From: philkeys@olympus.net (Phil Keys)
Date: Thu, 16 Nov 1995 08:27:35 -0800
To: aprssig@tapr.org
Message-ID: <v01510101acd0faf2b09e@[198.133.237.59]>
Rendered body type: text/plain

Sorry, I didn't make it clear. STA on means that the TNC has one or more unacknowledged packets waiting to be sent. DCD on means that the TNC has detected incoming packets (has detected carrier from the transceiver). The TNC then won't send outgoing packets until DCD goes off (frequency is clear).

Hope this helps.

Phil

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

328. MKMAPHK1.EXE

From: ke4eer@ro.com (William Nolle)
Date: Thu, 16 Nov 1995 10:26:24
To: aprssig@tapr.org
Message-ID: <199511161732.LAA08575@sh1.ro.com>
Rendered body type: text/plain

Just to let every mapmaker know, there's another bug in MKMAPHK1. If you enter a filename larger than then 8 characters it will let you go through the whole process of making the map and when finished it will let you know there's a filename error. So make sure you use 8 or less characters for a filename.

Bill KE4EER
ke4eer@ro.com

329. Re: [APRSSIG:4443] Intermod Filter

From: cts@direct.ca (Fred Kehler (ve7ipb))
Date: Thu, 16 Nov 1995 08:32:24 -0800
To: aprssig@tapr.org

Message-ID: <v01510100acd1172e11db@[204.174.238.2]>
Rendered body type: text/plain

Hi All, an unsolicited testimonial.....:-)
I rushed out a picked up one of these filters when they first appeared at the local ham supplier, (I have an Alinco DR1200 at exposed location :-() and it totally eliminated out of band interference like pagers and everything else that was keying up within 50 miles!
It's the only way to go.....

> I just got my December 1995 QST, and on page 191 is the ad for
> the DCI-146-4H 2-meter intermod filter. All the specs are there
> regarding power, bandwidth, loss, etc. It looks like a great
> deal, especially at \$89.00.
>

Fred Kehler Clearbrook Technical Services Ltd voice 604 850-3010
Internet: cts@clrtech.com. Amateur Radio TCP/IP: ve7ipb@ve7ipb.ampr.org.

330. Re: [APRSSIG:4421] Re: GARMIN 45

From: "robert marley" <marley@lu.lincoln.edu>
Date: Thu, 16 Nov 95 11:55:05 +0000
To: aprssig@tapr.org
Message-ID: <marley.1166910545A@lu.lincoln.edu>
Rendered body type: text/plain

I just found the problem. It seems that there is not enough logic level when using the Garmin 45 on battery only. I made a power cord (8 pin din worked great) and the levels were strong enough to be read. As to the software, gardown7.zip did work, the garmin.exe did not do so well.

Thanks to all who gave advice and comments. The best way to learn is to ask a question.

73's de N30BQ

>Hello again, i am still working on interfacing my computer to my garmin 45
>hand held. Using the program garmin.exe, the gps will recieve the
>commands, but the computer will not acknowledge the data return. I am using
>a db9 connector and using pins 2 & 3 for data transfer and recieve. Even
>when hooking up a sig gnd it did not make a difference.

>
>If anyone has hooked up the 45 can lend me a hand, It would be appreciated.
>Also does anyone use the Garmin windows program? I downloaded the
>gardown7.zip and unpacked it, same problem..

>
> Thanks, N30BQ
> MARLEY@LU.LINCOLN.EDU
>

331. Re: [APRSSIG:4434] Re: GARMIN 45

From: "robert marley" <marley@lu.lincoln.edu>
Date: Thu, 16 Nov 95 12:02:13 +0000
To: aprssig@tapr.org
Message-ID: <marley.1166910973B@lu.lincoln.edu>
Rendered body type: text/plain

Hi Ron, I found out my problem. The logic levels on the data stream are not high enough when operating on battery. So I made a power cord and it works fine. Gardown7.zip worked great after that.

Thanks for your help!!

73's N30BQ
 Robert Marley

>On Wed, 15 Nov 1995 12:08:15 -0600, you wrote:

>
>>Hello again, i am still working on interfacing my computer to my garmin 45
>>hand held. Using the program garmin.exe, the gps will recieve the
>>commands, but the computer will not acknowledge the data return. I am using
>>a db9 connector and using pins 2 & 3 for data transfer and recieve. Even
>>when hooking up a sig gnd it did not make a difference.
>>
>>If anyone has hooked up the 45 can lend me a hand, It would be appreciated.
>>Also does anyone use the Garmin windows program? I downloaded the
>>gardown7.zip and unpacked it, same problem..

```

>>
>>      Thanks,  N30BQ
>>      MARLEY@LU.LINCOLN.EDU
>
>Hi Marley... well The Gardown7 works fine here,
>1. make shure that you have cable configured corectly
>   you may need to use a null modem adapter.
>2. in the Garmin i/o menu select  garmin/garmin
>3. then select sent trk, will show      0 of 764 ready to send or
>   some similar on garmin lcd screen
>4. you must do the above first before you run gardown7 else
>   it wont work.
>5. type on the computer
>   gardown7 t s1 > tracktst.txt          and enter.
>   T stands for track
>   S1  for comport 1    if comport 2 use  S2
>   > means to redirect output from garmin from screen to file
>   tracktst.txt  or whatever file name you want to give it.
>6. at this point you should see the lcd screen on the garmin
>   begin to count up to the total points it stored in its memory.
>7. when gardown7 finishes it will return you to the normal
>   dos prompt.
>8. Have fun...
>
>
>
>Regards, Ron ...                      73 de Ron
>   Internet: rkramer@cdx.net (Ron Kramer)
>   Packet:  ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
>

```

332. Re: [APRSSIG:4417] Re: 100K DLG Dozens of files???

```

From: dwetzel@acs.uswest.com
Date: Thu, 16 Nov 1995 11:11:46 -0600
To: aprssig@tapr.org
Message-ID: <0ab759d0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```

Once again!

When downloading the files from the USGS FTP site, there *IS* a system.

1. You want "optional" format files. So, get the ones that are something.opt.gz

2. In general terms, you want transportation. There are 3 types. the MTF files have little of value. forget them.

the RRF files are rail info. They can be useful and are not too big. But they are not usually of primary interest.

The RDF files are the ROADS. Get them.

3. The QUAD SHEETS are organized into 2 segments: East and West. The Quads are actually divied into 8 segments.

Segments 1,2,5 and 6 are in Whatever-WEST_State. Segments 3,4,7 and 8 are in Whatever-EAST_State. If you're sure of what QUAD you want, but not which side you're in, get 'em both.

In my area, the files are:

```

AU2.RDF01.opt.gz
AU2.RDF02.opt.gz
AU2.RDF03.opt.gz
AU2.RDF04.opt.gz
AU2.RDF05.opt.gz
AU2.RDF06.opt.gz
AU2.RDF07.opt.gz
AU2.RDF08.opt.gz

```

A quick pass with GZIP (-d option) unzips 'em all. I did, of course rename the files as I downloaded them to something I can deal with in DOS, since it can't handle long file names... and neither can qbasic in a real operating system, either! I usually remane them to something like,

AU2RDF03.gz

Unblock renders them 'AU2RDF03.DLG' and then they're processable using MKMAPHK1.

On another note: I was overcome by real work today. Putting CONV100D out is now on tomorrow's agenda. Apologies for that, but I had to beat on a problem that helps pay for the ham radios.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

----->

I though THIS was your real job! ;-)

Doug
KC7CO

333. Topo map on CDROM

From: mcinnis@austin.ibm.com
Date: Thu, 16 Nov 1995 12:38:15 -0600 (CST)
To: aprssig@tapr.org (list aprs)
Message-ID: <9511161838.AA17373@babe01.austin.ibm.com>
Rendered body type: text/plain

Do any of the USGS CD-Rom's have anything like a topo-map generator, or are they just collections of data with no viewer?

i.e. I'd like to pop in my USGS CDROM and have an online topo map that works something like Street Atlas USA?

I'm getting the impression that what I'm after doesn't exist yet, but I thought I'd ask.

334. Re: APRTRAK

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 16 Nov 1995 14:36:33 -0500 (EST)
To: aprssig@tapr.org
Cc: rdw@crl.com
Message-ID: <Pine.SUN.3.91.951116142543.21263G-100000@greatlakes>
Rendered body type: text/plain

I just posted a new copy of APRtrak.zip for FTP @tapr.org in the directory
.....tapr/SIG/aprssig/upload

APRTRAK version 0.5 fixes two bugs and adds a new feature as follows:

- * Fixes the bug in 0.4 that was stuck in time zone -4
- * Fixes the loading of 2 line element sets
- * Adds the ability to monitor with MCOM ON. This feature is important for monitoring SAREX (and MIR) packets. Since most packets being transmitted by both of these spacecraft are DISC-BUSY packets with no other text, they are normally ignored by APRtrak. With MCOM on, these meaningless packets are displayed and ALL packets including these are saved on the ALL LIST and subsequently saved in the log files. This is so you can see who all is still trying to connect to the TNC. The L and P-LISTS will still only capture UI packets which contain station status or position information.

FOR ROY WELCH:

Roy, remind me of the place to upload the new version for AMSAT, and I will upload it, since i already have a copy on my server.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

335. Re: [APRSSIG:4455] Topo map on CDROM

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Thu, 16 Nov 95 14:55:29 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.816551729.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

The USGS CDs are Digital Line Graph data.. NO! Elevation data, that is in a different set entirely..

The CDs as is, come with some poor DOS software. It is, for the most part, left to the user to write their own code to access this data.. Also, the data

is in such a format that you really would NOT want to use it in its current format for 'real-time' displays. It is good for adapting to many different types of applications, but is way to big and bulky for going straight to the screen.

Keith

| | |
|---|--|
| Keith Sproul
Student Housing Network Coordinator
Rutgers University Computing Services
http://www-ns.rutgers.edu/~ksproul/ | Ham Radio: WU2Z
ksproul@noc.rutgers.edu
908 445-3695 Work 908 445-2968 Fax
908 821-4828 Home |
|---|--|

336. Re: [APRSSIG:4457] APRS bugs?

From: elekesa@cadvision.com (aaron elekes)
Date: Thu, 16 Nov 1995 14:00:48 -0700
To: aprssig@tapr.org
Message-ID: <9511162100.AA33032@huey.cadvision.com>
Rendered body type: text/plain

Could someone tell me why is it when I am running APRS; sometimes when I check my position status it has my callsigns all garbled?

ex:

```
Ve6fxr ddhhmm/ddmm. etc...  
$=Ve6fxr ddhhmm/ddmm. etc...  
#%^6fxr ddhhmm/ddmm. etc...
```

Could someone explain this? I keep having to delete these, and it is a pain?

de Aaron

337. DEM software?

From: jra@ag9v.ampr.org
Date: Thu, 16 Nov 1995 15:58:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199511162058.PAA13917@ag9v.ampr.org>
Rendered body type: text/plain

I know this is a bit off topic, but this seems to be a good place for general GIS information...

I'm looking for software that can use the DEM (digital elevation map) data to produce path profiles. In other words, you plug in the lat, long, and antenna height above ground at each end, and it shows you whether you have a line-of-sight path.

I've found a program called MicroDEM that has this capability, but it's buried amongst tons of other features and overhead that I don't need. Is there any other software out there that will massage the DEM data this way?

73,

John

--

John Ackermann AG9V
Internet: jra@ag9v.ampr.org
Packet: AG9V@N8ACV.#DAY.OH.USA

338. Re: [APRSSIG:4458] Re: APRS bugs?

From: Tom Kinahan <kinahan@mail1.bytex.network.com>
Date: Thu, 16 Nov 1995 16:37:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951116163417.6536D-100000@ws007-fddi>
Rendered body type: text/plain

I've seen this before when my Transmitter causes RF noise on the cable between the TNC and Computer. Try moving your data cable or adding Ferrites at either end, or don't transmit (!).

The RF from my HF transmitter does couple into my data cable and causes the next packet received to have garbage as the first few characters.

- Tom Kinahan N1CPE

On Thu, 16 Nov 1995, aaron elekes wrote:

```
>      Could someone tell me why is it when I am running APRS; sometimes
> when I check my position status it has my callsigns all garbled?
>
> ex:
>
> Ve6fxr ddhmm/ddmm. etc...
> $=Ve6fxr ddhmm/ddmm. etc...
> #%^6fxr ddhmm/ddmm. etc...
>
>
>      Could someone explain this? I keep having to delete these, and it is a
> pain?
>
> de Aaron
>
>
```

| | |
|-------------------------------|----------------------------------|
| Tom Kinahan | Phone: 508-366-0040 x360 |
| Bytex / Network Systems Corp. | Fax: 508-366-0244 |
| 4 Technology Drive | Email: kinahan@bytex.network.com |
| Westborough, Ma. 01581 | Amateur Radio: N1CPE |

339. Re: [APRSSIG:4458] Re: APRS bugs?

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Thu, 16 Nov 1995 14:02:57 -0800
To: aprssig@tapr.org
Message-ID: <9511162202.AA13669@gvgadg.gvg.tek.com>
Rendered body type: text/plain

I have seen an 'i' as a prefix to a call.

Randy
iWA2AGE

```
>      Could someone tell me why is it when I am running APRS; sometimes
>when I check my position status it has my callsigns all garbled?
>
> ex:
>
> Ve6fxr ddhmm/ddmm. etc...
> $=Ve6fxr ddhmm/ddmm. etc...
> #%^6fxr ddhmm/ddmm. etc...
>
>
>      Could someone explain this? I keep having to delete these, and it is a
> pain?
>
> de Aaron
>
>
>
```

340. Re: [APRSSIG:4460] Re: APRS bugs?

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Thu, 16 Nov 95 17:09:17 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511162300.RAA12901@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

Also, this may be obvious, but if your TNC/radio cable isn't shielded it probably will pick up garbage when your radio xmits. I've seen some experienced comm techs ignore this detail and their packet just doesn't work ..

----- REPLY, Original message follows -----

```
> Date: Thursday, 16-Nov-95 03:47 PM
>
> From: Tom Kinahan          \ Internet:    (kinahan@mail1.bytex.network
> .com)
> To:   APRS SIG            \ Internet:    (aprssig@tapr.org)
>
```

> Subject: [APRSSIG:4460] Re: APRS bugs?
>
> I've seen this before when my Transmitter causes RF noise on the cable
between
> the TNC and Computer. Try moving your data cable or adding Ferrites at
either
> end, or don't transmit (!).
----- REPLY, End of original message -----

--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W

341. Re: [APRSSIG:4442] Re: receiver desense

From: mwalker@interlog.com (Mike Walker)
Date: Thu, 16 Nov 95 20:57:44 EST
To: aprssig@tapr.org
Message-ID: <199511170156.UAA16866@gold.interlog.com>
Rendered body type: text/plain

>>
>> ?? Anyone had a chance to sweep this \$89.00 wonder and really see what it
>> does??
>>
>> 73' Jeff
>
The people from Sinclabs bought one from me and they swept it looking for SWR/
and other nice features.

All I can say is "You get what you pay for". It's not bad, but it can have a
high swr at the band edges. I also know of a customer who still had some
intermod problems, but they went away with a new Sinclabs one.

I can offer the results to those who ask, but I don't want them posted
publicly.

cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

342. Digi PHG pattern offset

From: "PETER L. LASCELL" <LASCELL@lecs.ericsson.se>
Date: Fri, 17 Nov 1995 03:01:47 +0100
To: aprssig@tapr.org
Message-ID: <01HXQEVZC4RM8Y5AIT@edt.ericsson.se>
Rendered body type: text/plain

The PHG propagation range indicator has seen recent discussion here. For
the near normal installation the PHG options would seem all that is required
assuming the correct numbers are input, and the digi operators look at
what is being displayed and confirm the range is realistic for MOBILES.

Here along the Blue Ridge mountains we have a unique condition. Not only
do we have digis that are located on the sides of mountains, we also
operate in the NRQZ, an enviroment providing RF interference protection
toward Greenbank, WV. Some digis may have directional or null patterns to
provide this protection. Obviously the PHG direction BIT was not intended
offset the patterns to the extreme we see in Virginia. Major lobes with
almost nothing behind them.

If other digi operators who are not so lucky to be able to operate from the
top of the hill or tower with omni patterns would speak up, maybe there
would be shown a real need for more DIRECTION BITS to move the offset
further toward the edge, or even a different pattern than round.

Is there a need for Bob to change it? Speak up please.

Since I have the bandwidth occupied... Is there "any" APRS VHF activity
in eastern Virginia, say Richmond, Petersburg and east to the coast? We see

nothing from the east or southeast on 145.79 on digis along the Blue Ridge. If you are out there, try digis WA4TFZ, W4BLD-1, or WA4BWB-3. Response to this Virginia activity inquiry might be better handled directly to my e-mail as it has little to do with the whole world of APRS.

Thanks for listening... Pete Lascell W4WWQ Forest, VA
lascell@lecs.ericsson.se

Standard disclaimer. My employer should not be responsible for what I just said. This is Ham Radio.

343. aprtrak program

From: Gordon Fuller <gfuller@netcom.com>
Date: Thu, 16 Nov 1995 18:03:38 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9511161700.A13352-0100000@netcom10>
Rendered body type: text/plain

I downloaded and unzipped the program without a problem. The program comes up fine, but I am unable to change my unproto path. When ever I enter a new path, it says to redo from start. I got a via 0 in the path. Also the satellites that it is plotting don't seem to agree with my Instant Track plots but I haven't been able to verify this yet. Am I doing something wrong with the unproto path ??? Gordy WB6OVH.... ..

gfuller@netcom.com

344. 100K maps

From: ke4eer@RO.COM (William Nolle)
Date: Thu, 16 Nov 1995 21:42:36
To: aprssig@tapr.org
Message-ID: <199511170449.WAA02950@sh1.ro.com>
Rendered body type: text/plain

Just wanted to let any interested users know that i just uploaded the latest Alabama maps. They now number 193 maps, and has 2 Maplists with it. One is MAPLIST.ALS and another MAPLIST.ALN. The file is getting nearly as big as APRS Hi Hi. It's called ALMAPS04.ZIP and don't forget the README.ALA. The total file size is 1.114 Meg zipped. Please enjoy the maps.

Bill KE4EER
ke4eer@ro.com

345. Re: [APRSSIG:4462] Re: APRS bugs?

From: KSwaggart@aol.com
Date: Fri, 17 Nov 1995 09:07:01 -0500
To: aprssig@tapr.org
Message-ID: <951117090701_25282104@mail06.mail.aol.com>
Rendered body type: text/plain

I've seen garbles in my call, and very occasionally in others, when running APRS as a DOS application in windows. Have been running the last two evenings on a DOS only 286 and have seen no garbles. Thought it might the time sharing/housekeeping going on in windows that was causing some garbles.

346. Discontinue Sending e-mail for APRS SIG

From: PhilH43601@aol.com
Date: Fri, 17 Nov 1995 07:14:59 -0500
To: aprssig@tapr.org
Message-ID: <951117071458_25212352@mail04.mail.aol.com>
Rendered body type: text/plain

I have sent several request to have APRSSIG mail sent to my e-mail box but I still keep getting tons of it everyday. I "clicked" on the box to stop the service, but it hasn't worked the last two times! Can you help?
My name is Phillip J. Hanna and my e-mail Address is PhilH43601@AOL.COM.
Thanks.

347. Execution failed

From: "Mt. Park Unix" <uun4hgfn4vu.atl.ga.us>
Date: Fri, 17 Nov 1995 10:19:26 -0500
To: aprssig@tapr.org
Message-ID: <199511171519.AA01978@n4vu.atl.ga.us>
Rendered body type: text/plain

Message from UUCP on n4vu Fri Nov 17 10:19:23 1995

Execution request failed:

rmail johng
Standard error output was:
sh: Out of virtual memory!
gdbm fatal: couldn't init cache.

348. DCI FILTERS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 17 Nov 1995 10:08:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951117094156.29202E-100000@greatlakes>
Rendered body type: text/plain

I stand by my original claim, these filters are FANTASTIC for \$89. I took mine to work and measured it:
IT was dead flat across the band with only 0.2 dB loss from 144.5 to 147.5
It was within SPEC of 1 DB at 144.2 to 148.1
it was 16 dB down at 142.6 and 150.0
it was 30 dB down at 142.0 and 151.3
THat will knock the heck out of any pagers!

On Thu, 16 Nov 1995, Mike Walker wrote:

> The people from Sinclabs bought one from me and they swept it looking for SWR/
> and other nice features..... The SWR was squirly at the band edges.....

NOTICE WHO IS DOING THE REVIEW: Isnt Sinclabs their primary competitor at 4 times the price? I'm sure they can find some nits... hi hi But with the high Q, you can ignore the SWR and just tune appropriately.... right?

349. Re: [APRSSIG:4464] Digi PHG pattern offset

From: rwf <rwf@mindspring.com>
Date: Fri, 17 Nov 1995 11:24:48 -0500
To: aprssig@tapr.org
Message-ID: <199511171624.LAA29242@borg.mindspring.com>
Rendered body type: text/plain

I'd like to see it, *IF* Bob had the time and resources to change it but it will do no good if the operators that should use it *Don't* use it. Most of the offenders around here don't even care to discuss the subject, they just want to have the largest circle they can.

I hadn't even considered it a priority issue to mention to Bob, but since you already did...

>
>If other digi operators who are not so lucky to be able to operate from the
>top of the hill or tower with omni patterns would speak up, maybe there
>would be shown a real need for more DIRECTION BITS to move the offset
>further toward the edge, or even a different pattern than round.
>
>Is there a need for Bob to change it? Speak up please.
>

350. Indiana Maps

From: "Thomas H. Busch" <TOMB@avoca.nwscc.sea06.navy.mil>
Date: Fri, 17 Nov 1995 11:59:44 EST
To: aprssig@tapr.org
Message-ID: <199511171701.LAA06033@sys1.tapr.org>
Rendered body type: text/plain

Hi all.

I just uploaded my first try at maps for Indiana. They are heavily Bloomington-oriented. I'll be working on more when I can download more data. I can't seem to download any right now. Has the USGS been furloughed?

WB8WOR

Tom Busch

Electronics Engineer
Crane Division, Naval Surface Warfare Center

Tel (812) 854-6490
FAX (812) 854-1332
E-Mail tomb@avoca.nwscc.sea06.navy.mil

351. Re: [APRSSIG:4468] Discontinue Sending e-mail for APRS SIG

From: ko4qc@ix.netcom.com (Joel Gamble)
Date: Fri, 17 Nov 1995 09:09:19 -0800
To: aprssig@tapr.org
Message-ID: <199511171709.JAA01465@ix10.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>I have sent several request to have APRSSIG mail sent to my e-mail box
but I still keep getting tons of it everyday. I "clicked" on the box to
stop the service, but it hasn't worked the last two times! Can you
help? My name is Phillip J. Hanna and my e-mail Address is
PhilH43601@AOL.COM.

>Thanks.

>

>

You have sent several requests for mail and you get "tons of
it".Whats the problem?

352. Garmin 45 connectors

From: N0A0T@aol.com
Date: Fri, 17 Nov 1995 12:33:46 -0500
To: aprssig@tapr.org
Message-ID: <951117123341_109175269@mail04.mail.aol.com>
Rendered body type: text/plain

Hi All,

Recently purchased a nifty Garmin 45 handheld GPS, but my dealer (HR0) does
not have any accessories or connectors yet. Garmin uses a connector similar
to a standard 4-pin mike jack, only the pins are much thinner. Has anyone
found a source of the Garmin 45 style connector?

By the way, the remote antenna kit that Magellan sells for their new
handhelds works fine with the Garmin 45 and is much cheaper. Has anybody had
any luck building a remote GPS antenna yet? Garmin wants \$130 for theirs,
which is kind of silly. It must be possible to homebrew one or find a surplus
source...

73's de N0A0T

353. Re: [APRSSIG:4474] Garmin 45 connectors

From: CCVFS.DRAWING@capital.ge.com
Date: Fri, 17 Nov 1995 13:16:08 -0500
To: aprssig <aprssig@tapr.org>
Message-ID: <00138000013076090000002*@MHS>
Rendered body type: text/plain

Two months ago in QST there was an article on how to build a GPS
receiving patch antenna. I talked to someone out here in Calif that
built it and has had great results. It's VERY inexpensive and can be
made from parts available at the hardware store.

Dana
ccvfs.drawing@capital.ge.com

Reply Separator

Subject: [APRSSIG:4474] Garmin 45 connectors
Author: aprssig (INTERNET.APRSsig) at SOFTSWITCH
Date: 11/17/95 12:42 PM

Hi All,

Recently purchased a nifty Garmin 45 handheld GPS, but my dealer (HR0) does
not have any accessories or connectors yet. Garmin uses a connector similar
to a standard 4-pin mike jack, only the pins are much thinner. Has anyone
found a source of the Garmin 45 style connector?

By the way, the remote antenna kit that Magellan sells for their new
handhelds works fine with the Garmin 45 and is much cheaper. Has anybody had
any luck building a remote GPS antenna yet? Garmin wants \$130 for theirs,

which is kind of silly. It must be possible to homebrew one or find a surplus source...

73's de N0A0T

354. Re: [APRSSIG:4472] Indiana Maps

From: CCVFS.DRAWING@capital.ge.com
Date: Fri, 17 Nov 1995 13:16:05 -0500
To: aprssig <aprssig@tapr.org>
Message-ID: <0013800001307608000002*@MHS>
Rendered body type: text/plain

Tom,

Yes they have been furloughed. I called to order a CD-Rom and the message stated that they were closed indefinitely due to the Government action.

Dana
ccvfs.drawing@capital.ge.com Internet
N10FZ@W1CDM.#SOCAL.CA Packet

Reply Separator

Subject: [APRSSIG:4472] Indiana Maps
Author: aprssig (INTERNET.APRSISG) at SOFTSWITCH
Date: 11/17/95 12:26 PM

Hi all.

I just uploaded my first try at maps for Indiana. They are heavily Bloomington-oriented. I'll be working on more when I can download more data. I can't seem to download any right now. Has the USGS been furloughed?

WB8WOR

Tom Busch

Electronics Engineer
Crane Division, Naval Surface Warfare Center

Tel (812) 854-6490
FAX (812) 854-1332
E-Mail tomb@avoca.nwscc.sea06.navy.mil

355. PHG for wierd patterns.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 17 Nov 1995 13:46:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951117133632.3872D-100000@greatlakes>
Rendered body type: text/plain

Possible new PHG format. I am only tossing this out as an IDEA. I am not promising that I will implement it. But see if it solves the problem for the DIGI SYSOP in trying to show his true PHG coverage. Personally, I think the single OFFSET circle curenly displayed is close enough for our purposes...

IF you set a directivity then the GAIN figure will be used to modify the offset of the circle in that direction. Right now, the offset for DIRECTIVITY is always 1/3 and 2/3 (more or less). This would permit you to better indicate the coverage of a BEAM or a repeater that has a total NULL in one direction. I can ONLY draw circles. I can draw ellipses too, but ONLY along the horiz and vertial axes.

Secondly I will consider adding a second PHG option. This will allow you to indicate with two overlapping circles the coverage of your digi. This would be done as PHG5653&34 Where the &34 means a second circle in the direction of 3 (135 degrees) and a gain of 4....

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

On Fri, 17 Nov 1995, rwf wrote:

> I'd like to see it, *IF* Bob had the time and resources to change it but it will
> do no good if the operators that should use it *Don't* use it. Most of the

> offenders
> around here don't even care to discuss the subject, they just want to have
> the largest
> circle they can.
>
> I hadn't even considered it a priority issue to mention to Bob, but since
> you already did...
>
>
>
> >
> >If other digi operators who are not so lucky to be able to operate from the
> >top of the hill or tower with omni patterns would speak up, maybe there
> >would be shown a real need for more DIRECTION BITS to move the offset
> >further toward the edge, or even a different pattern than round.
> >
> >Is there a need for Bob to change it? Speak up please.
> >
>
>
>

356. Re: [APRSSIG:4473] Re: Discontinue Sending e-mail for APRS SIG

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>
Date: Fri, 17 Nov 1995 14:32:52 -0500
To: aprssig@tapr.org
Message-ID: <30ACE364.7C6E@wingsbbs.com>
Rendered body type: text/plain

Joel Gamble wrote:

>
> You wrote:
> >I have sent several request to have APRSSIG mail sent to my e-mail
box
> but I still keep getting tons of it everyday. I "clicked" on the
box to
> stop the service, but it hasn't worked the last two times! Can you
> help? My name is Phillip J. Hanna and my e-mail Address is
> PhilH43601@AOL.COM.
> >Thanks.
> >
> >
> You have sent several requests for mail and you get "tons of
> it".Whats the problem?

He wants it to STOP... Gotta read between the lines...

Sam

357. Re: [APRSSIG:4468] Discontinue Sending e-mail for APRS SIG

From: DDOBBINS@aol.com
Date: Fri, 17 Nov 1995 15:16:53 -0500
To: aprssig@tapr.org
Message-ID: <951117151648_25619460@mail04.mail.aol.com>
Rendered body type: text/plain

Phil, send email to: listserv@tapr.org
put a dash (-) for the subj line
in the message text box type:
unsubscribe aprssig phillip hanna

that should do it. Aloha, Dave.

358. Re: [APRSSIG:4455] Topo map on CDROM

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 17 Nov 1995 15:24:40 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511172124.PAA11486@solar.cs.tamu.edu>
Rendered body type: text/plain

mcinnis@austin.ibm.com sez:

>
> Do any of the USGS CD-Rom's have anything like a topo-map generator, or
> are they just collections of data with no viewer?

Hypsography. About 35% of the country's done last I looked. But Mapfixxx
doesn't handle it yet.

73, gerry
gerry@cs.tamu.edu

359. Re: [APRSSIG:4478] Re: Discontinue Sending e-mail for APRS SIG

From: rwf <rwf@mindspring.com>
Date: Fri, 17 Nov 1995 16:26:46 -0500
To: aprssig@tapr.org
Message-ID: <199511172126.QAA05160@borg.mindspring.com>
Rendered body type: text/plain

Let's kill this thread. I have forwarded, via Email (as it should have been) the earlier instructions from Greg Jones about how to get off the list and what to do if you can't .

Ralph

At 01:49 PM 11/17/95 -0600, you wrote:
>Joel Gamble wrote:
>>
>> You wrote:
>> >I have sent several request to have APRSSIG mail sent to my e-mail
>box
>> but I still keep getting tons of it everyday. I "clicked" on the
>box to
>> stop the service, but it hasn't worked the last two times! Can you
>> help? My name is Phillip J. Hanna and my e-mail Address is
>> PhilH43601@AOL.COM.
>> >Thanks.
>> >
>> >
>> You have sent several requests for mail and you get "tons of
>> it".Whats the problem?
>
>
>He wants it to STOP... Gotta read between the lines...
>
>Sam
>
>

360. Re: [APRSSIG:4480] Re: Topo map on CDROM

From: mcinnis@austin.ibm.com
Date: Fri, 17 Nov 1995 15:45:06 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9511172145.AA26070@babe01.austin.ibm.com>
Rendered body type: text/plain

>
> mcinnis@austin.ibm.com sez:
> >
> > Do any of the USGS CD-Rom's have anything like a topo-map generator, or
> > are they just collections of data with no viewer?
>
> Hypsography. About 35% of the country's done last I looked. But Mapfixxx
> doesn't handle it yet.
>
> 73, gerry
> gerry@cs.tamu.edu
>
>

I'm not sure I understand. Is "Hypsography" the term for such a map?
35% of the country is done in terms of what? Is work in progress for
"topo on a CD", or what?

361. DFjr faceplate

From: JAgrelo@aol.com
Date: Fri, 17 Nov 1995 16:53:55 -0500
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <951117165352_109389882@emout06.mail.aol.com>
Rendered body type: text/plain

Thanks to all who participated in the color selection for the DFjr faceplate. To see the DFjr with the actual enclosure and Lexan faceplate go to our web site and click on DFjr.

Happy Turkey day from Agrelo Engineering.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

362. Re: [APRSSIG:4470] DCI FILTERS

From: Michael Walker <mwalker@gold.interlog.com>
Date: Fri, 17 Nov 1995 16:55:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9511171632.A23310-0100000@gold.interlog.com>
Rendered body type: text/plain

Hi Bob,
You are correct, the people doing the review are in fact making a competitive product, and normally, I would take their result with a grain of salt. To the credit of both, they only tested one unit (and it may have been the worst of the lot) and both the people who did the testing are friends of mine....

That said, I think that the DCI product is great for the price! The more expensive one meets its specs better, but if the DCI unit does the job at 1/3 the price then that's great! Since I am the amateur retail business, I often find people who want the best they can get at no money (don't we all...hi hi). That is the intent of my discussion.

Just so all know, the DCI product has outsold the Sinclabs one by about 10:1, and it is based on price.

I really hope that DCI does well, as they are a Canadian Company and they are pretty good to me on the phone.

cheers to all...mike

Michael Walker
mwalker@interlog.com
VA3MW

On Fri, 17 Nov 1995, Bob Bruninga wrote:

>
> I stand by my original claim, these filters are FANTASTIC for \$89. I took
> mine to work and measured it:
> IT was dead flat across the band with only 0.2 dB loss from 144.5 to 147.5
> It was within SPEC of 1 DB at 144.2 to 148.1
> it was 16 dB down at 142.6 and 150.0
> it was 30 dB down at 142.0 and 151.3
> THat will knock the heck out of any pagers!
>
> On Thu, 16 Nov 1995, Mike Walker wrote:
>
> > The people from Sinclabs bought one from me and they swept it looking for SWR/
> > and other nice features..... The SWR was squirly at the band edges.....
>
> NOTICE WHO IS DOING THE REVIEW: Isnt Sinclabs their primary competitor at
> 4 times the price? I'm sure they can find some nits... hi hi But with
> the high Q, you can ignore the SWR and just tune appropriately.... right?
>
>

363. Re: Filter (fwd)

From: Michael Walker <mwalker@gold.interlog.com>
Date: Fri, 17 Nov 1995 16:56:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9511171634.B23310-0100000@gold.interlog.com>
Rendered body type: text/plain
for the info of all...

Michael Walker
mwalker@interlog.com
VA3MW

----- Forwarded message -----
Date: Fri, 17 Nov 1995 10:11:18 -0600
From: Paul Moller <Paul_Moller@csg.mot.com>
To: Michael Walker <mwalker@gold.interlog.com>
Subject: Re: Filter

Mike,

Thanks for the rapid response. Yes it is typical for filters to have high VSWR at the band edges because the stop band "attenuation" of filters usually does not come from absorption, but rather from mis-match loss. In other words, the VSWR has to get real bad for the attenuation to be high. There is usually a trade off between holding on to good VSWR at the band edge, and holding on to good phase response at the band edge. Look at the Chebychev and Butterworth filters as examples of that.

If the coils are not on forms then there are serious mechanical and most likely temperature problems. But like you say, at \$89 you are still getting a lot of performance per \$.

Paul, WD9ABE
ps: feel free to pass this comment on if you wish!

At 10:50 AM 11/17/95 -0500, you wrote:
>Hi Paul,
>I'm sitting here at work and can't put my finger on the results from
>Sinclabs, but I will give you what I remember. The unit did the job, but
>the coils are not on forms, so they can change shape when they are
>shipped. This can cause the bandpass to change. It was also noted that
>they were not linear when you look at it as a 50 ohm load. This is a
>problem with filter design, and a more expensive filter does a better
>job. The 440 one was worse, but the 2m one is not bad, but its swr does
>rise at the band edge.....

364. Re: [APRSSIG:4480] Re: Topo map on CDROM

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Fri, 17 Nov 1995 17:38:59 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511172339.RAA14986@solar.cs.tamu.edu>
Rendered body type: text/plain

Gerald J Creager sez:
>
> mcinnis@austin.ibm.com sez:
> >
> > Do any of the USGS CD-Rom's have anything like a topo-map generator, or
> > are they just collections of data with no viewer?
>
> Hypsography. About 35% of the country's done last I looked. But Mapfixxx
> doesn't handle it yet.

As an addendum to my own answer...

No. The CD ROMs do not. the FTP site does.

Keith was completely correct.

73, gerry
gergy@cs.tamu.edu

365. Re: [APRSSIG:4482] Re: Topo map on CDROM

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Fri, 17 Nov 1995 18:04:29 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511180004.SAA15376@solar.cs.tamu.edu>
Rendered body type: text/plain

mcinnis@austin.ibm.com sez:

>

> I'm not sure I understand. Is "Hypsography" the term for such a map?
> 35% of the country is done in terms of what? Is work in progress for
> "topo on a CD", or what?

It's a term the USGS generated, near as I can tell. At least none of the experts here in the lab recognized it! They have elevation models of ~35% of the country completed and available (theoretically) via FTP. Using the Web they have a nice graphic to tell you what's done and what's not.

73, gerry
gerry@cs.tamu.edu

366. Dual port pico TNC

From: "Gerald H. Nies" <gnies@RWIC.UND.NoDak.Edu>
Date: Fri, 17 Nov 1995 18:27:06 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SGI.3.91.951117182207.21333C-100000@oz.rwic.und.nodak.edu>
Rendered body type: text/plain

I've got one of the dual ports and am still finding out a lot about it.
Neat little unit.

I would be interested in talking with others who are using it with their
GPS (mine is a Garmin 45)

Thanks.

Gerry N0NGW

>From the frozen plains of the Dakotas.

367. Execution failed

From: news <news%n4vu.UUCP@mathcs.emory.edu>
Date: Fri, 17 Nov 1995 10:19:34 -0500
To: aprssig@tapr.org
Message-ID: <199511171519.AA01989%n4vu.atl.ga.us>
Rendered body type: text/plain

Message from UUCP on n4vu Fri Nov 17 10:19:29 1995

Execution request failed:
rmail johng
Standard error output was:
sh: Out of virtual memory!
gdbm fatal: couldn't init cache.

368. Re: [APRSSIG:4488] Dual port pico TNC

From: rwf <rwf@mindspring.com>
Date: Fri, 17 Nov 1995 20:37:48 -0500
To: aprssig@tapr.org
Message-ID: <199511180137.UAA23319@borg.mindspring.com>
Rendered body type: text/plain

Tell us what it does.

Can it handle the stand alone tracker function on the gps port when aprs is
not running on the computer port?

Does it go into stand alone tracker mode automatically when aprs is not running?
If not, how do you change modes?

What things can it do that other tncs can't?

At 06:30 PM 11/17/95 -0600, you wrote:
>I've got one of the dual ports and am still finding out a lot about it.
>Neat little unit.
>
>I would be interested in talking with others who are using it with their
>GPS (mine is a Garmin 45)
>
>Thanks.
>

>Gerry N0NGW
>
>>From the frozen plains of the Dakotas.
>
>

369. Re: [APRSSIG:4474] Garmin 45 connectors

From: "Coster, Jack Eugene" <JCOSTER@WVNM.WVNET.EDU>
Date: Sat, 18 Nov 1995 05:58:17 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199511181058.EAA05900@sys1.tapr.org>
Rendered body type: text/plain

I finally broke down and bought the garmin power/data cable. Someone told me th
at a small tube socket fits the garmin plug, but I couldn't find one.
About the antenna, look at the October 1995 issue of QST and see the article on
constructing a patch antenna for the garmin. I haven't done it yet, but it wil
l be a snap to build. Cheap too!!
de Jack. WF8X

370. Location of garmin.exe?

From: "Coster, Jack Eugene" <JCOSTER@WVNM.WVNET.EDU>
Date: Sat, 18 Nov 1995 06:05:44 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199511181106.FAA06294@sys1.tapr.org>
Rendered body type: text/plain

Could someone point me to a bbs or other location where I can download garmin.e
xe and the other garmin program(gardown?) ? Thanks. de Jack. WF8X.

371. Re: [APRSSIG:4474] Garmin 45 connectors

From: jkerns@usit.net (jim kerns)
Date: Sat, 18 Nov 1995 07:29:35 -0500
To: aprssig@tapr.org
Message-ID: <199511181224.HAA21473@use.usit.net>
Rendered body type: text/plain

>Hi All,
>
>Recently purchased a nifty Garmin 45 handheld GPS, but my dealer (HRO) does
>not have any accessories or connectors yet. Garmin uses a connector similar
>to a standard 4-pin mike jack, only the pins are much thinner. Has anyone
>found a source of the Garmin 45 style connector?
>
>By the way, the remote antenna kit that Magellan sells for their new
>handhelds works fine with the Garmin 45 and is much cheaper. Has anybody had
>any luck building a remote GPS antenna yet? Garmin wants \$130 for theirs,
>which is kind of silly. It must be possible to homebrew one or find a surplus
>source...
>
>73's de N0AOT
>
Thought I'd let you know, my remote antenna for my Garman 50 cost about \$18.00
Don't know about yours but the GPS 50 has a removable BNC antenna. Radio
shack makes a window mount 2 meter antenna base for about 14.95 .. part
number is 23-023. then you need a 90 degree adapter for the antenna BNC so
it will point straight up. Radio shavk also has this adapter. total cost
abt \$19.00 >
> Hope this will work on your GPS.
73 Jim N4PUQ in Tn.
A 2 yr APRS user.
>
>
>

372. Re: [APRSSIG:4478] Re: Discontinue Sending e-mail for APRS SIG

From: ko4qc@ix.netcom.com (Joel Gamble)
Date: Sat, 18 Nov 1995 05:42:32 -0800
To: aprssig@tapr.org
Message-ID: <199511181342.FAA18818@ix4.ix.netcom.com>
Rendered body type: text/plain

You wrote:
>
>Joel Gamble wrote:
>>
>> You wrote:
>> >I have sent several request to have APRSSIG mail sent to my e-mail

>box
>> but I still keep getting tons of it everyday. I "clicked" on the
>box to
>> stop the service, but it hasn't worked the last two times! Can you
>> help? My name is Phillip J. Hanna and my e-mail Address is
>> PhilH43601@AOL.COM.
>> >Thanks.
>> >
>> >
>> You have sent several requests for mail and you get "tons of
>> it".Whats the problem?
>
>
>He wants it to STOP... Gotta read between the lines...
>
>Sam
>
Well Sam,HE needs to type what HE means,or are you his official
interpreter?(nothing between the lines,on my end,except space!!)
Joel

373. Re: [APRSSIG:4491] Re: Garmin 45 connectors

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 18 Nov 1995 10:29:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951118102406.9373B-100000@greatlakes>
Rendered body type: text/plain

On Sat, 18 Nov 1995, Coster, Jack Eugene wrote:

> I finally broke down and bought the garmin power/data cable.
> About the antenna, look at the October 1995 issue of QST and see the
> article on constructing a patch antenna for the garmin.
> It will be a snap to build. Cheap too!!

APR REPLY: But why bother? The G-45 antenna is remotable over a few
feet of cable too. The QST article is also a passive antenna and wont
work beyond a few feet either. 4 feet for sure, 6 feet maybe. The QST
patch antenna does have the advantage of low aerodynamic drag tho...
After YOU figure out how to WX proof it...

374. [APRSSIG:4492] Location of garmin.exe?

From: wirenet!n4nr@vulcan.com (N4NR)
Date: Sat, 18 Nov 95 09:37:00 -0500
To: aprssig@tapr.org
Message-ID: <8B53241.0012000204.uuout@vulcan.com>
Rendered body type: text/plain

-> Could someone point me to a bbs or other location where I can
-> download garmin.e xe and the other garmin program(gardown?) ?
-> Thanks. de Jack. WF8X.

The WireNET BBS (205-444-9638), located in Birmingham, Al., has
GARMIN, GARMIN64, GARDOWN7, GARMAP, G45FAQ, as well as all the Alabama
maps that KE4EER is cranking out. Speed up to 33,600 bps, and simply
SCAN APRS across all directories. (PC-BOARD)

73, Dennis - N4NR

375. Re: [APRSSIG:4487] Re: Topo map on CDROM

From: Barbara Fehner <fehner@cts.com>
Date: Sat, 18 Nov 95 12:24 PST
To: aprssig@tapr.org
Message-ID: <m0tGtoK-000UyUC@mailhub.cts.com>
Rendered body type: text/plain

Hypsography is defined in my Webster's New Colligiate Dictionary, 1952
edition, as topographic relief from the Greek hypso meaning heights.

I believe that the original question was if a map generator or viewer was
available for the data. I have not found one yet for borders (bd), public
lands (pl), or the hypsographic (hp) files. I do wish we had an extraction
program that would handle all the available files.

73,s

Barbara KK6IB
E-Mail: fehner@cts.com

At 06:11 PM 11/17/95 -0600, you wrote:
>mcinnis@austin.ibm.com sez:
>>
>> I'm not sure I understand. Is "Hypsography" the term for such a map?
>> 35% of the country is done in terms of what? Is work in progress for
>> "topo on a CD", or what?
>
>It's a term the USGS generated, near as I can tell. At least none o f the
>experts here in the lab recognized it! They have elevation models of ~35% of
>the country completed and available (theoretically) via FTP. Using the Web
>they have a nice graphic to tell you what's done and what's not.
>
>73, gerry
>gerry@cs.tamu.edu
>
>
>

376. Re: [APRSSIG:4488] Dual port pico TNC

From: "John R. Engel" <jengel@RWIC.UND.NoDak.Edu>
Date: Sat, 18 Nov 1995 14:42:58 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SGI.3.91.951118144049.2042A-100000@oz.rwic.und.nodak.edu>
Rendered body type: text/plain

I have a friend(?) who is also having problems with his TNC but he doesn't own a Garmin 45. Let me know if you get yours working and I'll pass the information along.

Thanks.

John

377. HAAT formula?

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Sat, 18 Nov 1995 13:01:53 -0800
To: aprssig@tapr.org
Message-ID: <v01510105acd3f77a6448@[128.149.100.84]>
Rendered body type: text/plain

Could someone post the procedure for determining HAAT? I have one, but I am not sure it is correct.

-Greg

--

| | |
|-----------------------------------|--|
| Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov |
| Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org |
| Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA |
| M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107 |
| Pasadena, CA 91109 | |

378. Map Files on ftp.tapr.org

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Sat, 18 Nov 95 17:17:48 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.816733068.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

I have moved all of the recently uploaded map files into the PCMaps folder. This keeps the APRSSIG directory somewhat neater.

I have also deleted some of the older PC versions.

Keith

| | |
|---------------------------------------|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

379. Re: [APRSSIG:4473] Re: Discontinue Sending e-mail for APRS SIG

From: PhilH43601@aol.com
Date: Sat, 18 Nov 1995 17:27:10 -0500
To: aprssig@tapr.org
Message-ID: <951118172709_110299694@mail06.mail.aol.com>
Rendered body type: text/plain

The problem is I don't want to receive any more mail and I can't stop the service. Am I doing something wrong or not connecting to the correct place to stop the service?
Tnx fro your help.

380. Re: [APRSSIG:4499] HAAT formula?

From: rwf <rwf@mindspring.com>
Date: Sat, 18 Nov 1995 18:25:06 -0500
To: aprssig@tapr.org
Message-ID: <199511182325.SAA10794@borg.mindspring.com>
Rendered body type: text/plain

Here's how we do it in the Repeater Coordination "biz.":

Get several topo maps for your area.
Mark your position
mark the 8 compass points N NE E SE S SW W NW
Draw rays out 10 miles
mark points on each ray at 2 4 6 8 10 mile distances from your QTH
Determine the terrain elevation by using the contour lines at each of the 40 points
Add up all the elevations and divide by 40
You now know the Average terrain elevation.
Compare it with yours to get HAAT or (-HAAT)

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://ftp.mindspring.com/users/rwf> for ATV, GPS, APRS info
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

At 03:04 PM 11/18/95 -0600, you wrote:
>Could someone post the procedure for determining HAAT? I have one, but I am
>not sure it is correct.
>
>-Greg
>
>--
>Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov
>Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
>Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
>M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
>Pasadena, CA 91109 |
>
>
>

381. Running APRS from laptop

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sat, 18 Nov 1995 20:48:10 -0500 (EST)
To: APRS sig group <aprssig@tapr.org>
Message-ID: <Pine.BSF.3.91.951118204206.570A-100000@laraby.tiac.net>
Rendered body type: text/plain

I am trying to get APRS to run from my 8088 twin 3.5" drive laptop.

It starts, loads the local map, then starts beeping like mad. It seems like the only time it stops beeping is when it does a screen re-draw. Also, up in the "To Go" box in the upper right corner, there is the msg

COMM-Bad#

Any suggestions?

Richard Amirault
amirault@tiac.net

N1JDU
"Go Fly A Kite"

Boston, Massachusetts USA

382. Re: [APRSSIG:4502] Re: HAAT formula?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sat, 18 Nov 1995 21:02:06 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <Pine.BSF.3.91.951118205835.852A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Sat, 18 Nov 1995, rwf wrote:

> Here's how we do it in the Repeater Coordination "biz":
>
> Get several topo maps for your area.
> Mark your position
> mark the 8 compass points N NE E SE S SW W NW
> Draw rays out 10 miles
> mark points on each ray at 2 4 6 8 10 mile distances from your QTH
> Determine the terrain elevation by using the contour lines at each of the 40
> points
> Add up all the elevations and divide by 40
> You now know the Average terrain elevation.
> Compare it with yours to get HAAT or (-HAAT)
>

That works for repeaters, but they are generally located up at high points on the topography. I would most likely be less accurate for "regular folks" in more down to earth situations.

For instance, I have hills higher than my roofline, both south and west, closer than 2 miles distance. In the above formula, those hill would not be taken into consideration.

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

383. ZIP codes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 18 Nov 1995 21:50:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951118214704.10075A-100000@greatlakes>
Rendered body type: text/plain

Does anyone have, or know where to download a database that has the LAT/LONG of all the US postal ZIP CODES?

I know Keith has this, but he is too busy with WinAPRS to dig it up...

P.S. Just got a copy of ONmapsxx.zip and the guys in Ontario have been busy making maps. They have also done some of WEST new york state in there too....

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

384. Re: [APRSSIG:4503] Running APRS from laptop

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 18 Nov 1995 21:52:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951118215046.10075C-100000@greatlakes>
Rendered body type: text/plain

On Sat, 18 Nov 1995, Richard Amirault wrote:

> I am trying to get APRS to run from my 8088 twin 3.5" drive laptop.
>
> It starts, loads the local map, then starts beeping like mad. It seems
> like the only time it stops beeping is when it does a screen re-draw.

IT CANT FIND A FILE. I DONNO WHICH ONE, but be sure you have all the SYSTEM files and also MAPLIST.USA and USA.MAP. If you have these, then bring up APRS fresh (/new) to see if it runs....

385. Re: [APRSSIG:4504] Re: HAAT formula?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 18 Nov 1995 21:55:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951118215324.10075D-100000@greatlakes>
Rendered body type: text/plain

On Sat, 18 Nov 1995, Richard Amirault wrote:

> For instance, I have hills higher than my roofline, both south and west,
> closer than 2 miles distance. In the above formula, those hill would not
> be taken into consideration.

YES THEY WOULD. YOUR HAAT is NEGATIVE in those directions. PERIOD.

APRS accepts a value of zero.

386. Re: [APRSSIG:4504] Re: HAAT formula?

From: Bob Wilkins n6fri <rwilkins@uhf.org>
Date: Sat, 18 Nov 1995 19:02:42 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951118183437.29212A-100000@ccnet3>
Rendered body type: text/plain

On Sat, 18 Nov 1995, Richard Amirault wrote:

> That works for repeaters, but they are generally located up at high
> points on the topography. I would most likely be less accurate for
> "regular folks" in more down to earth situations.

That formula is the standard FCC haat formula for commercial station licenses. It works where ever the station is located. The accuracy stays the same.

> For instance, I have hills higher than my roofline, both south and west,
> closer than 2 miles distance. In the above formula, those hill would not
> be taken into consideration.

HAAT Height Above Average Terrain

If you want more accuracy for your station, you can use the 3 second elev.data base. Or you can take readings every one mile on the radials and divide by the number of points or you can read every half mile, etc. Remember the haat is just an average. Many times in our area the haat is a minus number as the station may be on a good 500' hill but there is a 3000' foot mountain range within 5 miles along one side. The haat is a circle, your station may not have a circular coverage so it could go to a negative haat.

Most commercial fcc rules set the station power level by haat, so you want a low or negative haat to run higher power. Pagers can blast downtown but have to lower their power levels at high haat sites.

| | | |
|----------------------|------|--------------------------------|
| Bob Wilkins | home | n6fri@uhf.org |
| Berkeley, California | work | bwilkins@cave.org |
| 94712-2354 | play | n6fri@n6eeg.#nocal.ca.usa.noam |

387. How do I unsubscribe?

From: Stephen Smith <sftf@frog.thpl.lib.fl.us>
Date: Sat, 18 Nov 1995 22:04:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.90.951118220314.21234B-100000@frog>
Rendered body type: text/plain

How do I unsubscribe to the aprssig? HELP!

Steve/KE4MDX

388. Laptop problem solved!

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 19 Nov 1995 00:14:32 -0500 (EST)
To: APRS sig group <aprssig@tapr.org>
Message-ID: <Pine.BSF.3.91.951119001007.4236A-100000@laraby.tiac.net>
Rendered body type: text/plain

Well, after some more experimenting, I found that I had to create my

cfigxx.apr

file, on my desktop computer. Using the ports,speeds,etc on the laptop.
Then copy to file to the 720k floppy.

I was still having some minor problems, until I created empty subdirectories on the floppy that matched my desktop computer.

Now that everything seems to be working, I'll have to try it out in the car!

| | | |
|-------------------|-----------------|---------------------------|
| Richard Amirault | N1JDU | Boston, Massachusetts USA |
| amirault@tiac.net | "Go Fly A Kite" | |

389. Re: [APRSSIG:4507] Re: HAAT formula?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 19 Nov 1995 00:19:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.951119001654.4236B-100000@laraby.tiac.net>
Rendered body type: text/plain

On Sat, 18 Nov 1995, Bob Bruninga wrote:

>
> On Sat, 18 Nov 1995, Richard Amirault wrote:
>
> > For instance, I have hills higher than my roofline, both south and west,
> > closer than 2 miles distance. In the above formula, those hill would not
> > be taken into consideration.
>
> YES THEY WOULD. YOUR HAAT is NEGATIVE in those directions. PERIOD.
>
> APRS accepts a value of zero.
>
>
Yes, and that is what I use....

But if I remember the formula, the closest point taken into consideration is 2 miles away. (formular given for computing HAAT) How can topography 1/4 mile away be a part of such a calculation? (I must be missing something here)

| | | |
|-------------------|-----------------|---------------------------|
| Richard Amirault | N1JDU | Boston, Massachusetts USA |
| amirault@tiac.net | "Go Fly A Kite" | |

390. Here's how to unsubscribe :)

From: rwf <rwf@mindspring.com>
Date: Sun, 19 Nov 1995 12:12:27 -0500
To: aprssig@tapr.org
Message-ID: <199511191712.MAA13075@borg.mindspring.com>
Rendered body type: text/plain

For all of you who are getting this list and do not want it, please read the following.

It was posted by Greg Jones a few weeks ago. Both persons who asked have been sent a copy via Email as well. Greg says that our Host, Keith Sproul can further assist if needed.

REPRINT BELOW:

Hello -- here is the information on the listserv.

Also -- if you have a problem with getting off, you should contact Keith Sproul or who ever Keith has handling this issue, since Keith is the Chair of the TAPR APRS SIG. The SIG Chair is responsible for these issues.

To unsubscribe, you just send e-mail to 'listserv@tapr.org' and in the message say
unsubscribe aprssig The problem happens when you switch providers and do not unsubscribe before the move. The list system we use (a freeware version) looks at the incoming message based on your sunscribed account, so if you change -- you no longer are at the other account. If this happnes you have to contact the SIG chair to correct the siutation.

Cheers - Greg

Greetings from TAPR!

TAPR can be reached via the Internet. The Automated Information Server that TAPR provides allows anyone to request information on TAPR, products, newsletters, and lots of other files. To find out more about this service, send an e-mail message to listserv@tapr.org with the subject line "Request" and the following text in the body of the message:

help (for a brief set of instructions)

index -all (for a list of all file by topic area)
list (for a list of TAPR Mail Groups)
get tapr taprinfo.txt (or info on TAPR)

In the above message example, "help" retrieves a brief set of instructions for info, "index -all" retrieves a list of available files by topic and "taprinfo.txt" retrieves a text file containing information on TAPR and what TAPR is all about. If you want to retrieve several text files with one message, use a separate line for each "get filename" request.

Special Interest Groups

TAPR maintains several SIGs in various areas. To get the latest list of SIG groups, send an e-mail message to listserv@tapr.org with the subject line "Request" and the following text in the body of the message:

list (for list of mail groups on TAPR.ORG)

To request the information on any mail group, send an e-mail message to listserv@tapr.org and in the message text include:

information listname (where listname is the name of the mail group)

When you are ready to subscribe, send e-mail to listserv@tapr.org with the following command in the message text:

subscribe <list> <your name>

List should be the name of the mail list you want to join and Your Name should be both your First and Last Name. BE SURE NOT TO USE THE "<" and ">" in your message. Example: subscribe aprssig John Jones

Current SIGs include:

| | |
|----------|---|
| NETSIG | Regional Networking SIG |
| BBSSIG | BBS SIG |
| HFSIG | SIG on HF Digital Topics |
| DSP-93 | SIG for those that are building TAPR/AMSAT DSP-93 kits |
| APRSSIG | SIG on APRS |
| TAPR-TNC | SIG on TNC Issues |
| TAPR-BB | Announcement channel for TAPR bulletins and information |

FTP users

The TAPR Software Library is now available via anonymous FTP. You can access the library by ftp access to 'ftp.tapr.org' in the directory /tapr. Login in as 'anonymous', with a password of 'your_account@internet_address'.

Packet Raido and TAPR is on the World-Wide-Web!

The series is accesible through the Packet Radio Home Page at this URL:

<http://www.tapr.org>

What's here? A page of links (the Home Page), the TAPR Home Page, a page of Packet Pioneers and Contacts, a hypertext packet primer and FAQ, and more.

Tucson Amateur Packet Radio
8987-309 E. Tanque Verde Road #337
Tucson, AZ 85749-9399
817-383-0000 (Tuesday - Friday 9:00-11:00am, 3:00-5:00pm CT)
(15:00-17:00, 21:00-23:00 UTC)
817-566-2544 FAX

Internet: TAPR@TAPR.ORG

391. Re: [APRSSIG:4504] Re: HAAT formula?

From: rwf <rwf@mindspring.com>
Date: Sun, 19 Nov 1995 12:02:31 -0500
To: aprssig@tapr.org
Message-ID: <199511191702.MAA11890@borg.mindspring.com>
Rendered body type: text/plain

At 08:14 PM 11/18/95 -0600, you wrote:

>That works for repeaters, but they are generally located up at high
>points on the topography. I would most likely be less accurate for
>"regular folks" in more down to earth situations.
>
>For instance, I have hills higher than my roofline, both south and west,
>closer than 2 miles distance. In the above formula, those hill would not
>be taken into consideration.
>

So Richard, Don't go out 10 miles in 2 mile increments. You didn't say whether it was for a digi or a home QTH. Change it so you get an "average" for *your* situation Do it every .5 mile. Or whatever.

73
Ralph

392. Re: [APRSSIG:4503] Running APRS from laptop

From: philkeys@olympus.net (Phil Keys)
Date: Sun, 19 Nov 1995 07:17:45 -0800
To: aprssig@tapr.org
Message-ID: <v01510104acd4f79f3cf2@[198.133.237.53]>
Rendered body type: text/plain

I have recently got APRS running on an old Zenith 8088 laptop with dual 720K floppies, no hard drive. So it can be done.

Sounds like you have a problem establishing communication with your TNC. What TNC are you using? Is the baud rate correct? You will probably get other more specific responses?

Good luck
Phil Keys

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

393. HAAT formula LAST comment

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 19 Nov 1995 10:01:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951119095506.10904D-100000@greatlakes>
Rendered body type: text/plain

Someone wrote:

> But if I remember the formula, the closest point taken into consideration
> is 2 miles away. (formular given for computing HAAT) How can topography
> 1/4 mile away be a part of such a calculation?

REPLY: The formula is just a guide, Height above average terrain is just that. Take as many points as you want spaced as pften as you want, every inch would also do. Add them all up and divide by the nuber of points. The result is the HEIGHT OF AVERAGE TERRAIN. Then compare your antenna height to that height. Many HAMS will find their HAAT to be less than zero, hi hi. The FCC suggested formula of every 2 miles is simply to avoid a lot of number crunching and still give a reasonable answer.

394. ID packets

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 19 Nov 1995 09:39:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951119092902.10904A-100000@greatlakes>
Rendered body type: text/plain

Since APRS puts all UI's with POSITS on the P-LIST and puts all other UI frames on the L-LIST, only the latest non-posit UI shows up on the

L-LIST. Further, since many TNC's occasionally send an ID packet to ID, this would normally overwrite the stations last legitimate STATUS or BText on the L-LIST. (not desired)

To keep ID packets from overwriting good BTEXT data on the L-LIST, APRS has always ignored ID packets UNLESS THEY are the FIRST packet received from that station. This works fine except for when the ID packet is the ONLY packet received from a station and it has the POSIT in it.

Someone just reported that all X-1J BEACONS are sent to ID, and that they therefore fade to gray after 2 hours. The purpose of this message was to say "too bad" but I guess I could check to see if the packet TO ID has a posit in it and if so, to accept the packet even after the first...

> N4QEA SAID:
> Ok, you just hit the problem.....
> On a TheNet node all you have is the ID for a beacon

395. Help! w/GPSTOHST.BAS

From: n2czf@gate.net
Date: Sun, 19 Nov 1995 13:21:13 -0500
To: aprssig@tapr.org
Cc: bruninga@nadn.navy.mil
Message-ID: <199511191821.NAA99853@tequesta.gate.net>
Rendered body type: text/plain

I have just tried using the basic program GPSTOHST.BAS in the APRS distro for the first time and was surprised at what I found. I had never run it since I had never bothered to collect raw GPS data for mapmaking and found that it will not read \$GPRMC data.

The program does mention at the beginning that it will not work with RMC data or LORAN and that several lines need to be changed. I have never done any basic programing so I need help, please! If someone can make those changes and attach it to a message for me I would appreciate it, or maybe UPLOAD it to the TAPR directory for everyone else. I am surprised that this has not come up in the past. Garmin GPS units use the RMC statement and the Garmin seems to be a popular unit among the APRS users that I have spoken with.

Thanks and 73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

396. USGS Internet System "Gone Fishing"?

From: n2czf@gate.net
Date: Sun, 19 Nov 1995 13:28:34 -0500
To: aprssig@tapr.org
Message-ID: <199511191828.NAA97823@tequesta.gate.net>
Rendered body type: text/plain

Well did the politicians lay off the computer system for the USGS also?? I have tried several times for 2 days now to get DLG files from the USGS FTP server and all I get is either Error 404 or Access to the Server has Timed out.

I had been able to access it after the problems in Washington had started but Friday night was the last time I was able to check in.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

397. KPC 3 Tracker

From: rwf <rwf@mindspring.com>
Date: Sun, 19 Nov 1995 17:43:20 -0500
To: aprssig@tapr.org
Message-ID: <199511192243.RAA23253@borg.mindspring.com>
Rendered body type: text/plain

Folks- (sort of directed to Ron Kramer, since he is a KPC3 expert)

A couple of us have been playing KPC-3 stand alone tracker this weekend. We have noticed something that puzzles us.

I played with the GPS options in the KPC3 and have it working correctly except for this:

We are supposed to connect to the PBBS and use the LTRACK command to dump

the track history.
Won't work. The PBBS doesn't seem to know what the LTRACK command is.
The buffers are set up properly, per the instrux here and in the manual.
Has anyone gotten this to work?

398. SSID vehicle identifiers

From: rwf <rwf@mindspring.com>
Date: Sun, 19 Nov 1995 17:43:21 -0500
To: aprssig@tapr.org
Message-ID: <199511192243.RAA23257@borg.mindspring.com>
Rendered body type: text/plain
BOB et al.

After playing with the GPS/KPC 3 trackers, I decided to try something else. I wanted to see the various symbols that can be displayed when data is received from a stand alone tracker. In my experiments, I began to wonder is something about APRS broke a while back and no one noticed.

History:

1. A few times during demos I wanted to set up a bike symbol from the PC running APRS. I inserted my position and told it I was a "bike". Each time I showed up as a balloon. This even happened during our Atlanta workshop with Bob APR, but I think it was after he left.

2. W6PNC turns into a "Moving Lighthouse" rather than his normal symbol mobile. Happened during Bob's presentation. Bob thought it just might be a "glitch" due to the HSP or something on W6PNC's end. If that was the case, why would it stay as this symbol rather than correcting itself on the next transmission?

3. I misplaced the power supply to my laptop this week. Suffering mobile APRS withdrawal, I wanted to see the car on the screen while at home, so I connected to the remote sysop feature of the onboard KPC-3 and tried to start the beacon going.

I set up the Beacon every one min and set up the correct unproto. I set the Btext as follows:

```
BT !3355.00N/08466.47W I net the Call to N4NEQ-15 (for a van)
```

I showed up as a tiny 1 pixel dot. No Van

I then added the /{v} to the Btext as follows

```
BT !3355.00N/08466.47W/{v}
```

The displayed symbol changed to the "Dot" that you get if you let the symbol default when you first run APRS. No Van
Is this the correct format? Was the / before the {v} needed?

When I changed my ID back to N4NEQ-9 and kept the {v}, The symbol changed back to the 1 pixel dot.

Beacon interval lwas 1 minute, so It refreshed often enough.

I was using APRS74 for receiving.

Is APRS broke, or am I doing something wrong and just not following instructions.

Oh... and look for our "wonderful" user with the following path on his U-2000 WX station. He does not care to listen to any

reason regarding network management and bandwidth use..

APRS VIA CALLSIGN, RELAY,GATE,GATE,WIDE,WIDE, RELAY

If you would like, I'll pass along his address for the flames <g>

73

Ralph (who had a lot of spare time this weekend)
rwf@mindspring.com

399. MacAprs address error

From: "Brent Bolen" <ke6jgn@garlic.com>
Date: Sun, 19 Nov 1995 18:06:47 +0000
To: aprssig@tapr.org
Message-ID: <9511200206.AA21848@garlic.com>
Rendered body type: text/plain

Can anyone shed some light on a problem I am having? I get the following message:

Sorry, a system error occurred
"MacPARS 2.0.3"
address error

I am using a Mac SE with 4 MB RAM. The manual says that it should run in as little as 2048k, I have it set to 2800k.

Thanks in advance,

ke6jgn@garlic.com
If its not a Border Collie,
its just a dog.

400. Re: [APRSSIG:4519] KPC 3 Tracker

From: "Douglas M. Pervine" <n1obu@mindport.net>
Date: Mon, 20 Nov 1995 05:43:25 -0500
To: aprssig@tapr.org
Message-ID: <199511201043.FAA03244@polaris>
Rendered body type: text/plain

Do you connect to the PBBS or the REMOTE?? Connecting to the REMOTE gives you access to all the KPC-3's commands.

Just a thought...

At 02:29 AM 11/20/95 -0600, you wrote:

>Folks- (sort of directed to Ron Kramer, since he is a KPC3 expert)

>

>

>A couple of us have been playing KPC-3 stand alone tracker this weekend.

>We have noticed something that puzzles us.

>

>

>I played with the GPS options in the KPC3 and have it working correctly

>except for this:

>

>We are supposed to connect to the PBBS and use the LTRACK command to dump
>the track history.

> Won't work. The PBBS doesn't seem to know what the LTRACK command is.

>

>The buffers are set up properly, per the instrux here and in the manual.

>

>Has anyone gotten this to work?

>

>

>

401. RELAY-WIDE

From: mwalker@interlog.com (Mike Walker)
Date: Mon, 20 Nov 95 08:40:26 EST
To: aprssig@tapr.org
Message-ID: <199511201339.IAA29441@gold.interlog.com>
Rendered body type: text/plain

It has been reported to me that 2 of our wide/relay digis are not relay frames with RELAY as the first part of the unproto.

In one case we are using a KPC-2 with mya wide and myn = relay. It is difficult for us to test this digi as it is so far away.

Has anyone seen this problem?

(To Ron by copy)

Did sean has relay as the first part of his unproto string when he was testing this??

cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

402. Zipcodes

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Mon, 20 Nov 95 9:08:47 EST
To: aprssig@tapr.org
Cc: bruninga@greatlakes.nadn.navy.mil
Message-ID: <CMM-RU.1.4.816876527.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

The zipcode data base is available at:

<http://www.census.gov/tiger/resource.html>

Keith Sproul

| | |
|---|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-nr.rutgers.edu/~ksproul/ | 908 821-4828 Home |

403. RE: [APRSSIG:4519] KPC 3 Tracker

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 20 Nov 1995 08:15:57 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAB721.9FE37E00@lub08.onramp.net>
Rendered body type: text/plain

Well, I'm no Ron Kramer but... it works fine for me.

You have to type

LTRACK n

where n is the number of past positions you want to review.

Remember though, that the track buffer only holds posits that have been beacons based on the intervals set by BLT. If BLTs are all 00:00:00 then there will be no track.

Larry Griffin <largriff@onramp.net>

From: rwf[SMTP:rwf@mindspring.com]
Sent: Sunday, November 19, 1995 8:30 PM
To: aprssig@tapr.org
Subject: [APRSSIG:4519] KPC 3 Tracker

Folks- (sort of directed to Ron Kramer, since he is a KPC3 expert)

A couple of us have been playing KPC-3 stand alone tracker this weekend. We have noticed something that puzzles us.

I played with the GPS options in the KPC3 and have it working correctly except for this:

We are supposed to connect to the PBBS and use the LTRACK command to dump the track history.

Won't work. The PBBS doesn't seem to know what the LTRACK command is.

Has anyone gotten this to work?

RE: [APRSSIG:4516] ID packets

Larry Griffin <largriff@onramp.net>

To keep ID packets from overwriting good BTEXT data on the L-LIST, APRS has always ignored ID packets UNLESS THEY are the FIRST packet received

> Do it every .5 mile. Or whatever.

APR REPLY: I disagree. Always go out 10 miles, or the value is meaningless compared to the standard. You can use any number of points at any spacing you want, but there should be enough to get a good average representative value. That is your HAAT. If you have hills in one direction, that is why APRS allows you to OFFSET your pattern in a favored direction...

406. Re: [APRSSIG:4525] RE: KPC 3 Tracker

From: rwf@mindspring.com
Date: Mon, 20 Nov 1995 10:42:14 -0500
To: aprssig@tapr.org
Message-ID: <199511201542.KAA25907@borg.mindspring.com>
Rendered body type: text/plain

OK Thanks, I'll look again- but I don't think Kantronics said that in the instruction addendum for Ver 6.0

Thanks again!

Ralph

At 08:37 AM 11/20/95 -0600, you wrote:
>Well, I'm no Ron Kramer but... it works fine for me.
>
>You have to type
> LTRACK n
>where n is the number of past positions you want to review.
>
>Remember though, that the track buffer only holds posits that have been
>beaconed based on the intervals set by BLT. If BLTs are all 00:00:00 then
>there will be no track.
>
>Larry Griffin <largriff@onramp.net>
>
>-----
>From: rwf[SMTP:rwf@mindspring.com]
>Sent: Sunday, November 19, 1995 8:30 PM
>To: aprssig@tapr.org
>Subject: [APRSSIG:4519] KPC 3 Tracker
>
>Folks- (sort of directed to Ron Kramer, since he is a KPC3 expert)
>
>
>A couple of us have been playing KPC-3 stand alone tracker this weekend.
>We have noticed something that puzzles us.
>
>
>I played with the GPS options in the KPC3 and have it working correctly
>except for this:
>
>We are supposed to connect to the PBBS and use the LTRACK command to dump
>the track history.
> Won't work. The PBBS doesn't seem to know what the LTRACK command is.
>
>The buffers are set up properly, per the instrux here and in the manual.
>
>Has anyone gotten this to work?
>
>
>Attachment Converted: C:\MSPRING\EUDORA\WINMAIL2.DAT
>
>

407. Re: [APRSSIG:4522] Re: KPC 3 Tracker

From: rwf@mindspring.com
Date: Mon, 20 Nov 1995 10:42:19 -0500
To: aprssig@tapr.org
Message-ID: <199511201542.KAA25934@borg.mindspring.com>
Rendered body type: text/plain

The docs say to connect to the PBBS (and then and type LTRACK.)
Larry suggested LTRACK n, so I'm now gonna try that one

Thanks for the suggestion
Ralph

At 04:54 AM 11/20/95 -0600, you wrote:
>Do you connect to the PBBS or the REMOTE?? Connecting to the REMOTE
>gives you access to all the KPC-3's commands.
>
>Just a thought...
>
At 02:29 AM 11/20/95 -0600, you wrote:
>>Folks- (sort of directed to Ron Kramer, since he is a KPC3 expert)
>>
>>
>>A couple of us have been playing KPC-3 stand alone tracker this weekend.
>>We have noticed something that puzzles us.
>>
>>
>>I played with the GPS options in the KPC3 and have it working correctly
>>except for this:
>>
>>We are supposed to connect to the PBBS and use the LTRACK command to dump
>>the track history.
>> Won't work. The PBBS doesn't seem to know what the LTRACK command is.
>>
>>The buffers are set up properly, per the instrux here and in the manual.
>>
>>Has anyone gotten this to work?
>>
>>
>>
>
>

408. Re: [APRSSIG:4527] Re: HAAT formula?

From: ke4eer@ro.com (William Nolle)
Date: Mon, 20 Nov 1995 10:19:05
To: aprssig@tapr.org
Message-ID: <199511201726.LAA19769@sh1.ro.com>
Rendered body type: text/plain

The info i have seen and i believe it was directly from the source that the FCC uses. It stated go out a 15 miles and take the info in 1 mile steps. Now you can do it anyway you want but that's the only correct way. I see so many Ego Digi's (And users) that are so far off making the PHG setting useless!!!

Bill KE4EER
ke4eer@ro.com

>
>On Mon, 20 Nov 1995, rwf wrote:
>
>> >For instance, I have hills higher than my roofline, both south and west,
>> >closer than 2 miles distance. In the above formula, those hill would not
>>
>> So Richard, Don't go out 10 miles in 2 mile increments. You didn't say
>> whether it was for a digi or a home QTH.
>> Change it so you get an "average" for *your* situation
>> Do it every .5 mile. Or whatever.
>
>APR REPLY: I disagree. Always go out 10 miles, or the value is
>meaningless compared to the standard. You can use any number of points
>at any spacing you want, but there should be enough to get a good average
>representative value. That is your HAAT. If you have hills in one
>direction, that is why APRS allows you to OFFSET your pattern in a
>favored direction...
>

409. Re: [APRSSIG:4520] SSID vehicle identifiers

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 20 Nov 1995 11:59:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951120104553.18450C-100000@greatlakes>
Rendered body type: text/plain

On Mon, 20 Nov 1995, rwf wrote:

> and told it I was a "bike". Each time I showed up as a balloon. This even
> happened during our Atlanta workshop with Bob APR, but

APR REPLY: Yes the docs and program were different. The Sailboat,
Helo and Bike/Bus SSID's and the APRS program were different.
Hoepfully the new DOCs with 74b match the program...

> 2. W6PNC turns into a "Moving Lighthouse" rather than his normal symbol
> mobile. If this is a glitch why would it stay as this symbol rather
> than correcting itself on the next transmission?

APR REPLY: The symbol is established on the FIRST receipt of a posit.
>From then on, only the POSIT is updated... This is the required logic
(although I cant remember the exact reason now). And we do see this
occasionally. More testing needed, but Im sure it is because of a
garbled HSP switching in the middle of a posit

> I set up the Beacon every one min and set up the correct unproto. I set the
> Btext as follows: BT !3355.00N/08466.47W with the Call of N4NEQ-15

APR REPLY: THE ONLY TIME THE SSID IS INTERPRETED AS A SYMBOL is when the
pakeket contains RAW gps data... Not a BText...

> BT !3355.00N/08466.47W/{v}

APR REPLY: to do this, just put v after the W... Again, the {v} is only
for stand-alone trackers outputting RAW gps data. Then the {v} must be
the first 3 chars in the BText (not a posit)

410. Re: [APRSSIG:4523] RELAY-WIDE

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 20 Nov 1995 12:02:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951120120048.18450D-100000@greatlakes>
Rendered body type: text/plain

On Mon, 20 Nov 1995, Mike Walker wrote:

> It has been reported to me that 2 of our wide/relay digis are not
> relaying frames with RELAY as the first part of the unproto.

APR REPLY: This is very difficuult to test! hi hi Since every APRS
station that hears your test is going to respond, then you have no way of
knowing what comes back. Better find someone that lives real close to
the DIGI and can run a beam and low power to be SURE the digi is using
RELAY.

411. Re: [APRSSIG:4527] Re: HAAT formula?

From: rwf@mindspring.com
Date: Mon, 20 Nov 1995 12:02:00 -0500
To: aprssig@tapr.org
Message-ID: <199511201702.MAA13256@borg.mindspring.com>
Rendered body type: text/plain

At 09:51 AM 11/20/95 -0600, Bob wrote:

>
>On Mon, 20 Nov 1995, rwf wrote:
>
>> >For instance, I have hills higher than my roofline, both south and west,
>> >closer than 2 miles distance. In the above formula, those hill would not
>>
>> So Richard, Don't go out 10 miles in 2 mile increments. You didn't say
>> whether it was for a digi or a home QTH.
>> Change it so you get an "average" for *your* situation
>> Do it every .5 mile. Or whatever.
>
>

What I meant by my suggestion was to not use 2 mile increments, use .5 mile
or whatever fits his case.
Yes, of course you have to go 10 miles to get a good average.

Ralph

>
>

412. Re: [APRSSIG:4523] RELAY-WIDE

From: n8mwz@alpha.wcoil.com (Bob Hartman)
Date: Mon, 20 Nov 1995 12:46:41 -0500
To: aprssig@tapr.org
Message-ID: <199511201746.MAA21107@alpha.wcoil.com>
Rendered body type: text/plain

>It has been reported to me that 2 of our wide/relay digis are not relay frames
>with RELAY as the first part of the unproto.
>
>In one case we are using a KPC-2 with mya wide and myn = relay. It is
>difficult for us to test this digi as it is so far away.
>
>Has anyone seen this problem?

>Mike Walker mwalker@interlog.com

We had the same problem here with our KPC-3. It turns out that when you use the "MYNode" call for Relay (or whatever) you have to set "USERS" to at least one and NUMnodes to one, also. You then also have the added convenience of being able to actually use it as a node by doing a conventional connect to "relay" to aid in dropping a short message in someone's maildrop.

Bob Hartman - N8MWZ@AMSAT.ORG

413. Canadian Garmin Dealer

From: Michael Walker <mwalker@gold.interlog.com>
Date: Mon, 20 Nov 1995 12:55:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9511201252.A14225-0100000@gold.interlog.com>
Rendered body type: text/plain

For those who wanted to know, I have found a Canadian Garmin Dealer who has stock of Garmin 45's.

Shortwave Marine
109 Lakeshore road east
Port Credit, ON
L5G 1E2

905-278-6541.

The canadian price is \$490 Plus what ever taxes. They will ship anywhere in Canada. It is a fair price compared to the US\$ price.

cheers...mike

Michael Walker
mwalker@interlog.com
VA3MW

414. KPC 3 Tracker (How TO)

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 20 Nov 1995 12:46:00 -0600
To: aprssig@tapr.org
Message-ID: <v02130501acd679c0db2e@[199.1.11.102]>
Rendered body type: text/plain

A short version of this note is a file called KPC3.TXT in Bobs APRS README directory of the APRS DOCS.

How to use the KCP-3 TNC as a remote GPS Tracker (Rev 1.1)
=====

Setting for which NEMA sentences you want to record or beacon
You get to set up to 4. I use only two

GPSHEAD
1 \$GPGGA
2 \$GPRMC
3
4

The LT buffer filled with real GPS data

LT
1 \$GPGGA,064301,3250.743,N,09645.669,W,1.05,2.6,236.7,M,-24.8,M,,*71

```

2 $GPRMC,064303,A,3250.742,N,09645.668,W,002.4,121.2,040695,,*06
3
4

```

The LT buffer when the GPS is not seeing any satellites.

```

LT
1 $GPGGA,100552,,,,,0,00,,M,,M,,*65
2 $GPRMC,100551,V,,,,,,020695,,*39
3
4

```

Setting the beacon time for the GPS data (Also the storage time)
 I use \$GPGGA two times a min and \$GPRMC once a min.
 Note the offset so RELAY stations have time to respond

```

BLT
1 EVERY 00:00:30
2 EVERY 00:01:10
3 EVERY 00:00:00
4 EVERY 00:00:00

```

Setting for the output APRS format

```

LTP
1 APRSM VIA RELAY
2 APRSM VIA RELAY,WIDE
3 NONE
4 NONE

```

Setting the buffer storage inside the TNC to save the GPS data.

```

LTRACK
LTRACK 5 LT1 LT2 LT3 LT4 or
LTRACK 5 LT2 for only saving the LT2 data which is $GPRMC
per the GPSHEAD setting.

```

With the standard 32K of memory 17 is the largest I could set this value. You can add more memory to the TNC for a larger buffer.

Note the data is stored in the buffer at the rate set by the BLT beacon command and not the rate the GPS sends data to the TNC.

```

INTERFACE GPS          When the TNC is next powered off/on it will start
in GPS mode.          INTFACE { TERMINAL | NEWUSER | BBS | KISS | HOST |
GPS }

```

I also use the Software CD setting.
 CD SOFTWARE

How to READ GPS track DATA from the TNC buffer:
 =====

You can read the TNC buffer data remotely via radio or by attaching a local computer to the RS-232 port.

login to the TNC BBS as callsign-1

LTRack n [string] will DISPLAY LAST n MSGS IN TRACK BUFFER

```

LTRACK 50          Read 50 lines of data from the buffer
LTRACK 50 $GPGGA    Read 50 lines of $GPGGA data from the buffer.

```

The data is dumped back in LIFO format (last in first out). That is:
 it is backward of what you are expecting for a trip log.
 I use Mac BBEdit program to reverse the lines.
 The data will plot with APRS even if the trip log is backwards.

1. ### The next person to call KAM might want to ask them why the buffer reads back backwards. ###
2. The remote login is to change parameters.
3. To see the LTRACK command using callsign-1 login it might be that you must be the same callsign ?? Let me know if so and I will change the note.

Bob - Dallas, TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

415. Access to aprssig/upload

From: bob <w2g3zfj@unix.asb.com>
 Date: Mon, 20 Nov 1995 14:00:22 -0600
 To: aprssig@tapr.org
 Message-ID: <199511202000.OAA03007@UNIX.asb.com>
 Rendered body type: text/plain

Hi There

I have been trying to upload some files to the tapr aprssig upload directory today but can't seem to access the location either via ftp or via the www. Has anyone else seen this?

I want to upload some maps of Long Island and other stuff!

73 de bob w2/g3zfj

w2g3zfj@unix.asb.com

416. Re:Garmin 45 Antennas

From: JeffS5@aol.com
 Date: Mon, 20 Nov 1995 14:55:37 -0500
 To: aprssig@tapr.org
 Message-ID: <951120145534_111836461@mail04.mail.aol.com>
 Rendered body type: text/plain

Sorry, bait n' switch is not allowed. You mentioned that that Magellan antenna is much cheaper than the Garmin and went on to mention the price of the Garmin instead. So. . . . How much is the Magellan? That's what I wanna know.

Also, the 4 pin XLR connector does work on the -45

cul, Jeff - WA6EQU

417. Re: [APRSSIG:4538] Re:Garmin 45 Antennas

From: Paul Moller <Paul_Moller@csg.mot.com>
 Date: Mon, 20 Nov 1995 14:57:11 -0600
 To: aprssig@tapr.org
 Message-ID: <199511202057.OAA01464@OAMPC10.csg.mot.com>
 Rendered body type: text/plain

And where does one get the 4 pin XLR connector from?

Paul, WD9ABE

>

>Also, the 4 pin XLR connector does work on the -45

>

>cul, Jeff - WA6EQU

>

>

>

418. How do I upload??

From: bob <w2g3zfj@unix.asb.com>
 Date: Mon, 20 Nov 1995 17:23:45 -0600
 To: aprssig@tapr.org
 Message-ID: <199511202323.RAA05471@UNIX.asb.com>
 Rendered body type: text/plain

Hi there, how do I upload to the aprssig/upload directory? I thought I just configured ftp to point to the address with an anonymous login but it keeps on saying connection failed. Can anyone help?

Thanks

73 de bob w2/g3zfj
 w2g3zfj@unix.asb.com

419. Garman GPS mobile antenna for about \$17.00

From: jkerns@usit.net (jim kerns)
Date: Mon, 20 Nov 1995 17:23:26 -0500
To: aprssig@tapr.org
Message-ID: <199511202218.RAA09113@use.usit.net>
Rendered body type: text/plain

I have seen numerous questions about obtaining Garman GPS mobile antennas.

For what it is worth I have a Garman 50 which has a removable BNC connected antenna. I went to the local Radio Shack store and purchased a window mount 2 meter antenna base which includes the coax and the mo8unt with BNC connector. No antenna is included. Price for part number 20-023 \$14.95 plus tax. get a 90 degree BNC adapter also at radio shack to make your GPS antenna point straight up, hang on your vehicle window and your in business for APRS/GPS mobile for around \$17.00 to \$19.00. I used mine across country and it works fine except in very near, steep canyons where the antenns looses LOS, as I presume any antrenna would.

Hope this helps someone looking for a reasonable priced, no build mobile receiving antenna for their GPS.

73
Jim Kerns, N4PUQ
(Certinally nowhere near the Great Lakes) Hi.

420. Re: [APRSSIG:4519] KPC 3 Tracker

From: rkramer@cdx.net (Ronald Kramer)
Date: Mon, 20 Nov 1995 22:43:30 GMT
To: aprssig@tapr.org
Message-ID: <199511202244.QAA15780@sys1.tapr.org>
Rendered body type: text/plain

On Mon, 20 Nov 1995 02:29:55 -0600 (CST), you wrote:

>Folks- (sort of directed to Ron Kramer, since he is a KPC3 expert)
>

Thanks for the compliment, but there are hams on this sig that have a lot more experiance and knowlege than I do...

>
>A couple of us have been playing KPC-3 stand alone tracker this weekend.
>We have noticed something that puzzles us.
>
>
>I played with the GPS options in the KPC3 and have it working correctly
>except for this:
>
>We are supposed to connect to the PBBS and use the LTRACK command to dump
>the track history.
> Won't work. The PBBS doesn't seem to know what the LTRACK command is.
>
>The buffers are set up properly, per the instrux here and in the manual.
>
>Has anyone gotten this to work?

Whait is sounds like to me is that you did not set your LTRACK buffers before you went to the GPS mode. If you did not do this when you connect to the PBBS you will not see the LT command in the prompt line.
Go back to terminal mode and set your LTRACK buffers

LTRACK 15 LT1 LT2 LT3 LT4

This will set your ltrack buffers to 15 k of ram and it will save any beacons that are sent out with any of your 4 beacon paths.

Also suggest you read KPC3.TXT that is part of the readme directory that comes with APR

Hope that this helps you out.... have fun.... it's a HOBBY

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

421. Re: [APRSSIG:4540] How do I upload??

From: rkramer@cdx.net (Ronald Kramer)
Date: Mon, 20 Nov 1995 22:51:05 GMT

To: aprssig@tapr.org
Message-ID: <199511202251.QAA16203@sys1.tapr.org>
Rendered body type: text/plain

On Mon, 20 Nov 1995 16:39:39 -0600 (CST), you wrote:

>Hi there, how do I upload to the aprssig/upload directory? I thought I just
>configured ftp to point to the address with an anonymous login but it keeps
>on saying connection failed. Can anyone help?

>

>Thanks

>

>73 de bob w2/g3z fj

>w2g3z fj@unix.asb.com

>

I have had the same problem this weekend, I beleive the Server has
been down, at least on Sunday, I have not checked it today yet.

Just set FTP server to ftp.tapr.org
go to the sig/aprssi g/upload directory
and ftp your file
make shure you upload it in BINARY mode !!!!!
hope this helps Happy Packeting..... have fun It's a HOBBY

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

422. Long Island Maps and mkmaphk1 notes

From: w2g3z fj@unix.asb.com (bob)
Date: Mon, 20 Nov 1995 19:36:56 -0500
To: aprssig@tapr.org
Message-ID: <199511210139.TAA07145@UNiX.asb.com>
Rendered body type: text/plain

To all fellow APRS'ers

I have finally had time, since moving to Long Island, to do some
mapmaking. Thanks to the mkmaphk1 program I have mapped all of LI
with 5mile range maps and the immediate area around my home QTH
(Sayville) with 1 mile maps. I have uploaded these to the tapr site
as limaps.zip. I have also included this file as a readme and
maplist.lil. There are not as many labels as I would have liked, I
will continue to revise them and add labels as time permits. I figured
that if you're interested in a particular area you could always add
labels yourself!

I still see some messages on the sig regarding how to make
maps using mkmaphk1 and I have written a 'step-by-step' account of how I
do it. Hope it helps someone. By the way, I only use the CDRom, I agree
with Bob, APR that its much less hassle than trying to get the files by ftp!

=====

1. Make a directory on your hd with nothing in it e.g. d:\aprs\dlg, to hold
the extracted files.

2. Use the USGS extract program and follow the instructions on screen to
extract the files for the area you need. Note, this may take many megabytes
of disc space (typically ~30Mb for the areas I've been doing).

3. Make a directory containing mapfix68.exe and mkmaphk1.exe e.g. d:\aprs\usgs

4. Run mkmaphk1

5. Enter the path to the CDRom files. d:\aprs\dlg

6. Enter the file name for your map with no extension. I use a system like
this:-

AABCCDEE

where AA=two letter ident for area e.g. 'li'
B=last digit of latitude e.g. '0' for 40 deg
CC=minutes of latitude e.g. '34' for 34 minutes
D=last digit of longitude e.g. '3' for 73 deg
EE=minutes of longitude e.g. '14' for 14 minutes

so a typical file name would be li034314 meaning a map based upon a center
of 40 deg 34' and 73 deg 14'. All of the files in limaps.zip are based upon
this
system, where li=5 mile maps and ll=1mile maps.

7. Enter the latitude of the maps center. e.g. 40,34

8. Enter the longitude of the maps center. e.g. 73,14

9. Enter the range with/without a modifier (+/-). I've found that 5mile range maps on LI can be made with -5 and down to -3 when in the city. No modifier and + selections cause the program to crash with too much detail. I have made 1 mile range maps using 1.2, this shows all side roads.

10. Wait while the program does its stuff and draws the maps on the screen. This takes a few minutes on my DX2-66 with Windows 95. Watch out when it links the map. I have found that mkmapk1 sometimes misses features in its final step. When it presents the option to 'press any key to see how the map appears in aprs' watch carefully! Especially with 1 mile maps the final smoothing process can sometimes go awry! You may find that all of your smooth radii turn into triangles. If this happens don't panic! Press any key again and get back to the dos prompt. NOTE: If you want to run mkmapk1 again with the same file name to try a different range etc then make sure you delete the previous files AND the temp file as I have found that if you don't you can confuse it!

11. Run mapfix68

12. Load the file you have just generated, if the smoothing went screwy then enter the filename as name.dat instead of name.map. This will load the unsmoothed version.

13. Enter alt-S to smooth the file, select 1.2.

14. When it finishes look out for any strangeness, e.g. diagonal lines across the map. These usually originate at 0,-1 co-ordinates and arise from single line items in the map file. If you find one, move the cursor to close to the end of the line (usually near 0,-1) type 'F' to find the point and alt-D to delete it. (This usually fixes it, if it doesn't you may have to edit the mapfile using a text editor and search for single items and delete them.)

15. Add any labels you want, move the cursor to the location, type alt-L enter the name and range you want it to appear. I have noticed that in my copy of mapfix68 this doesn't always work first time, sometimes I have to do it twice, maybe a bug?

16. Type ctrl-S to save the file and exit mapfix68.

17. Using a text editor, create a new maplist. I use maplist.zfj for most of my experimentation rather than messing up the distro maplist. Place your new map entry after the next larger scale map for that area and before any smaller scale maps. For example in maplist.li the 5 mile maps appear after usaeast.map and before any 1 mile maps covering the same area. Set the range so that the maps appear when they should, try setting it to 6 for the 5 mile maps. Examine maplist.li1 as an example and read Bob, APR's notes on this.

18. Run aprs, enter M (for map menu) and C (to change maplist), enter your new maplists extension. Zoom into your new map and try it out!

=====

I hope this helps someone, if you need any more advice feel free to drop me a line at w2g3zfj@unix.asb.com.

I also have several maps that I have digitised of the St Pete area in Florida and of North West England and Liverpool if anyone is interested.

If you need a small map of your location and its on my CD ROM then I don't mind helping out but don't expect millions of maps!!

73 de bob w2/g3zfj
APRS registered since version 4.03

423. Re: [APRSSIG:4543] Re: How do I upload??

From: rwf <rwf@mindspring.com>
Date: Mon, 20 Nov 1995 19:40:16 -0500
To: aprssig@tapr.org
Message-ID: <199511210040.TAA28095@borg.mindspring.com>
Rendered body type: text/plain

Nuh Uhh!

it is tapr/SIG/aprssig/upload

the SIG in capitals is important. Someone wasn't thinking when he created that directory.. or maybe he was.

And just in case you didn't know- I think it wants the anonymous login to have your email address as the password.

Somebody typed (and the mail list echoed):

```
>Just set FTP server to      ftp.tapr.org
>go to the .... sig/aprssig/upload directory
>and ftp your file
>make shure you upload it in BINARY mode !!!!!
```

424. Thanks for upload help

From: w2g3zfej@unix.asb.com (bob)
Date: Mon, 20 Nov 1995 19:45:22 -0500
To: aprssig@tapr.org
Message-ID: <199511210148.TAA07267@UNIX.asb.com>
Rendered body type: text/plain

Thanks for the upload help. As it turned out I was using the wrong address!

73 de bob

425. Re: [APRSSIG:4519] KPC 3 Tracker

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 20 Nov 1995 20:47:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.951120204433.2144C-100000@laraby.tiac.net>
Rendered body type: text/plain

On Mon, 20 Nov 1995, rwf wrote:

```
>
> We are supposed to connect to the PBBS and use the LTRACK command to dump
> the track history.
> Won't work. The PBBS doesn't seem to know what the LTRACK command is.
>
> The buffers are set up properly, per the instrux here and in the manual.
-----
```

I'm now expert, but I (now) have 2 KPC-3's

I would think you would need to connect to the KPC via the remote command (the command that lets you change *anything*), not the PBBS. Remote access is just like a direct hardwire connection to a computer, only via radio.

| | | |
|-------------------|-----------------|---------------------------|
| Richard Amirault | N1JDU | Boston, Massachusetts USA |
| amirault@tiac.net | "Go Fly A Kite" | |

426. Tapr Down?

From: ke4eer@RO.COM (William Nolle)
Date: Mon, 20 Nov 1995 20:00:51
To: aprssig@tapr.org
Message-ID: <199511210308.VAA13885@sh1.ro.com>
Rendered body type: text/plain

Looks like Tapr.org is down, if so this won't get anywhere either Hi..

427. Re: [APRSSIG:4547] Re: KPC 3 Tracker

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>
Date: Mon, 20 Nov 1995 21:10:04 -0500
To: aprssig@tapr.org
Message-ID: <30B134FC.7BF1@wingsbbs.com>
Rendered body type: text/plain

Richard Amirault wrote:

```
>
> On Mon, 20 Nov 1995, rwf wrote:
>
> >
> > We are supposed to connect to the PBBS and use the LTRACK command
to dump
```



```

> > the track history.
> > Won't work. The PBBS doesn't seem to know what the LTRACK
command is.
> >
> > The buffers are set up properly, per the instrux here and in the
manual.
> -----
>
>
> I'm now expert, but I (now) have 2 KPC-3's
>
> I would think you would need to connect to the KPC via the remote
command
> (the command that lets you change *anything*), not the PBBS. Remote
> access is just like a direct hardwire connection to a computer,
only via
> radio.
>
> Richard Amirault          N1JDU          Boston,
Massachusetts USA
> amirault@tiac.net          "Go Fly A Kite"

```

No, there is a way.. I have done it using the PBBS.. Holds a user settable amount of Track lines from the GPS.

Neat way to see where a Stand alone tracker has been when it was out of range.

Sam - WJ8T

428. Re: [APRSSIG:4548] Tapr Down?

```

From: jkeck@smartlink.net (james keck)
Date: Mon, 20 Nov 1995 18:31:44 -0800
To: aprssig@tapr.org
Message-ID: <199511210232.SAA20221@warp10.smartlink.net>
Rendered body type: text/plain

```

Hi....

>Looks like Tapr.org is down, if so this won't get anywhere either Hi..

Your message came through to the West Coast in near record time...
It is now 2030 CST and 1830 PST...

73...Jim

429. KPC3 & WX (need help)

```

From: Ann Reeves <annr@comtch.iewa.com>
Date: Mon, 20 Nov 1995 19:11:17 -0800 (PST)
To: aprs <aprssig@tapr.org>
Message-ID: <Pine.SV4.3.91.951120190208.27616F-100000@comtch>
Rendered body type: text/plain

```

We have several KPC3s on mountain tops acting as NODES and WIDES for APRS. We would like to add UltimeerIIs to operate remotely but need some help.

The WX.TXT says that it would be easy with PACCOMM TNC to set up remotely. Ours are the KPC3 but they are version 6 with GPS capability so can I still do it. (how??)

If not then the readme file talks about OTHER TNCs that could be queried. But I don't understand the first instruction, "Install a data switch so that U-II data is only input to the TNC when the TNC is connected by either wiring to the CONNECTED LED of to the DCD line if implemented." Exactly how do I connect things??

Also, if we set this up to operate for weather, will it mess us up when we use the nodes in regular packet rather than APRS??

Any help/advice would be appreciated.

73, Ann WA7ROS & Jim WA7RVV

430. Re: [APRSSIG:4550] Re: Tapr Down?

```

From: ke4eer@ro.com (William Nolle)
Date: Mon, 20 Nov 1995 21:11:26
To: jkeck@smartlink.net, aprssig@tapr.org

```

Message-ID: <199511210419.WAA17094@sh1.ro.com>
Rendered body type: text/plain

Ok thanks Jim i went back and was back online with what i see are some changes hi. If you D/L those 100K files now they don't have the long filename anymore. (HYF3.OPT.GZ). But you still have to rename them,

Bill KE4EER
ke4eer@ro.com

> Hi....
>
>>Looks like Tapr.org is down, if so this won't get anywhere either Hi..
>
> Your message came through to the West Coast in near record time...
> It is now 2030 CST and 1830 PST...
>
> 73...Jim
>

431. Re: [APRSSIG:4548] Tapr Down?

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Mon, 20 Nov 95 23:05:36 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.816926736.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

TAPR did an upgrade to the software yesterday.. This caused several 'problems'. But they did warn us ahead of time..

At the moment, the List Server is working fine, and to the best that I can tell, the FTP server seems to be working too.. It WAS down most of the day..

Keith

| | |
|---|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www.ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

432. Re: [APRSSIG:4499] HAAT formula?

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Sat, 18 Nov 95 17:14:53 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511182315.RAA00716@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

Refer to ARRL Amateur Radio Handbook. Mine is 94 version on page 14-2,3.

Get USGS topo map of site.
Take site, extend 8 radials from it at multiples of 45deg (0,45,90,135,180..315). Go out 10 miles.
Determine from USGS topo map terrain elevation on each radial for each 2 miles to the 10 mile extent.
You will end up with 40 numbers. 8 radials with 5 elevations for each radial.
Divide the 40 numbers by 40. You will get the average terrain (AT) within a ten mile circle.
HAAT= MSL elevation of tower base + Antenna Height (Center of Radiation) - AT
ie: HAAT = 774' + 180' - 826.4 = 127.5' which is HAAT of WA9CJN-15
I hope that's right.
----- REPLY, Original message follows -----

> Date: Saturday, 18-Nov-95 03:05 PM
>
> From: Gregory R. LaBorde \ Internet: (laborde@kilroy.jpl.nasa.gov)
>
> To: APRS SIG \ Internet: (aprssig@tapr.org)
>
> Subject: [APRSSIG:4499] HAAT formula?
>
> Could someone post the procedure for determining HAAT? I have one, but I am not
> sure it is correct.
>
> -Greg

>
> --
> Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.
gov
> Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.
org
> Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#50CA.CA.USA.
NA
> M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
> Pasadena, CA 91109 |
>
>

----- REPLY, End of original message -----

--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W

433. Re: [APRSSIG:4540] How do I upload??

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 20 Nov 1995 23:53:08 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951120235250.744A-100000@greatlakes>
Rendered body type: text/plain

I think sompins wrong. I tired to upload too

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

434. Re: [APRSSIG:4551] KPC3 & WX (need help)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 21 Nov 1995 00:04:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951121000117.744D-100000@greatlakes>
Rendered body type: text/plain

On Mon, 20 Nov 1995, Ann Reeves wrote:

> We have several KPC3s on mountain tops acting as NODES and WIDES for
> APRS. We would like to add UltimeterIIs to operate remotely but need
> some help.

APR REPLY: Just set up the KPC3 GPSTEXT stuff to look for a single # (or
) depending on which one your U-II outputs instead of the usual \$GPGGA
kind of thing that it normally looks for in GPS mode. The U-II beings
with a # (or a *) and just like for GPS, the TNC will put the WX report
in the LText buffer for transmission at a rate you specify. Thats it...
Oh yes, put the usual POSIT in the BText and be sure to use the underline
character for the SYMBOL character...

435. KPC-3 DIGI

From: "John W. (Bill) Hays, W00MV" <billh@netins.net>
Date: Mon, 20 Nov 1995 23:20:28 CST
To: aprssig@tapr.org
Message-ID: <00999B27.3E2A4B31.179@netins.net>
Rendered body type: text/plain

What should we use for the parameters (other than the default) when using
the KPC 3 as a stand alone digi for a wide area digi?
73m Bill w00mv

436. Re: [APRSSIG:4549] Re: KPC 3 Tracker

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 20 Nov 1995 23:22:21 -0600
To: aprssig@tapr.org
Message-ID: <v02130500acd70ec6d553@[199.1.11.161]>
Rendered body type: text/plain

>Richard Amirault wrote:
>>
>> On Mon, 20 Nov 1995, rwf wrote:

```
>>
>> > We are supposed to connect to the PBBS and use the LTRACK command
>   to dump the track history.
>> > Won't work. The PBBS doesn't seem to know what the LTRACK
>> -----
>No, there is a way.. I have done it using the PBBS..
```

Answer:

I thought my "HOW TO" posting covered this but here is a
"REAL LIFE" over the radio sample.
lower case lines are what you type.

```
-----
c kc5ejk-1
KC5EJK-1*>KC5EJK (UA,F)
*** CONNECTED to KC5EJK-1
KC5EJK-1*>KC5EJK [I;0,0]:[KPC3-6.0-HM$]
5000 BYTES AVAILABLE
THERE ARE NO MESSAGES
ENTER COMMAND: B,J,K,L,R,S, or Help >
ltrack 10
KC5EJK-1*>KC5EJK (RR,F;1)
KC5EJK-1*>KC5EJK [I;1,1]:$GPGGA,045835,,,,0.00,,M,,M,,*69
$GPGGA,045734,,,,0.00,,M,,M,,*67
$GPGGA,045633,,,,0.00,,M,,M,,*61
$GPGGA,045534,3250.780,N,09645.813,W,1.03,3.0,120.9,M,-24.8,M,,*75
$GPGGA,045433,3250.793,N,09645.786,W,1.04,3.0,159.2,M,-24.8,M,,*70
$GPGGA,045333,3250.784,N,09645.774,W,1.04,3.0,202.0,M,-24.8,M,,*73
$GPGGA,045234,3250.778,N,09645.744,W,1.03,2.0,218.5,M,-24.8,M,,*7D
$GPGGA,045133,3250.770,N,09645.744,W,1.00,3.0,221.3,M,-24.8,M,,*7F
$GPGGA,045033,3250.771,N,09645.733,W,1.04,3.0,227.6,M,-24.8,M,,*78
$GPGGA,044934,3250.776,N,09645.737,W,1.04,3.0,217.5,M,-24.8,M,,*74
ENTER COMMAND:
b
KC5EJK-1*>KC5EJK (RR,F;3)
KC5EJK-1*>KC5EJK [I;3,1]: >
KC5EJK-1*>KC5EJK [D,P]
*** DISCONNECTED: KC5EJK-1
-----
```

You can do the same thing via the KPC-3 data RS-232 connection
using a computer and not dump the data over the
APRS radio network.

```
-----
Note that the buffer data comes out backwards (LIFO)
see UTC time (HHMMSS) which is first item after $GPGGA,
-----
```

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

437. Tapr problem

From: ke4eer@ro.com (William Nolle)
Date: Mon, 20 Nov 1995 23:37:39
To: bruninga@nadn.navy.mil, aprssig@tapr.org
Message-ID: <199511210645.AAA23607@sh1.ro.com>
Rendered body type: text/plain

I think (No i know your right Bob) there's something wrong with uploading to
Tapr. It said that i tranferred a 1.3 meg file in 4.4sec you talk about speed!.
But then again it realy didn't transfer anything hi. Tapr should have stuck to
the old software, if it ain't broke don't fix it...

Bill KE4EER
ke4eer@ro.com

438. KPC Tracker problem solved!

From: rwf <rwf@mindspring.com>
Date: Tue, 21 Nov 1995 01:01:40 -0500
To: aprssig@tapr.org
Message-ID: <199511210601.BAA29264@borg.mindspring.com>
Rendered body type: text/plain

Thanks to all who sent answers.

Several of you sent suggestions that I should be logging into the remote
sysop address for the TNC instead of the PBBS.
That was not the problem, the PBBS is the correct way, per the docs.
(and Robert Winingham - I have the Kantronics docs here- to answer the

question you put in the help file: anyone can see the buffer unless SYSOP was specified on setup. Then only someone with those privs can see it)

Robert Winingham wrote the notes that are reprinted in the KPC3.TXT file that is now distributed on APRS. He also re posted it here. He was correctly telling me to access the PBBS and type LTRACK n, where n is the number of lines I wish to see from the buffer. The Kantronics docs are WRONG! They only indicate that n is used when setting it up and telling it how many K of RAM to use for the buffer.

The only place I could find it mentioned in Kantronics Docs is on page 9 of the Feb 16th Version 6.0 addendum, and they did a poor job of it there.

Thanks again, all.

Ralph N4NEQ
Atlanta
Home of the famous CALLSIGN, WIDE, GATE, GATE, WIDE, WIDE, RELAY path
user :(
and... the folks who set their home station alias to WIDE and Beacon
RELAY when they are 5 miles from a WIDE digi!

439. Re: Northern IL DIGI

From: "Jerry" <jerdptro@xnet.com>
Date: Tue, 21 Nov 1995 00:09:16 +0000
To: aprssig@tapr.org
Message-ID: <199511210603.AAA29538@flood.xnet.com>
Rendered body type: text/plain

Northern Illinois Ladies and Gents:

I have been talking to our local repeater guys who are thinking of relocating their repeater antenna to a village water tower about 178 ft AGL in the Hanover Park, IL site. They do not have a problem with the idea of putting up some extra hardline and antenna for APRS. I was thinking of a KPC-3 and MFJ Data Radio for a new WIDE.

If you are in the local area, your comments are appreciated. Of course, this contraption will be coordinated by those who coordinate such matters. I think that the site will put the antenna about 1000 MSL.

It should fill in the gap between the WIDE in Chicago and the WIDE to the West of Hanover Park. The approximate coordinates are 4201N 8810W.

Later
Jerry
N9VHW
jerdptro@xnet.com
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

440. Re: [APRSSID:4559] Tapr problem

From: Greg Jones <wd5ivd@tapr.org>
Date: Tue, 21 Nov 1995 00:45:20 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511210645.AAA07346@sys1.tapr.org>
Rendered body type: text/plain

I have passed this message along to lee. I haven't had any problems uploading to the system since we brought it back up.

While doing this message I just shelled out -- did an anonymous ftp to the AOPRS upload are -- uploaded a file and read it. Not one problem.

As for the change -- it was broke -- you just didn't see it :) although you probably did have it affect you.

Cheers - Greg, WD5IVD
Pres TAPR

>

> I think (No i know your right Bob) there's something wrong with uploading to
> Tapr. It said that i tranferred a 1.3 meg file in 4.4sec you talk about speed!.
> But then again it really didn't transfer anything hi. Tapr should have stuck to

> the old software, if it ain't broke don't fix it...
>
> Bill KE4EER
> ke4eer@ro.com
>
>
>

441. Re: [APRSSIG:4562] Re: Tapr problem

From: Greg Jones <wd5ivd@tapr.org>
Date: Tue, 21 Nov 1995 00:54:54 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511210654.AAA08003@sys1.tapr.org>
Rendered body type: text/plain

Forgot to mention -- if you report a problem -- please be more specific on what happened -- where you were and what you were doing....so that we can maybe track the problem down.

Cheers - Greg

>
> I have passed this message along to lee. I haven;t had any problems
> uploading to the system since we brought it back up.
>
> While doing this message I just shelled out -- did an anonymous ftp to the
> AOPRS upload are -- uploaded a file and read it. Not one problem.
>
> As for the change -- it was broke -- you just didn't see it :-) although
> you probably did have it affect you.
>
> Cheers - Greg, WD5IVD
> Pres TAPR
>
> >
> > I think (No i know your right Bob) there's something wrong with uploading to
> > Tapr. It said that i tranferred a 1.3 meg file in 4.4sec you talk about speed!.
> > But then again it realy didn't transfer anything hi. Tapr should have stuck to
> > the old software, if it ain't broke don't fix it...
> >
> > Bill KE4EER
> > ke4eer@ro.com
> >
> >
> >
> >
> >
> >
>

442. MFJ DATA RADIO

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>
Date: Tue, 21 Nov 1995 06:00:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9511210606.A6781-9100000@acme>
Rendered body type: text/plain

A few months ago someone on this sig stated they had purchased several of the MFJ data radio's. Can someone give a report as to how they have been working. I thought the individual was going to put up a string of digis. Thinking of making a purchase - to be used at home, in a standalone tracker and in service as a digi.

Anyone care to comment.

de Joe W8RIK

443. Tapr problem

From: ke4eer@ro.com (William Nolle)
Date: Tue, 21 Nov 1995 05:59:21
To: aprssig@tapr.org
Message-ID: <199511211307.HAA02542@sh1.ro.com>
Rendered body type: text/plain

Gery i just attempted to make a connect to Tapr and all it would to is answer with a failed connection. Using the same settings i have before!

Bill KE4EER
ke4eer@ro.com

444. Tapr problem

From: ke4eer@ro.com (William Nolle)
Date: Tue, 21 Nov 1995 06:02:12
To: aprssig@tapr.org
Message-ID: <199511211310.HAA02626@sh1.ro.com>
Rendered body type: text/plain

Gery i also just attempted to connect to the Tapr server and it's also down!.
Everything may work great for you but not from this end SORRY...

Bill KE4EER

445. LI Maps and Howto

From: bob <w2g3zfj@unix.asb.com>
Date: Tue, 21 Nov 1995 08:39:13 -0600
To: aprssig@tapr.org
Message-ID: <199511211439.IAA00416@UNIX.asb.com>
Rendered body type: text/plain

Hi There

Bob, APR reminded me that my howto notes should really reference
MAPFIX16.EXE not the older mapfix68 that I mentioned. Sorry about that!

73 de bob w2/g3zfj

w2g3zfj@unix.asb.com

446. Re: [APRSSIG:4564] MFJ DATA RADIO

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 21 Nov 1995 09:21:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951121091742.3908B-100000@greatlakes>
Rendered body type: text/plain

On Tue, 21 Nov 1995, Joseph Hussey wrote:

> A few months ago someone on this sig stated they had purchased several
> of the MFJ data radio's. Can someone give a report as to how they have
> been working. I thought the individual was going to put up a string of

APR REPLY. I bought 5 and have two hooked up. They seem to be just
fine. We used them at the marine corps marathon in a tent full of other
HAM communicators and they were clean. They ARE NOT at digi sites yet,
but I am pleased. Remember you MUST use a TNC with software DCD,
however, since there is no squelch. Although they quoted me a price of
\$119 for the radio and \$14 more for being tuned up on 145.79, The ad I
saw in QST was a little more for the 145.79 option... I havent measured
power out, but I have heard that the 5 watts is a maximum at 13.8 and
there is no VSWR protection...

447. Sony Navigator / Trimble Locator 110

From: CCVFS.DRAWING@capital.ge.com
Date: Tue, 21 Nov 1995 10:48:06 -0500
To: "aprssig(a)tapr.org" <aprssig@tapr.org>
Message-ID: <0013800001313810000002*@MHS>
Rendered body type: text/plain

I'm sure these are not brand new products but I was wondering if
anyone has used either of these?

Sony Navigator. For those who have not seen it, it has a screen
that's looks to be about 3x3. It has a remote located GPS patch
antenna and a CD player. The CD's cost \$150.00 each if you are a
subscriber to the service and the unit itself runs about \$3000.00.

I'm currently awaiting a data sheet and I have also asked for a copy
of the spec's from the manual. The local mobile electronics place
here only has 2 in stock and they are located in other stores.

Has anyone used or played with this unit? Looks very interesting.

The other neat thing I saw this weekend was the Trimble Locator 110.
This is a GPS unit the size of a mouse. It's self powered and was
designed to work with the Apple Newton. From the picture it appears
to have the Mac serial port connector on the end of the data cable.
The ad doesn't state that it's anything more than just a GPS receiver.
I called Trimble this morning and requested information and pricing.

Has anyone used this unit?

Please respond to me at ccvfs.drawing@capital.ge.com if you have any knowledge of these products.

Thanks,
Dana

448. MFJ Data Radio

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Tue, 21 Nov 95 10:49:17 UTC
To: aprssig@tapr.org
Message-ID: <10442@paccomm.com>
Rendered body type: text/plain

Joseph Hussey asked about the radios and Bob Bruninga replied, in part:
"Remember you MUST use a TNC with software DCD, however, since there is o squelch."

I'd like to comment that the TNC needs to be able to operate with an unsquelched radio, but the method of accommodating this (hardware or software) isn't germane.

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org

PacComm Packet Radio Systems, Inc. +(813) 874-2980 Fax: +(813) 872-8696
4413 N. Hesperides St. BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA info@paccomm.com <http://www.paccomm.com/info>

449. Tapr Problem

From: ke4eer@ro.com (William Nolle)
Date: Tue, 21 Nov 1995 15:06:56
To: aprssig@tapr.org
Message-ID: <199511212215.QAA30270@sh1.ro.com>
Rendered body type: text/plain

Well Tapr.org is working again to a point. After i answered you message Gerry i gave it another try. I was attempting to delete an older file and it said that the file deletion was succesfull, but guess what it's still there!, I guess it's just having some growing pains Hi.

Bill KE4EER
ke4eer@ro.com

450. Re: [APRSSIG:4460] Re: APRS bugs?

From: elekesa@cadvision.com (aaron elekes)
Date: Fri, 17 Nov 1995 00:09:34 -0700
To: aprssig@tapr.org
Message-ID: <9511170709.AA59472@huey.cadvision.com>
Rendered body type: text/plain

> The RF from my HF transmitter does couple into my data cable and causes
> the next packet received to have garbage as the first few characters.
>

Funny you should mention that. When I have my radio off, I still get this junk... Along with other calls who are beaconing...?

451. Re: [APRSSIG:4564] MFJ DATA RADIO

From: DDOBBINS@aol.com
Date: Tue, 21 Nov 1995 17:36:44 -0500
To: aprssig@tapr.org
Message-ID: <951121173641_113100250@mail06.mail.aol.com>
Rendered body type: text/plain

Aloha de Dave in Hawaii. I purchased a MFJ-8621 data radio, and after some initial probs with frequency adjustment, all is working well. I bought mine from MFJ with 145.79 installed, and the 145.01 xtals came with the package, along with a cable with one end installed with the DIN-5 plug for the radio. For optimum use, 13.8 volts is required, but 12v works just fine. The radio is near the footprint of a KPC-3, and I have the two lashed together (w/no RF prob as far as I can tell) and stuck in the trunk, as a standalone tracker of the wife's car (I don't have a car, take zodiac rubber boat to work). I'm very happy with my unit. Aloha - now back to the beach.

452. Other things about the list

From: quarry@q.continuum.net (Chip Griffin)
Date: Tue, 21 Nov 1995 17:57:17 -0500
To: aprssig@tapr.org
Message-ID: <v01530502acd809535655@[199.0.52.69]>
Rendered body type: text/plain

Just a brief note to mention that all the messages from the list appear to be coming in here in a scrambled order (the subject line numbers are out of sequence). Is anyone else seeing this? It's no big deal, I can sort em' but it is kinda interesting (they used to ALWAYS come in order). Might be a local thing...

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (860-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

my home page: <http://q.continuum.net/~quarry/>
TRAUG home page: <http://q.continuum.net/~quarry/TRAUG.html>

453. Portable GPS Receivers

From: "Douglas R. Woodruff" <102256.1216@compuserve.com>
Date: 21 Nov 95 20:48:15 EST
To: TAPR E-mail Forum <aprssig@tapr.org>
Message-ID: <951122014815_102256.1216_BHB99-1@CompuServe.COM>
Rendered body type: text/plain

Does anyone have an opinion on how much better a multi-channel (i.e. simultaneous parallel tracking) GPS receiver such as the Eagle AcuNav is than a single-channel multi-tracking (i.e. unit switches from one sat. to the next but only hears one at a time) unit like the Garmin 45?

On a related note, does anyone have a better suggestion for a GPS receiver than the Eagle or the Garmin?

Doug, KM4HY
102256.1216@compuserve.com

454. Refresh my memory

From: warakois@world.std.com (James A Warakois)
Date: Tue, 21 Nov 1995 22:19:34 -0500
To: aprssig@tapr.org
Message-ID: <199511220319.AA08386@world.std.com>
Rendered body type: text/plain

I am supporting a fellow with a double floppy...I remember someone stating that the double floppies can be "appended" (I believe)...so that two floppies can be used together with APRS...[refresh me on the commands]

Jim/W1KRU

455. 100K Maps

From: ke4eer@ro.com (William Nolle)
Date: Tue, 21 Nov 1995 23:17:54
To: aprssig@tapr.org
Message-ID: <199511220624.AAA02321@sh1.ro.com>
Rendered body type: text/plain

I'm doing the whole county of Madison Alabama (Yes the WHOLE COUNTY). it will take 256 maps, i have 80 done so far but i'm finding the problem now that several of the users where talking about that the software is missing a whole lot of the watr edges. The Madison County Alabama area has a lot of waterways and i see about 20 percent of one side of the waterway missing. That is really bad for an area like i'm doing. So just wanted to let you know that if your in an area that has lot's of lakes or waterways be prepared to do without many of those features. It looks mostly like it is missing one side of of a river or lake. I'm doing this in 1 mile maps, i suppose thinking about it now i could have done some of the area in 2 or even 4 mile maps but i find it's easy this way since i program my keyboard to enter the coordinates. When this huge job is done Alabama will have 476 maps, got to fill up Keith's CD somehow Hi.

Bill KE4EER
ke4eer@ro.com

456. Re: 4pin XLR's

From: JeffS5@aol.com
Date: Wed, 22 Nov 1995 02:19:57 -0500
To: aprssig@tapr.org
Message-ID: <951122021955_30500210@emout06.mail.aol.com>
Rendered body type: text/plain

Where do you get them?

I suppose that depends upon where you live and what you have access to. XLR connectors are made by many mfgr's and available from any electronics stores that stock audio connectors. Start with Radio Shack. If they don't stock them (I know they have XLR-3's, but not sure about anything larger), go to a catalog like Digi-Key, Newark, etc. They're made by Amphenol, Neutrix, and many others.

Good Luck, Jeff - WA6EQU

(Farther from the Great Lakes than anyone (sofar))

457. Re:Canadian Garmin's

From: JeffS5@aol.com
Date: Wed, 22 Nov 1995 02:20:00 -0500
To: aprssig@tapr.org
Message-ID: <951122021959_30500260@mail04.mail.aol.com>
Rendered body type: text/plain

\$490.00 ? 000UCH!

I'm in the wrong business. No wonder smugglers all drive expensive cars and wear \$10,000.00 Rolex's.

Currency corrected, etc. What's the U.S. equivalent price? I have a Canadian Uncle that just asked me about GPS, that's why I'm curious.

Jeff - WA6EQU

458. MFJ data radio

From: Ke4rvp@aol.com
Date: Wed, 22 Nov 1995 07:10:05 -0500
To: APRSSIG@tapr.org
Message-ID: <951122071004_30644959@emout06.mail.aol.com>
Rendered body type: text/plain

The MFJ data radio seems to work just fine. I think that they should offer the 145.79 at the same price as the original 145.01 crystals though.

459. Re: [APRSSIG:4577] 100K Maps

From: bob <w2g3zfj@unix.asb.com>
Date: Wed, 22 Nov 1995 08:03:50 -0600
To: aprssig@tapr.org
Message-ID: <199511221403.IAA00601@UNIX.asb.com>
Rendered body type: text/plain

At 23:31 21/11/95 -0600, you wrote:

>I'm doing the whole county of Madison Alabama (Yes the WHOLE COUNTY).
>it will take 256 maps, i have 80 done so far but i'm finding the problem now
>that several of the users where talking about that the software is missing a
>whole lot of the water edges.
>Bill KE4EER
>ke4eer@ro.com
>
>
>

Hi Bill

Yes I agree, I noticed it when doing the Long Island maps. It seems to be a problem with mkmapk1, as the water boundaries appear to be there when the map is drawn on the screen but the program doesn't link them i.e. they don't turn to white.

73 de bob w2/g3zfj

460. Re: [APRSSIG:4579] Re:Canadian Garmin's

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 22 Nov 95 08:42:37 EST
To: aprssig@tapr.org
Message-ID: <199511221341.IAA06305@gold.interlog.com>

Rendered body type: text/plain

On Wed, 22 Nov 1995 01:38:07 -0600 (CST) you wrote:

>\$490.00 ? 000UCH!
>I'm in the wrong business. No wonder smugglers all drive xpensive cars and
>wear \$10,000.00 Rolex's.
>
>Currency corrected, etc. What's the U.S equivilent price? I have a Canidian
>Uncle that just asked me about GPS, that's why I'm curious.
>
>Jeff - WA6EQU
>
>
>
You have to remember that it is a just a number.

1.36 on currency exchange. 8% duty (amateur equipment is duty free) to bring
it across the border and then you have to add the local taxes.

ie: your dollar is worth 1.36 up here.

cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

461. Re: [APRSSIG:4579] Re:Canadian Garmin's

From: rkramer@cdx.net (Ronald Kramer)
Date: Wed, 22 Nov 1995 14:00:53 GMT
To: aprssig@tapr.org
Message-ID: <199511221401.IAA17006@sys1.tapr.org>
Rendered body type: text/plain

On Wed, 22 Nov 1995 01:38:29 -0600 (CST), you wrote:

>\$490.00 ? 000UCH!
>I'm in the wrong business. No wonder smugglers all drive xpensive cars and
>wear \$10,000.00 Rolex's.
>
>Currency corrected, etc. What's the U.S equivilent price? I have a Canidian
>Uncle that just asked me about GPS, that's why I'm curious.
>

Well it sounds a bit expensive to me also
490 + 15% taxes = 564 cdn

E & B price located on Walden Ave in Buffalo NY
=289 us

8% nystax = 312 us
38% exchange = 431 cdn
8% gst = 465 cdn
trip tolls = 468 cdn
gas from my loc = 475 cdn
2 hrs time @ 15/hr = 505 cdn total

someone is making 60 dollars extra profit....

de Ron VE3MX Located on land 1/2 mile north of the north shore of
Lake Erie in the Heart of the Great Lakes.....

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

462. Re: [APRSSIG:4583] Re:Canadian Garmin's

From: Michael Walker <mwalker@gold.interlog.com>
Date: Wed, 22 Nov 1995 09:44:30 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511220935.A12957-0100000@gold.interlog.com>
Rendered body type: text/plain

Hi Ron,
Actually it not a bad price. The units come into Canada via UPS and it
costs \$42.50 to clear each parcel through UPS. So, it's not that they
are making \$60 extra profit, it just costs more to get them here. Garmin

will only send them via UPS, so you can't get them here any cheaper unless you buy 10 at time so:

US E & B price \$289
Exchange 1.38 \$398.83 Can \$
Brokerage+42.50 \$441.32
GST +30.89 \$472.21

I agree it is a little more expensive, but you know have a unit supported by a Canadian Dealer, so it's not that bad.

cheers...mike

Michael Walker
mwalker@interlog.com
VA3MW

On Wed, 22 Nov 1995, Ronald Kramer wrote:

> On Wed, 22 Nov 1995 01:38:29 -0600 (CST), you wrote:
>
> >\$490.00 ? 000UCH!
> >I'm in the wrong business. No wonder smugglers all drive xpensive cars and
> >wear \$10,000.00 Rolex's.
> >
> >Currency corrected, etc. What's the U.S equivilent price? I have a Canidian
> >Uncle that just asked me about GPS, that's why I'm curious.
> >
> Well it sounds a bit expensive to me also
> 490 + 15% taxes = 564 cdn
>
> E & B price located on Walden Ave in Buffalo NY
> =289 us
> 8% nystax = 312 us
> 38% exchange = 431 cdn
> 8% gst = 465 cdn
> trip tolls = 468 cdn
> gas from my loc = 475 cdn
> 2 hrs time @ 15/hr = 505 cdn total
>
> someone is making 60 dollars extra profit....
>
> de Ron VE3MX Located on land 1/2 mile north of the north shore of
> Lake Erie in the Heart of the Great Lakes.....
>
> Regards, Ron ... 73 de Ron
> Internet: rkramer@cdx.net (Ron Kramer)
> Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
>
>

463. Re: [APRSSIG:4577] 100K Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 22 Nov 1995 09:45:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951122094311.4116A-100000@greatlakes>
Rendered body type: text/plain

On Tue, 21 Nov 1995, William Nolle wrote:

> it will take 256 maps, i have 80 done so far but i'm finding the problem now
> that several of the users where talking about that the software is missing a
> whole lot of the watr edges. The Madison County Alabama area has a lot of
> waterways and i see about 20 percent of one side of the waterway missing.

APR REPLY: Yes, jack Admits that the software has a problem finding LONG features with lots of points that begin and end outside the selected area... Usually only rivers and streams are affected...

464. Re: [APRSSIG:4577] 100K Maps

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Wed, 22 Nov 95 09:14:49 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511221515.JAA09593@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

Hi all,

When I have to include streams and water bodies into a 100K map, sometimes I'll make a map of the water in an area with the USGS2MAP.BAS from 2Mil.GRA, and import it into the 100K map. IF the 100K map has the points to spare. Streams and waterbodies seem to take a LOT of them.

----- REPLY, Original message follows -----

```
> Date: Tuesday, 21-Nov-95 11:31 PM
>
> From: William Nolle          \ Internet:    (ke4eer@ro.com)
> To:   APRS SIG              \ Internet:    (aprssig@tapr.org)
>
> Subject: [APRSSIG:4577] 100K Maps
>
> I'm doing the whole county of Madison Alabama (Yes the WHOLE COUNTY). it
will
> take 256 maps, i have 80 done so far but i'm finding the problem now that
> several of the users where talking about that the software is missing a
whole
> lot of the watr edges. The Madison County Alabama area has a lot of
waterways
> and i see about 20 percent of one side of the waterway missing. That is
realy
> bad for an area like i'm doing. So just wanted to let you know that if
your in
> an area that has lot's of lakes or waterways be prepared to do without
many of
> those features. It looks mostly like it is missing one side of  of a river
or
> lake. I'm doing this in 1 mile maps, i suppose thinking about it now i
could
> have done some of the area in 2 or even 4 mile maps but i find it's easy
this
> way since i program my keyboard to enter the coordinates. When this huge
job is
> done Alabama will have 476 maps, got to fill up Keith's CD somehow Hi.
>
> Bill KE4EER
> ke4eer@ro.com
>
>
```

----- REPLY, End of original message -----

```
--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W
```

465. Re: [APRSSIG:4580] MFJ data radio

```
From: rwf <rwf@mindspring.com>
Date: Wed, 22 Nov 1995 11:23:05 -0500
To: aprssig@tapr.org
Message-ID: <199511221623.LAA23153@borg.mindspring.com>
Rendered body type: text/plain
```

Hi-

We did this discussion already.
They agreed to charge a bit more, but it beats the \$30 + they wanted before.
They get the .01 xtals for a very low cost due to the quantity, the .79 is
still not
really that popular.

Ralph

At 06:19 AM 11/22/95 -0600, you wrote:
>The MFJ data radio seems to work just fine. I think that they should offer
>the 145.79 at the same price as the original 145.01 crystals though.
>
>

466. Re: [APRSSIG:4578] Re: 4pin XLR's

From: rwf <rwf@mindspring.com>
Date: Wed, 22 Nov 1995 11:23:02 -0500
To: aprssig@tapr.org
Message-ID: <199511221623.LAA23144@borg.mindspring.com>
Rendered body type: text/plain

It may be easier to find DIN connectors.
The 7 or 8 pin inline DIN socket has 4 pins that fit perfectly.
The key doesn't quite stick out far enough. Might be a good idea to fill
the unused holes with
something to keep yourself from accidentally rotating the plug and plugging
it in
If you were at the APRS eyeball in Dayton, I showed this connector.

Ralph Fowler, N4NEQ

S.E.R.A. ATV Technical Advisor

rwf@mindspring.com Atlanta, GA USA
Web: <http://www.mindspring.com/~rwf> for ATV, Balloon, and Ham info
FTP: <ftp://mindspring.com/users/rwf> for ATV, GPS, APRS info
APRS web page: <http://www.mindspring.com/~rwf/aprs.html>

At 01:36 AM 11/22/95 -0600, you wrote:
>Where do you get them?
>
>I suppose that depends upon where you live and what you have access to. XLR
>connectors are made by many mfg'r's and available from any electronics stores
>that stock audio connectors. Start with Radio Shack. If they don't stock them
>(I know they have XLR-3's, but not sure about anything larger), go to a
>catalog like Digi-Key, Newark, etc. They're made by Amphenol, Neutrix, and
>many others.
>
>Good Luck, Jeff - WA6EQU
>
>(Farther from the Great Lakes than anyone (sofar))
>
>

467. Re: [APRSSIG:4574] Other things about the list

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Wed, 22 Nov 1995 11:06:43 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511221706.LAA18131@solar.cs.tamu.edu>
Rendered body type: text/plain

Chip Griffin sez:

>
> Just a brief note to mention that all the messages from the list appear to
> be coming in here in a scrambled order (the subject line numbers are out of
> sequence). Is anyone else seeing this? It's no big deal, I can sort em'
> but it is kinda interesting (they used to ALWAYS come in order). Might be
> a local thing...

Welcome to the real world of electronic mail...:-)

E-mail is not recorded in any particular order within the mail subsystem.
Some mail viewers will order and organize it based on subject line and time
received, header date and time, sender, simple time received, etc. Because of
the disconnected nature (in some senses) of TCP/IP and the routing of e-mail,
it's very possible that you do not receive e-mail "sequentially." As usage
increases on a system, it's more and more likely that it will have trouble
handing mail off to one host or replay point or another.

It's no big thing.

73, gerry N5JXS
n5jxs@tamu.edu

468. Magellan NAV 5000A

From: "Coster, Jack Eugene" <JCOSTER@WVNM.WVNET.EDU>
Date: Wed, 22 Nov 1995 12:21:13 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199511221723.LAA24130@sys1.tapr.org>
Rendered body type: text/plain

Afriend has a NAV 5000A that he would like to use for APRS. He doesn't have the manual, and doesn't know the pin-outs for the little "din"-type connector on the unit.
Can someone give me the pinouts for this unit so we can interface it to the tnc? thanks. de Jack, WF8X.

469. Re: [APRSSIG:4578] Re: 4pin XLR's Manuf.

From: n2czf@gate.net
Date: Wed, 22 Nov 1995 18:24:43 -0500
To: aprssig@tapr.org
Message-ID: <199511222324.SAA62808@tequesta.gate.net>
Rendered body type: text/plain

Look for someone who stocks CANNON plugs, I think SWITCHCRAFT marketed the Cannon line of plugs. These were the most popular brand 10 years ago when I worked in the electronic parts industry. Very popular but VERY expensive, XLR's were used in most all audio applications in the music, public address, and broadcast industry. Good thing is that it took a Mack truck to damage these things, very well built!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

470. Kantronics 2m Data Radio

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Wed, 22 Nov 1995 12:36:59 -0600
To: aprssig@tapr.org
Message-ID: <9511221236.AA59741@oscar.tbr.state.tn.us>
Rendered body type: text/plain

While at the Memphis, TN hamfest recently I noticed a 2 channel Voice/Data radio from Kantronics. It comes crystaled for 145.01MHz and is in a case the size of the KAM. Has anybody else seen or used this radio? Anybody know any more about this rig.

73 de KQ4TV

471. Re: [APRSSIG:4592] Kantronics 2m Data Radio

From: "Coster, Jack Eugene" <JCOSTER@WVNM.WVNET.EDU>
Date: Thu, 23 Nov 1995 07:10:15 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199511231211.GAA28940@sys1.tapr.org>
Rendered body type: text/plain

Yes, I have four of these radios. They are the Kantronics DVR 2-2. Power out at 13 volts is about 4 watts, although the specs say 2 watts. I have one that has been in continous operation for 5 years, no problems. Others are in more-or-less continous opeation.

They are 9600 baud ready and I have one that runs at 9600 baud all the time. No mods are needed to use them at 9600 baud. The only problem with them is the rather open front end on the rcvr. If you are where there is a lot of intermod potential, they are susceptible. I have put a helical resonator in the front end of one where i have that problem.

Summary--a good, reliable, inexpensive, radio for packet. (I have never tried one on voice, although they will do that too with proper xtals. (You should be able to get used ones fro 80-\$100. Kantronics doesn't make they anymore.
de Jack. WF8X.

472. DLG

From: ASZ@aol.com
Date: Thu, 23 Nov 1995 07:37:14 -0500
To: aprssig@tapr.org
Message-ID: <951123073713_114644820@mail06.mail.aol.com>
Rendered body type: text/plain

I need help, please, in locating the 100K DLG files for Erie County, PA. I grabbed eight Road (RDF) files, 1 through 8, but they only give me details for land area north of 42 degrees lat and west of 80 degree long. That leaves a big portion of Erie County out. Who can direct me to the remainder of my county? Then next onto the state. I figure I can do PA with 13000-odd 1-mile

maps. :-)

Also, I put boundary (BDF) and railroad (RDF) DLG files in the same directory with the RDF files, but I get no boundaries or railroads. I'd like to mix in a litte water, too. What's happening?

Thanks for reading
Tony WB3KGT

473. Re: [APRSSIG:4594] DLG

From: jkerns@usit.net (jim kerns)
Date: Thu, 23 Nov 1995 08:49:44 -0500
To: aprssig@tapr.org
Message-ID: <199511231345.IAA27032@use.usit.net>
Rendered body type: text/plain

>I need help, please, in locating the 100K DLG files for Erie County, PA. I
>grabbed eight Road (RDF) files, 1 through 8, but they only give me details
>for land area north of 42 degrees lat and west of 80 degree long. That leaves
>a big portion of Erie County out. Who can direct me to the remainder of my
>county? Then next onto the state. I figure I can do PA with 13000-odd 1-mile
>maps. :-)

>

>Also, I put boundary (BDF) and railroad (RDF) DLG files in the same directory
>with the RDF files, but I get no boundaries or railroads. I'd like to mix in
>a litte water, too. What's happening?

>

>Thanks for reading
>Tony WB3KGT

>

Hi Tony:

Jim here in the Oak Ridge, Tn. area. I don't see to many on the SIG group from Pa. I lived in Erie, back in 1942, have been back there once, and it has changed a little. I'm originally from over near Williamsport, Pa. I have been looking for someone that might be making an APRS map for Jersey Shore>
>Which is s mall town just west of Williamsport and East of Loch Haven on Rt. 220. If you know someone who can make me one, I'll reimburse them for for time and trouble.
I'd like to have a street map for Jersey Shore at maybe a 1 ot 2 mile range. Town only has about 5000 folks in it. Any suggestions? I just dont make maps.

73 good Aprsing. Jim, N4PUQ jkerns@usit.net or BBS N4QEA@ETN. NOAM.USA

474. APRS USERS

From: ke4eer@ro.com (William Nolle)
Date: Thu, 23 Nov 1995 08:51:03
To: aprssig@tapr.org
Message-ID: <199511231557.JAA31103@sh1.ro.com>
Rendered body type: text/plain

Happy Thanksgiving to everyone on the Sig. We sure have a lot to be thankfull for.

Bill KE4EER

475. Tapr problem

From: ke4eer@ro.com (William Nolle)
Date: Thu, 23 Nov 1995 10:20:05
To: aprssig@tapr.org
Message-ID: <199511231726.LAA00446@sh1.ro.com>
Rendered body type: text/plain

Well they are using some new software at the Tapr site i believe, but what it has also done is changed a few rules i guess. The last couple of days i have been attempthing to delete an old ALmaps01.zip and a ALmaps05.zip to upload a newer file, but in ALL cases except for downloading i got the message PERMISSION DENIED

Bill KE4EER
ke4eer@ro.com

476. Maps and GZIP

From: "Bernie Andreoli" <berlyn@epix.net>
Date: Thu, 23 Nov 1995 11:40:22 -5
To: aprssig@tapr.org
Message-ID: <199511231639.LAA17310@epix.net>
Rendered body type: text/plain

Well I haven't seen any maps from Pennsylvania yet so I thought I would get started with the east side of the state. I live in Scranton, PA so naturally I'll start there.

OK...my question. I DL'ed the sr3.rdf0*.opt.gz maps for Scranton. Renamed them sr3rdf0*.gz for DOS handling. When I try to GZIP -d them my system locks up. I have tried in both DOS and Windows to do this, I even tried to just list the license agreement for GZIP with gzip -L. Even when I do this I lock up. The format I am attempting to use is gzip -d sr3rdf01.gz. Is this correct? BTW...I thought there may have been a problem with the GZIP program so I DL'ed it a second time, it does the same thing. I also tried (for the heck of it) the program called gzip386.exe. This runs some "ascii" looking characters across the screen for a while then it locks up the system. I have the gzip docs in front of me...seem to be doing things right but not having much luck...suggestions?...help?...anyone.

Hoping to contribute to the map files..thanks..Bernie WM3L
berlyn@epix.net

477. Re: [APRSSIG:4598] Maps and GZIP

From: n2czf@gate.net
Date: Thu, 23 Nov 1995 11:54:58 -0500
To: aprssig@tapr.org
Message-ID: <199511231654.LAA19609@tequesta.gate.net>
Rendered body type: text/plain

Don't know about GZ but I use the command GZIP386 -d and that works for me. Never was one to read instructions very much I just learn by trying! hi hi GZIP386 -d worked for me the first time

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

478. aprs validation

From: curt johnson <curtj@northernnet.com>
Date: Thu, 23 Nov 1995 12:40:06 -0600
To: aprssig@tapr.org
Message-ID: <199511231840.MAA06040@server.northernnet.com>
Rendered body type: text/plain

Hi Bob.. My name is Curt from Bemidji, Mn... I am dropping you a note for George W -- NOWBU -- He just received his validation number for APRS-- he is unable to make it work. He gets a invalid number when he tries to put it in. the number is 7969E. He is running version 7.4. Is there a file that needs to be created for this number?? Where in the manual does it discuss validation???

Thanks for the help... My number should be coming soon(WB0HUJ)..
73's

Curt

479. Tapr problems

From: ke4eer@ro.com (William Nolle)
Date: Thu, 23 Nov 1995 12:41:57
To: aprssig@tapr.org
Message-ID: <199511231948.NAA03737@sh1.ro.com>
Rendered body type: text/plain

Tapr is getting about as bad as my local provider Hi. Can't do much of anything without it telling me PERMISSION DENIED. It also says ACCESS RESTRICTIONS APPLY. Well i guess no more map uploads!. Can't delete old ones or upload new ones. Didn't try to download, maybe that is not allowed anymore either Hi.

Bill KE4EER

480. Re: [APRSSIG:4601] Tapr problems

From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 23 Nov 1995 18:32:36 -0600 (CST)
To: aprssig@tapr.org
Cc: n5lyt@tapr.org (Lee Ziegenhals)
Message-ID: <199511240032.SAA19466@sys1.tapr.org>
Rendered body type: text/plain

William -- please e-mail Lee. He sent you mail after the last message you posted here and we are more than willing to try to find the problem -- but he needs information from you about what you are doing.

n5lyt@tapr.org

Cheers - Greg

>
> Tapr is getting about as bad as my local provider Hi. Can't do much of
> anything without it telling me PERMISSION DENIED. It also says
> ACCESS RESTRICTIONS APPLY. Well i guess no more map uploads!.
> Can't delete old ones or upload new ones. Didn't try to download, maybe that
> is not allowed anymore either Hi.
>
> Bill KE4EER
>
>
>
>

481. APRS EVENT

From: KD4EMI@aol.com
Date: Thu, 23 Nov 1995 19:41:08 -0500
To: APRSSIG@tapr.org
Message-ID: <951123194107_114997542@mail06.mail.aol.com>
Rendered body type: text/plain

December 3rd is World Aids awareness week.

If you are receiving this message and live in south Florida, please consider helping us December 3rd for a walkathon at BCC Central Campus. There are over 5000 walkers scheduled to attend as well as high media saturation. We will be operating an APRS station but need communicators for various other duties.

If you can help, contact Mike KD4EMI @ 305-974-4153

If you would like a map of the event, let me know and I'll send it to you.
73 Mike KD4EMI (KD4EMI@AOL.COM)

482. Maps and GZIP

From: "Bernie Andreoli" <berlyn@epix.net>
Date: Thu, 23 Nov 1995 22:41:06 -5
To: aprssig@tapr.org
Message-ID: <199511240340.WAA16666@epix.net>
Rendered body type: text/plain

OK...found the problem. My copy of GZIP was corrupt. I DL'ed it again and it came down as 39Kb, the original one I tried to use showed 42Kb. Why that was I don't know but everything is working fine now.

Now for something completely different! I DL'ed 8 maps (Quads) for the Scranton area. My question is...Is there a way to determine the boundaries of the Quads combined? The way I see it, is, using the center of Scranton coordinate I would cover an area 1 degree N to S and 30 minutes E to W. Is this correct? If not, could someone explain the layout to me. Thanks.

Hope to be pumping out maps of PA real soon...Bernie WM3L
berlyn@epix.net

483. 100K maps

From: ke4eer@ro.com (William Nolle)
Date: Fri, 24 Nov 1995 00:02:18
To: aprssig@tapr.org
Message-ID: <199511240708.BAA22561@sh1.ro.com>
Rendered body type: text/plain

I found some more problems with making the 100K maps using the new MKMAP program. It depends from what part of the CD you select data from. I just wanted to start a map system for Knoxville and found that using the - for less detail doesn't work on all data from the USGS CD-ROM. I noticed this several times before but figured I had just hit the wrong key, but this time I found the following results.

Using: a -10 (Locked up my computer)

- The minus key did not have an effect on the amount of detail in the map hence the reason for all the lockups, just trying for too much detail will lock up your computer and on some data from the CD you will have no choice at all. That's bad because this means there is no way to make a single 4 mile map and up in some city's selected. Also Memory didn't seem to have an effect on any of the mapmaking either, but i now know the number of files in the data directory does, but in this case i only had the files for Knoxville. Just figured the mapbuilders would like to know what your up against. and don't have to blame your system either Hi.

484. KPC3 & U-II ??

Still having trouble hooking up the Ultimeter-II to KPC3 to do weather remotely. I can't seem to get any data from the U-II. The cable works fine into the computer with APRS WX but in spite of setting GPSHEAD to * or #, the LTEXT never changes when I use the same cable and a gender changer into the tnc.

Does anyone have any suggestions?

485. Re: [APRSSIG:4606] KPC3 & U-II ??

```

Thus spoke Ann Reeves, splattered hither:
> Still having trouble hooking up the Ultimeter-II to KPC3 to do weather
> remotely. I can't seem to get any data from the U-II. The cable works
> fine into the computer with APRS WX but in spite of setting GP$HEAD to *
> or #, the LTEXT never changes when I use the same cable and a gender
> changer into the tnc.
>
> I've set the INTERFACE to GPS, checked the gender changer and tried every
> baud rate from 300 to 9600. (I wonder what the baud rate really is, I've
> tried reading the U-II data straight into the computer with PC-TALK4 but
> it looks like a MESS)

```

```
--
--Ryan Tucker                                ttgcihn.com owner
--rtucker@ttgcihn.com                       nether.net irc administrator
--http://www.netins.net/showcase/rtucker    netins.net user development group
TTGCIHN Communications Help Desk -- need internet/unix help?  help@ttgcihn.com
```

486. Re: [APRSSIG:4606] KPC3 & U-II ??

Page 1643

To: aprssig@tapr.org
Message-ID: <30B5CC63.3A9F@wingsbbs.com>
Rendered body type: text/plain

Ann Reeves wrote:

>
> Still having trouble hooking up the Ultimeter-II to KPC3 to do weather
> remotely. I can't seem to get any data from the U-II. The cable works
> fine into the computer with APRS WX but in spite of setting GPSHEAD to *
> or #, the LTEXT never changes when I use the same cable and a gender
> changer into the tnc.
>
> I've set the INTFACE to GPS, checked the gender changer and tried every
> baud rate from 300 to 9600. (I wonder what the baud rate really is, I've
> tried reading the U-II data straight into the computer with PC-TALK4 but
> it looks like a MESS)
>
> Does anyone have any suggestions?
>
> Ann WA7ROS & Jim WA7RVV

Use a NULL Modem Cable or adaptor.. That will cure your trouble.

Sam.

487. Map Making, DLG Internet Data ?

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 24 Nov 1995 08:56:14 +0000
To: aprssig@tapr.org
Message-ID: <199511241357.IAA15284@hemisphere.neocomm.net>
Rendered body type: text/plain

----- Forwarded Message Follows -----

From: "Charles W. Davidson" <cdavidso@neocomm.net>
To: cdavidso@neocomm.net
Date: Fri, 24 Nov 1995 08:49:37 +0000
Subject: Map Making, DLG Internet Data ?
Reply-to: cdavidso@neocomm.net
Priority: normal

Hello I have made a few maps from the DLG data I got off the internet at FTP site edcftp.cr.usgs.gov . You may also use your WEB browser and open location ftp://edcftp.cr.usgs.gov/pub/DLG/100K/ . The data is listed by cities, Has anyone found the DLG data listed by Quad sheet ? This way I can look at a keymap of quads and pick the ones I want.

cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4Q0J.VA.USA.NOAM
cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4Q0J.VA.USA.NOAM

488. PC-jr 3.5 720K floppy

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 24 Nov 1995 09:10:07 +0000
To: aprssig@tapr.org
Message-ID: <199511241411.JAA15456@hemisphere.neocomm.net>
Rendered body type: text/plain

I have an IBM PC-jr with no HDrive and a 5.25 360K floppy.
I recently installed a 720K floppy (purchased at Shelby Hfest for \$7).
APRS runs fine on it now. I have a chopped down version of APRS on a BOOT disk, so when I have power glitches the system will reboot to APRS. Just thought I would mention the fact that the PC-jr will support a 3.5 720K floppy without any modification of hardware or software.
I used a power cable adapter from RadioShack (\$2.) and a standard ide ribbon cable.

P.S. the PC-jr will not support a 3.5 HD drive without purchasing additional hardware support.

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4Q0J.VA.USA.NOAM

489. Re: [APRSSIG:4598] Maps and GZIP

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 24 Nov 1995 09:39:54 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511240935.A3418-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I'm no expert but I'd suggest eliminating the ".gz" suffix from the command line and see if that makes a difference. I confess that I've had my problems with gzip also. The most annoying is that, if the compressed file was named filename and without an extension and it contained only a single file of the same name, the thing unzipped the file and overwrote itself. I've spent many confusing moments considering that one.

A further issue I noted is that sometimes I've found need to unzip .tar files. The syntax that worked in these instances was:

```
gzip -d <filename | tar
```

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Thu, 23 Nov 1995, Bernie Andreoli wrote:

```
>  
> OK...my question. I DL'ed the sr3.rdf0*.opt.gz maps for Scranton.  
> Renamed them sr3rdf0*.gz for DOS handling. When I try to GZIP -d them  
> my system locks up. I have tried in both DOS and Windows to do this,  
>
```

490. Re: [APRSSIG:4594] DLG

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 24 Nov 1995 09:21:53 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511241521.JAA08269@solar.cs.tamu.edu>
Rendered body type: text/plain

ASZ@aol.com sez:

```
>  
> I need help, please, in locating the 100K DLG files for Erie County, PA. I  
> grabbed eight Road (RDF) files, 1 through 8, but they only give me details  
> for land area north of 42 degrees lat and west of 80 degree long. That leaves  
> a big portion of Erie County out. Who can direct me to the remainder of my  
> county? Then next onto the state. I figure I can do PA with 13000-odd 1-mile  
> maps. :-)
```

Are you using the WWW graphical interface? If so, have it grab the maps that are more appropriate for you. If you've questions, tell me your central Lat/Lon and I'll see which files you need to grab. I have found the graphical interface real useful especially late in the day, when I want the maps, but can no longer cerebrate:-)

```
> Also, I put boundary (BDF) and railroad (RDF) DLG files in the same directory  
> with the RDF files, but I get no boundaries or railroads. I'd like to mix in  
> a litte water, too. What's happening?
```

Looks to me like you'll have to go back to conv100x and the like to do that. I'm afraid it will be a manual issue, although with practice that becomes less onerous, in my opinion.

Drop me e-mail (n5jxs@tamu.edu) and I'll take this off-line and try to help.

73, gerry

491. RE: [APRSSIG:4606] KPC3 & U-II ??

What you need to use is a NULL MODEM adapter... not just a gender changer.

Larry Griffin <largriff@onramp.net>

From: Ann Reeves[SMTP:annr@comtch.iewa.com]
Sent: Thursday, November 23, 1995 10:34 PM
To: aprssig@tapr.org
Subject: [APRSSIG:4606] KPC3 & U-II ??

Still having trouble hooking up the Ultimeter-II to KPC3 to do weather remotely. I can't seem to get any data from the U-II. The cable works fine into the computer with APRS WX but in spite of setting GPSHEAD to * or #, the LTEXT never changes when I use the same cable and a gender changer into the tnc.

I've set the INTERFACE to GPS, checked the gender changer and tried every baud rate from 300 to 9600. (I wonder what the baud rate really is, I've tried reading the U-II data straight into the computer with PC-TALK4 but it looks like a MESS)

Does anyone have any suggestions?

Ann WA7ROS & Jim WA7RVV

```
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<0,E'NKH!0 " " " " $ " " " 4D4Z(" " "FB
```

end

From: rwf@mindspring.com
Date: Fri, 24 Nov 1995 10:36:48 -0500
To: aprssig@tapr.org
Message-ID: <199511241536.KAA15865@borg.mindspring.com>
Rendered body type: text/plain

Now that the Federal Government employees are back from their paid vacation, my USGS CD order has been submitted (I guess someone replaced the paper in the FAX machine).

I was preparing to make more Georgia/Atlanta maps and had decided to grid up some kind of paper map to help me visualize the areas involved. I was down in the shack when I went into my ATV studio and noticed the map I use as a backdrop.

It is a map I picked up from the USGS several years ago, called "Greater Atlanta Region". It always impressed me because it was like a Topo map, but covered a much larger area, sort of like 40-50 topos. It had street outlines and other features, too. Looking at the legend, I noticed that it was a 100,000:1 map!

Last night I laid the map out on a large table (the map is about 4' x 6') and began gridding it by using the little + marks on the map. I quickly found out that the map is divided into sections that appear to match the 7 1/2 minute and 15 minute sections in the USGS 100k files. Now, I have a paper visual reference of exactly what would be shown on any 100k maps I do. I work a lot better if I can see what I am working from, for some reason trying to figure out lat/long positions and visualize where they relate to other positions is not my forte'.

I bring this up because of the excellent tool that they appear to be. the Map store told me these were sort of experimental and that only about 8-12 regions were covered. If you are lucky enough to live in a covered area, you owe it to yourself to have one. Even if you don't make maps- this is a cool thing to have just hanging on your wall. It covers an area 1 degree high by 2.5 degrees wide.

Ralph
N4NEQ Atlanta GA
Heading to Dallas 12/11

493. Re: [APRSSIG:4605] 100K maps

From: n2czf@gate.net
Date: Fri, 24 Nov 1995 09:51:16 -0500
To: aprssig@tapr.org
Message-ID: <199511241451.JAA37016@tequesta.gate.net>
Rendered body type: text/plain

I too noticed that the - key was acting funny in the program. I DID NOT have the lockups you did so I did not venture into what was going on that much. I just thought that since we have MANY MANY little streets that even with "-" it was too many points and kept on reducing the radius till it worked. If I did not reduce thadius when the program when thru it's chaining I got a lot of segmented lines.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

494. Help with MAPLIST.***

From: n2czf@gate.net
Date: Fri, 24 Nov 1995 10:11:54 -0500
To: aprssig@tapr.org
Message-ID: <199511241511.KAA56906@tequesta.gate.net>
Rendered body type: text/plain

Well many have complained of problems making maps, I was lucky 1 problem at the begining and the rest has been a piece of cake so far. My problem is with the maplist files, no one seems to have a problem with this except for me.

I put the maps in descending order and have the correct map centers entered but more often than not I cannot get APRS to recognize that a map is there. Can anyone explain what I am doing wrong ??? Some of my maps do come up correctly so I know that I do have an idea of how to do it but it is not working for all of the maps.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

495. Regional USGS maps/map indexes

From: BOB DERDERIAN <n2iph@beta.delphi.com>
Date: Fri, 24 Nov 1995 12:32:15 -0500
To: aprssig@tapr.org
Message-ID: <199511241732.MAA17121@ernie.beta.delphi.com>
Rendered body type: text/plain

Thought you all might like to know that there are available index maps from USGS. These are hard copy maps by State that show the outline and Quad name of each 7.5 or 15 min Quad covering an area of the state. I had mentioned to a few people (but not here on the SIG) a year or so ago that the easiest way to track what areas had been mapped by others and a way to coordinate map making between all would be to make maps mirror the 7.5 minute quads. If you look at the proper map range in APRS while displaying the Grid Squares, they correspond to the 7.5 and 15 minute quads.

If more then one person is working on mapping a state or large region of a state, following the 7.5 quads size would insure that areas are not done twice and using the 7.5 minute quad names would eliminate duplicate naming of maps. Quad maps are named for a significant feature or population center on the map, making them easy to identify.

I have not done much in the way of making maps except for some very localized stuff for ARES/RACES work, but I think this would be a logical way to proceed. With it being easier now to construct maps from USGS data, some form of national standard for map size/coverage area would be good to establish. Custom maps for special uses could still be created and used of course. I believe that using this method would help eliminate map hierarchy problems in MAPLIST.xxx also.

496. Re: [APRSSIG:4616] Help with MAPLIST.***

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Fri, 24 Nov 95 11:42:42 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511241743.LAA16926@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

----- REPLY, Original message follows -----

> My problem is with the
> maplist files, no one seems to have a problem with this except for me.
>

> 73's De Rich N2CZF
> n2czf@gate.net
> Jupiter Farms Florida

---- REPLY, End of original message -----

Don't worry...you're not alone there. Although I've gotten good results with the MKMAPLIST.BAS program. Just redo the map order as you would zoom into them, and don't forget to add the preface to the file, and it should work for you. Just have all your new maps in one directory with the MKMAPLIST.BAS program.

--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W

497. Re: [APRSSIG:4611] Re: Maps and GZIP

From: "Bernie Andreoli" <berlyn@epix.net>
Date: Fri, 24 Nov 1995 12:52:27 -5
To: aprssig@tapr.org
Message-ID: <199511241751.MAA07287@epix.net>
Rendered body type: text/plain

OK...Thanks Bill. Got them working. I had a bad copy of gzip.
DL'ed a fresh one and it worked fine.

Bernie WM3L

498. Re: [APRSSIG:4617] Regional USGS maps/map indexes

From: "Bernie Andreoli" <berlyn@epix.net>
Date: Fri, 24 Nov 1995 13:02:17 -5
To: aprssig@tapr.org
Message-ID: <199511241801.NAA11327@epix.net>
Rendered body type: text/plain

I had that same thought. Since there is so much activity, we need to establish a guideline to follow to maintain consistency. I'm still new enough to admit I'm not sure what that guideline should be but maybe Bob or some of the map gurus could suggest something. I realize a lot will depend on the density of a particular area, but this could be taken into consideration.

Bernie WM3L berlyn@epix.net

499. Re: [APRSSIG:4606] KPC3 & U-II ??

From: sdimse@bridge.net (Steve Dimse)
Date: Fri, 24 Nov 1995 13:04:22 -0500
To: aprssig@tapr.org
Message-ID: <v01530500acdbb902bfec@[204.253.4.53]>
Rendered body type: text/plain

>Still having trouble hooking up the Ultimeter-II to KPC3 to do weather
>remotely. I can't seem to get any data from the U-II. The cable works
>fine into the computer with APRS WX but in spite of setting GPSHEAD to *
>or #, the LTEXT never changes when I use the same cable and a gender
>changer into the tnc.

>

>I've set the INTERFACE to GPS, checked the gender changer and tried every
>baud rate from 300 to 9600. (I wonder what the baud rate really is, I've
>tried reading the U-II data straight into the computer with PC-TALK4 but
>it looks like a MESS)

>

>Does anyone have any suggestions?

>

The baud rate is 2400. Do you set INTERFACE GPS, and then toggle the power to the TNC? One last thing to try would be a null modem, since you are connecting two items designed to connect to the computer, the RS-232 lines are crossed!

73 de Steve K04HD
sdimse@bridge.net

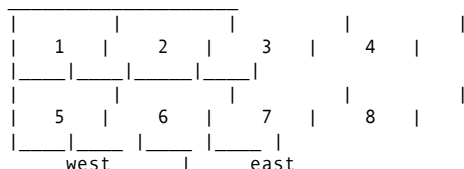
500. Re: [APRSSIG:4609] Map Making, DLG Internet Data ?

From: "Bernie Andreoli" <berlyn@epix.net>
Date: Fri, 24 Nov 1995 14:53:36 -5
To: aprssig@tapr.org
Message-ID: <199511241952.OAA01324@epix.net>
Rendered body type: text/plain

I found some great "ftp by graphics" areas for just the purpose you mentioned. I don't have the short-cut marked down but you can get to it from the following.

Go to the USGS Home Page at www-nmd.usgs.gov/www/html/index.htm, then select Products, Information, and Services. Scroll down to the heading Digital Geospatial Data, choose Digital Line Graphics (DLG) from under that heading. Scroll toward the bottom of that page to the heading Product Delivery Format. Click on the <online> hypertext link. On the next page, scroll to the 1:100,000 Scale (DLG) area. Under this heading is a choice called "FTP by Graphics". Click on it. A map will come up. Click on the particular region you are interested in and a zoomed in map will appear that shows a collection on quad areas. By clicking on the area you want, you will be taken to that ftp site...the rest is easy.

The quad layout for those interested is:



Hope this helps...Bernie WM3L berlyn@epix.net

501. Re: [APRSSIG:4620] Re: Regional USGS maps/map indexes

From: ke4eer@ro.com (William Nolle)
Date: Fri, 24 Nov 1995 17:39:59
To: aprssig@tapr.org
Message-ID: <199511250047.SAA08369@sh1.ro.com>
Rendered body type: text/plain

I don't understand what the problem is here. Mine are working just great and everyone that is using my maps for Alabama are very happy with the layout!. I now have 239 maps for Alabama all the way from a map of Alabama all the way down to street level in many city's and towns. If your saying they should be kept to a certain range that would be imposible. Mine work very smoothly just the way they are (Don't fix it if it ain't broke Hi). I use 4 maplists to give a lot of flexibility on how a user wan't his maps to come up. Even have one that will only bring up all the maps just related to our state. And by the way the easy way to find how to add another city is to look at the list, pick the town name and coordinates and your on the way, no problems at all. I have posted the address for Tiger maps where these lists are available for free. The list covers nearly every city and town in the country and it's Lon.Lat. If you need the list i can probably attach it to an e-mail message to you for your state.

Bill KE4EER
ke4eer@ro.com

>I had that same thought. Since there is so much activity, we need to
>establish a guideline to follow to maintain consistency. I'm still
>new enough to admit I'm not sure what that guideline should be but
>maybe Bob or some of the map gurus could suggest something.
>I realize alot will depend on the density of a particular area, but
>this could be taken into consideration.
>
>Bernie WM3L berlyn@epix.net
>

502. Re: [APRSSIG:4623] Re: Regional USGS maps/map indexes

From: Milt Klingsporn <mklings@execpc.com>
Date: Fri, 24 Nov 1995 18:41:03 -0600 (CST)
To: William Nolle <ke4eer@ro.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.951124183710.15235B-100000@earth>
Rendered body type: text/plain

Could you send me information on maps to Wisconsin, the SE area,
Milwaukee, in specific. Thanks.
Milt N9WSZ

503. KPC3 & U-II (it works!)

From: Ann Reeves <annr@comtch.iewa.com>
Date: Fri, 24 Nov 1995 17:20:11 -0800 (PST)
To: aprs <aprssig@tapr.org>
Message-ID: <Pine.SV4.3.91.951124171339.26323A-100000@comtch>
Rendered body type: text/plain

Thanks to each of you who responded to my search for help last night on hooking up the U-II to run remotely. It now works fine!

The problem had a 2 part solution - running at 2400 baud AND using a null modem adapter. I had done both but not at the SAME time. We now have a REAL cable made without extra adapters. Incidentally, we found out that one of our U-II uses * and the other one #.

Tnx again, Ann WA7R05

504. More TAPR Trouble?

From: Turnstone@aol.com
Date: Fri, 24 Nov 1995 23:00:21 -0500
To: aprssig@tapr.org
Message-ID: <951124230020_88474196@mail02.mail.aol.com>
Rendered body type: text/plain

Hi group,
I've been having trouble downloading large files from ftp.tapr.org. I've been trying to get APRTRAK, but the download never finishes, and shows no signs that the download is progressing (i.e. AOL never asks me for a filename). Small files seem to work OK, however. Am I just not waiting long enough (it's an estimated 9 minute download), or are others seeing similar behavior?

Thanks for the help,

505. Re: [APRSSIG:4623] Re: Regional USGS maps/map indexes

From: "Bernie Andreoli" <berlyn@epix.net>
Date: Sat, 25 Nov 1995 00:29:12 -5
To: aprssig@tapr.org
Message-ID: <199511250528.AAA16288@epix.net>
Rendered body type: text/plain

Bill...I'm not suggesting anything be changed or implying anything is wrong with the great job you and the others are doing. Sorry if it sounded that way! Being new as I am to map making, I just thought there may be a particular format for producing the maps that will lend itself to smooth flow when zooming or jumping from one map to another.

Maybe for neophytes such as myself you can give some hints and helps about how you went about setting up the layering and adjoining of the maps you created.

Thanks for your help...Bernie WM3L berlyn@epix.net

506. Garmin Bulk Purchase

From: Dave Creek <dcreek@pixi.com>
Date: Fri, 24 Nov 1995 23:19:16 -1000 (HST)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.91.951124231424.6927C@godzilla14.pixi.com>
Rendered body type: text/plain

This message is forwarded from Sci. Geo. Satellite-nav

=====

Newsgroups: sci.geo.satellite-nav
Subject: Instructions to Mass Purchase GPS Boards
From: lver@ksu.ksu.edu (Lloyd Paul Verhage)
Date: 22 Nov 1995 17:23:43 -0600

If you'd like to get in on the mass buy of Garmin GPS boards, please do the following.

send email to the following address
maiser@humec.ksu.edu

In the body of your letter enter

sub gps "your email address"

I've set up this listserv so we can all communicate.
I got the documentation from Garmin, when you subscribe, you'll be sent a copy that I typed up.

The boards run from \$125 to \$599.

What I'll ask after we know how many want to purchase is the following.

A check or maony order for your board (I think I'd like M0 better)
A label with your address to send the board to.
Money for the padded envelope and postage (S&H).
(The boards are suppose to come in a small box, so we should be able to drop them into a padded envelope)

I'll talk to the post office on Friday and let you know the S&H.

Also, let me know what questions you have for Garmin. I'd like to get a list together the next time I call them. I'd like all concerns addressed before the purchase.

I think there's already enough interest. So this should work out better than the Motorola attempt last year.

You can contact me a verhage@humec.ksu.edu

Let's get this thing rolling.
(let me guess what will beunder your Christmas tree this year)

Dave Creek, NH6BA
Ewa Beach, HI
dcreek@pixi.com

507. Re: [APRSSIG:4604] Maps and GZIP

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 25 Nov 1995 07:12:45 -0600 (CST)
To: aprsig@tapr.org
Message-ID: <199511251312.HAA18035@solar.cs.tamu.edu>
Rendered body type: text/plain

Bernie Andreoli sez:

```
>
> OK...found the problem. My copy of GZIP was corrupt. I DL'ed it
> again and it came down as 39Kb, the original one I tried to use
> showed 42Kb. Why that was I don't know but everything is working
> fine now.
```

I think I'd really consider running a good virus scanner, like McAfee, after that experience...

> Now for something completely different! I DL'ed 8 maps (Quads) for
> the Scranton area. My question is...Is there a way to determine the
> boundaries of the Quads combined? The way I see it, is, using the
> center of Scranton coordinate I would cover an area 1 degree N to S

Coordinates

> and 30 minutes E to W. Is this correct? If not, could someone
> explain the layout to me. Thanks.

Look, with a DECENT text editor, at the first 9-10 lines of the DLG file after you unblocked it. You'll see the NE, NW, SE, and SW corners shown in degrees, minutes and seconds. And, it sounds like you got the whole area.

73, gerry
n5jxs@tamu.edu

508. Re: [APRSSIG:4628] Garmin Bulk Purchase

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>
Date: Sat, 25 Nov 1995 08:31:56 -0500
To: aprssig@tapr.org
Message-ID: <30B71ACC.5E11@wingsbbs.com>
Rendered body type: text/plain

Dave Creek wrote:

>
> This message is forwarded from Sci. Geo. Satellite-nav
>
>

> =====

```
> Newsgroups: sci.geo.satellite-nav
> Subject: Instructions to Mass Purchase GPS Boards
> From: lver@ksu.ksu.edu (Lloyd Paul Verhage)
> Date: 22 Nov 1995 17:23:43 -0600
```

```
> If you'd like to get in on the mass buy of Garmin GPS
> boards, please do the following.
```

```
> send email to the following address
> maier@humec.ksu.edu
```

> In the body of your letter enter

```
> sub gps "your email address"
```

```
> I've set up this listserv so we can all communicate.  
> I got the documentation from Garmin, when you subscribe, you'll  
> be sent a copy that I typed up.
```

> The boards run from \$125 to \$599.

```
> What I'll ask after we know how many want to purchase is the following.
>
```

> A check or maony order for your board (I think I'd like MO better)
 > A label with your address to send the board to.
 > Money for the padded envelope and postage (S&H).
 > (The boards are suppose to come in a small box, so we should be able to
 > drop them into a padded envelope)
 >
 > I'll talk to the post office on Friday and let you know the S&H.
 >
 > Also, let me know what questions you have for Garmin. I'd like to get a
 list
 > together the next time I call them. I'd like all concerns addressed before
 > the purchase.
 >
 > I think there's already enough interest. So this should work out better
 > than the Motorola attempt last year.
 >
 > You can contact me a verhage@humec.ksu.edu
 >
 > Let's get this thing rolling.
 > (let me guess what will beunder your Christmas tree this year)
 >
 > _____
 >
 > Hope this is of interest to someone.
 >
 > 73 es Aloha
 >
 > Dave Creek, NH6BA
 > Ewa Beach, HI
 > dcreek@pixi.com

What is it we are looking at? A stand alone GPS Board? Like the Motorola?

Sam.

509. Re: [APRSSIG:4611] Re: Maps and GZIP

From: Gerald J Creager <gerry@cs.tamu.edu>
 Date: Sat, 25 Nov 1995 07:38:57 -0600 (CST)
 To: aprssig@tapr.org
 Message-ID: <199511251338.HAA18176@solar.cs.tamu.edu>
 Rendered body type: text/plain

William Manley sez:

>
 > I'm no expert but I'd suggest eliminating the ".gz" suffix from the
 > command line and see if that makes a difference. I confess that I've had
 > my problems with gzip also. The most annoying is that, if the compressed
 > file was named filename and without an extension and it contained only a
 > single file of the same name, the thing unzipped the file and overwrote
 > itself. I've spent many confusing moments considering that one.

You're either right, or you're wrong. IF you do not specify a file, it looks
 for the .gz suffix.... If you specify an entire qualified file ('wambat.' or
 'wambam.gz') it doesn't care.

> A further issue I noted is that sometimes I've found need to unzip .tar
 > files. The syntax that worked in these instances was:

>
 > gzip -d <filename | tar

Hmmm. I shoul da thunk of this one!

73, gerry
 n5jxs@tamu.edu

510. Re: [APRSSIG:4630] Re: Garmin Bulk Purchase

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
 Date: Sat, 25 Nov 1995 10:37:00 -0500 (EST)
 To: aprssig@tapr.org
 Message-ID: <9511251537.AA05676@seism1.ess.sunysb.edu>
 Rendered body type: text/plain

>
 >
 >What is it we are looking at? A stand alone GPS Board? Like the Motorola?
 >

Here is what you receive when subscribing to this garmin gps bulk purchase

list, so you don't need to just too see.
Look's like interesting for those who want to build custom systems (ballons,
space...?). Also note that RS232 can work at 9600 bauds.

Bernard KB2TGH.

```
*****
*           Welcome to the Garmin Mass GPS Purchase ListServ           *
*****
```

All requests to this listserv should be send to maiser@humec.ksu.edu

1. To get a current list of members send the following message:
REVIEW GPS
2. To Unsubscribe to this listserv send the following message:
UNSUB GPS
3. To resubscribe to this listserv send the following message:
SUB GPS "your email address"

Your moderator is Lloyd Verhage, verhage@humec.ksu.edu

```
*****
*           About The Garmin GPS Boards                               *
*****
```

The boards we're looking at purchasing are described below. They can start
with the GPS engine, but we can add options to them. The prices quoted are
for 5 - 99 pieces, which I think we already have sufficient demand.

| UNIT P/N | COMES WITH | \$ PRICE |
|-----------|---|----------|
| GPS20-000 | MultiTrac8 sensor board only | 150 |
| GPS20-101 | GPS20 with GA28 marine ant. and 15' cable | 240 |
| GPS20-020 | GPS20 with GA27 mag mount ant. and 8' cable | 240 |
| GPS20-099 | GPS20 Eval Kit* | 499 |
| GPS25-000 | PhaseTrac12 sensor board only | 225 |
| GPS25-010 | GPS25 with GA28 | 315 |
| GPS25-020 | GPS25 with GA27 | 315 |
| GPS25-099 | GPS25 Eval Kit* | 599 |
| GPS30-000 | MultiTrac8 and ant. combo | 240 |
| GPS30-099 | GPS30 Eval Kit* | 499 |
| GPS30-100 | GPS30 PC Version with DB9 connector | 250 |
| GPS31-000 | same as above, but with threaded 1" marine ant. | 240 |
| GPS35-000 | PhaseTrac12 and ant. combo | 315 |
| GPS35-099 | GPS30 Eval Kit* | 599 |
| GPS35-100 | GPS35 PC version with DB9 connector | 325 |

* Eval Kits come with GPS engine, antenna with cables & connector,
power/data cable
with connector, NMEA monitor software & documentation. All Garmin engines come
complete with DGPS input capability, PPS timing output and lithium 3V
battery on board

A note from our Garmin rep states that for this order, he will include one
piece of
documentation for each board (normally they only send it with the Eval Kits)
ordered
at no additional cost. This documentation is copyrighted, so we don't want
to go
around photocopying it.

Further Info

PhaseTrac12: 12 parallel channel, phase tracking accuracy in the world's
smallest GPS
footprint.

MultiTrac8: Tracks and uses up to 8 satellites for accurate, reliable GPS
data at an
incredibly low 1 watt power consumption. With same footprint as PhaseTrac12
and a real
time clock, PPS timing and nonvolatile memory right on the board.

TracPac: A sure bet on Plug and Play GPS. Combines a GPS engine and
antenna in an all
weather, low profile housing that's a perfect fit for vechicle and PC
applications. Just

| | PhaseTrac12 | MultiTrac8 |
|-------------------|--|---------------------|
| Architecture | 12 parallel channels | Patented MultiTrac8 |
| Time to first fix | | |
| reacquisition | < 2 sec | < 2 sec |
| warm | 15 sec | 20 sec |
| cold | 45 sec | 2 min |
| sky search | < 5 min | 15 min |
| update rate | 1 sec continuous | 1 sec cont. |
| Dynamics | | |
| velocity | 999 knots | 999 knots |
| acceleration | 6 g | 3 g |
| jerk | 60 m/s ³ | 20 m/s ³ |
| Datums | 102 predefined, 1 user defined | |
| Electrical | | |
| input voltage | 5.0V DC +/- 5% regulated | |
| power consumption | 1.1 Watts | 0.8 watts |
| backup | on board 3V lithium (10 year lifetime) | |
| sensitivity | -166 dBW | |
| Connectors | | |
| antenna | 50 ohm MCX female connector for active (5V DC @ 15ma) or passive antenna | |
| power/data | single row, right angle 12 pin male | |
| Physical | | |
| configuration | 1 integrated board engine | |
| size | 1.83"W X 2.75"L X 0.45"H | |
| weight | 1.1 oz | |
| op temp | -30 deg C - 80 deg C
(remove Li battery for extended usage above 80 deg C) | |
| storage temp | -40 deg C - 85 deg C | |
| Interfaces | | |
| compatibility | 2 RS-232 serial ports | |
| data rate | User selectable baud rate
1200/2400(tx only)/4800/9600 | |
| format | NMEA 0183 v.2.0, ASCII | |
| inputs | initial position, date and time (not required),
2D/3D & earth datum command,
RTCM-104 v.2.0 differential | |
| outputs | position, velocity & time, receiver and
satellite status, geometry and error estimates | |
| timing output | timing output with +/- 1 microsecond accuracy | |

The TracPak is an integrated engine/antenna system
2.33"W X 3.80"L X 1.04"H
7.2 oz

 * FAQ *

1. Any altitude limitations?

Yes. The GPS engines will deactivate themselves above 50,000 feet. I'm looking into getting a non-export agreement so my board will function in a helium balloon.

2. ?????

```

<<<>>>          Bernard Seront
|               | e-mail: seront@seism1.ess.sunysb.edu
| (o) (o)       | http://rock.ess.sunysb.edu:8080/
\               | addr: Department of Earth and Space Sciences
| , _ |         | State University of New-York at Stony Brook
| _ |          | STONY BROOK, NY, 11794-2100, USA
/ _ \          | phone: (516)632-8302 fax: (516)632-8240

```

511. APRS help freq

From: ah586@detroit.freenet.org (Steve Sable)
Date: Sat, 25 Nov 1995 11:55:44 -0500
To: aprssig@tapr.org
Message-ID: <199511251655.LAA15900@detroit.freenet.org>
Rendered body type: text/plain

I just got a new Kenwood TS-450S which is wired now to run FSK.
Problem is am I running within the band on 30m. APRS HF 30m is 10.151 but for FSK you tune to 10.149.30mhz. Wont fire it up until someone can tell me for sure that I will be within the band range.

--
 _ _ | | _ _ | _ | \ \ / / _ | ah586@detroit.freenet.org
 \ _ \ _ | _ | \ \ / / _ | N8NYU
 _ _ / _ | _ | \ \ / / _ | Maybee, Michigan

512. Re: [APRSSIG:4626] More TAPR Trouble?

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Sat, 25 Nov 1995 13:07:43 -0500
To: aprssig@tapr.org
Message-ID: <199511251812.NAA08906@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 10:10 PM 11/24/95 -0600, you wrote:

>Hi group,
>I've been having trouble downloading large files from ftp.tapr.org. I've
>been trying to get APRTRAK, but the download never finishes, and shows no
>signs that the download is progressing (i.e. AOL never asks me for a
>filename). Small files seem to work OK, however. Am I just not waiting long
>enough (it's an estimated 9 minute download), or are others seeing similar
>behavior?
>Thanks for the help,
>73 de Tom - KC7AGK (turnstone@aol.com)
>/ex
>

It's not a problem on your end, i think. A couple of recent downloads I did from TAPR were just so slow, that any good sized file would take an hour. If you have a fancy FTP downloader you can watch the progress; if not you worry that nothing is happening. Not a big problem if your account is free, pricey if it's not.

Bob Kirk
N30ZB

513. MacAPRS Guide

From: davidc@tbcnet.com (David Chesser)
Date: Sat, 25 Nov 1995 16:49:50 -0600
To: aprssig@tapr.org
Message-ID: <199511252249.QAA02064@tbc2.tbcnet.com>
Rendered body type: text/plain

Announcement!

David Chesser (KA9NHL) and Tim Hays (N2KBG) have released the long awaited MacAPRS Guide file for the MacAPRS program. This guide file works with system 7.5 or system 7.0 with the proper extentions from Apple. The guide file is used as a help file when running MacAPRS. This guide file can be downloaded FTP from the (NIAN) Northern Illinois APRS Networks Web site <http://tbcnet.com/~davidc/aprs.html> Any responce can be to Email davidc@tbcnet.com The guide file is being updated but my not keep up with current releases of MacAPRS.

David Chesser

514. Re: [APRSSIG:4633] APRS help freq

From: jkerns@usit.net (jim kerns)
Date: Sat, 25 Nov 1995 06:26:47 -0500
To: aprssig@tapr.org
Message-ID: <199511252320.SAA05456@use.usit.net>
Rendered body type: text/plain

>
>

>I just got a new Kenwood TS-450S which is
>wired now to run FSK.
>Problem is am I running within the band
>on 30m. APRS HF 30m is 10.151 but for FSK
>you tune to 10.149.30mhz. Wont fire it up
>until someone can tell me for sure that I
>will be within the band range.
>
>
>--
> _ | _ | _ | \ \ / _ | ah586@detroit.freenet.org
> _ \ _ | _ | \ \ / _ | N8NYU
> _ / _ | _ | \ \ / _ | Maybee, Michigan
>
>
>
Steve, APRS in 30 meters runs on LSB and this puts you inside the bank by quite abit.

Jim, N4PUQ>

515. Re: [APRSSIG:4635] MacAPRS Guide

From: sparks@communique.net (Jan R. Edwards)
Date: Sat, 25 Nov 1995 21:27:14 -0500
To: aprssig@tapr.org
Message-ID: <v01530500acdd80771412@[204.27.122.147]>
Rendered body type: text/plain

>Announcement!
>
> David Chesser (KA9NHL) and Tim Hays (N2KBG) have released
>the long awaited MacAPRS Guide file for the MacAPRS program. This guide
>file works with system 7.5 or system 7.0 with the proper extensions from
>Apple. The guide file is used as a help file when running MacAPRS. This
>guide file can be downloaded FTP from the (NIAN) Northern Illinois APRS
>Networks Web site <http://tbcnet.com/~davidc/aprs.html> Any response can be
>to Email davidc@tbcnet.com The guide file is being updated but my not keep
>up with current releases of MacAPRS.
>
> David Chesser

David,

Just a note to let u know the URL pointer is incorrect for the Guide file.
Was able to get it okay at:

<ftp://ftp.tbcnet.com/pub/davidc/guide.hqx>

Looking forward to checking it out. Thanks! 73

Jan Edwards
WB5TKC
sparks@communique.net

516. 100K maps

From: ke4eer@ro.com (William Nolle)
Date: Sun, 26 Nov 1995 07:30:52
To: aprssig@tapr.org
Message-ID: <199511261438.IAA08402@sh1.ro.com>
Rendered body type: text/plain

Finally found a map i couldn't make using MKMAPHK. I attempted to make a
1 mile map of a portion of Atlanta Georgia and the program just discontinues
and gives me the error message Subscript ou of range at address 1D19:13B8
would someone that has the GA CD give this a try, the coordinates are
33,45.76
84,23.01
at a +1 range

Also Bob Mapfix16.exe locks up my computer with large files like 60-90K

I just wonder if it's my pc setup or what?.

Bill KE4EER
ke4eer@ro.com

517. Re: [APRSSIG:4637] Re: MacAPRS Guide

From: davidc@tbcnet.com (David Chesser)
Date: Sun, 26 Nov 1995 09:08:23 -0600
To: aprssig@tapr.org
Message-ID: <199511261508.JAA08295@tbc2.tbcnet.com>
Rendered body type: text/plain

Thanks for the reply Keith has changed a number of things in his program that I need to add to the Guide. The next area I'll update is the use of callbook data settings as this area is sometimes confusing.

518. Ultimeter II

From: "Tom Robertson" <tlr@mindspring.com>
Date: Sun, 26 Nov 1995 10:20:21 +0000
To: aprssig@tapr.org
Message-ID: <199511261522.KAA25500@borg.mindspring.com>
Rendered body type: text/plain

Hello All,

I seem to be having a problem using the Ultimeter II in standalone mode. I programmed * into GPSText. I set LOC with an appropriate value. I set BText to !3230.30N/08504.40W_Tom-Phenix City. Set Beacon Every to an appropriate value. Set echo off.

The TNC appears to be transmitting the appropriate Ultimeter output. The problem is that APRS is not picking up the POSIT report. If I monitor the transmitted packets from the ultimeter I see the beacon text as set above. I also monitor the LText with correct Ultimeter weather data. If I use the N command in APRS it show the weather with my call sign but doesn't display the position on the map. At the bottom of the APRS map the following is displayed when I use the N command.

```
@261002/0000.00n/00000.00w_67/000/T045/R.../(I forget the rest)
Becon @3230.30/08502.40w_Tom-Phenix City
```

Any ideas why the position will not shoe up on APRS. I monitored the data using APRs78.4b.

Thanks,

Tom
NL7ZL
tlr@cbus.mindspring.com

```
*/                               /*
*/      Tom Robertson           /*
*/      NL7ZL                   /*
*/      tlr@cbus.mindspring.com  /*
*/                               /*
```

519. More California maps

From: KSwaggart@aol.com
Date: Sun, 26 Nov 1995 10:29:38 -0500
To: aprssig@tapr.org
Message-ID: <951126102936_116557623@emout06.mail.aol.com>
Rendered body type: text/plain

CAMAPS05.zip and CAMAP4_5.zip have been uploaded to
tapr.org:/tapr/SIG/aprssig/upload/pcmaps

CAMAPS05.ZIP contains all the California maps I have. CAMAP4_5.ZIP contains only the new maps created since CAMAP04.ZIP.

Use pkunzip -dn, with the file in your top level APRS directory. A new MAPLIST.CA will replace the old one, and the maps will be placed in your \MAPS subdirectory.

If you have any more California maps that should be added to this series, please send them to me as an attached .zip file to kswaggart@aol.com directly, not as a reply to this SIG message.

73, Ken, W7KKE
kswaggart@aol.com

520. MKMAPHK1.BAS modifications

From: KSwaggart@aol.com
Date: Sun, 26 Nov 1995 10:29:42 -0500

To: aprssig@tapr.org
Message-ID: <951126102941_116557656@mail02.mail.aol.com>
Rendered body type: text/plain

During this last orgy of map making, I made a few "minor" modifications to MKMAPHK1.BAS to tailor it for my own preferences. If someone wants to try it out, send me a message directly at kswaggart@aol.com and I'll send you MKMAPKKE.bas as an attached file.

The tweaks I made are:

1. Extracts airports from the Miscellaneous Transportation Features (MTF) files as color 14 (yellow). Airports take up very few points and often adds a prominent landmark. Unfortunately, many of the DLG files are so old (15 years + for some) that a lot of the smaller airfields have folded! These can be manually edited out with mapfix.

2. For maps of 2 miles or less, extracts streams.

3. Also for maps of 2 miles or less, adds 4 wheel drive and "other than 4 wheel drive" trails as color 8 (dark grey). This plots as a dashed line in APRS as has been used for railroads, which I haven't been including in my maps. I added these for a local Search & Rescue group, however there haven't been a lot of trails in the areas I've been extracting.

My CDROM doesn't include any "hypsography" (elevation contours) so I haven't played with extracting those. If anyone is interested in hacking the program to see how the contour maps would look, try modifying one of the CASE statements to CASE 190 and minor% = 200 and see what happens.

73, Ken, W7KKE
kswaggart@aol.com

521. I'm missing something?

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 26 Nov 1995 10:39:07 -0500 (EST)
To: aprssig <aprssig@tapr.org>
Message-ID: <Pine.3.89.9511261037.A4518-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I believe I've missed something among the many instructions concerning using MKMAPHK1.EXE.

I've dl'd five files from edcftp.cr.usgs.gov and the www equivalent. To make them DOS compatible, they were called RDS140PT.GZ, with the number "14" adjusted to 15, 22, 23 and 24 for respectively. I unzipped each (gzip -d filename.gz) which left, in each case, ascii files called filename. I copied them to a single directory, so now I have:

```
\dlg\rds14opt  
\dlg\rds15opt  
\dlg\rds22opt  
\dlg\rds23opt  
\dlg\rds24opt
```

I copied mkmaphk1.exe to its own directory:

```
\mkmaphk\mkmaphk1.exe
```

>From \mkmaphk, I executed mkmaphk1.exe. At the prompt I indicated that the dlG files were in c:\dlG. I called my desired map name TEST. (I've tried a number of alternatives). I indicated the desired lat/long (26,18.0)/(80,18.0). Finally I tried +1 for map range. (Again, I've attempted various alternatives).

Every time I get the oops error message, complaining that there are no points within 1 miles of my map center.

Some observations:

The five dlG files completely cover the map range/center. I've noticed that the dlG files are terribly large (200k to 2000k). Does MKMAPHK1 accomodate extended memory or otherwise use overlaying within the protected mode?

I've tried to run MKMAPHK1.BAS from QBASIC and get a subscript out of bounds error in a DIM statement. Guess that won't work.

What am I missing?

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

522. Re: [APRSSIG:4616] Help with MAPLIST.***

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 26 Nov 1995 12:23:52 -0500 (EST)
To: n2czf@gate.net
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9511261241.A23672-a100000@acme>
Rendered body type: text/plain

On Fri, 24 Nov 1995 n2czf@gate.net wrote:

> I put the maps in descending order and have the correct map centers entered but
> more often than not I cannot get APRS to recognize that a map is there.
> Can anyone explain what I am doing wrong ??? Some of my maps do come up
> correctly so I know that I do have an idea of how to do it but it is not working
> for all of the maps.
>

1) Hi Rich - I kinda miss your newsletters
2) You are looking at what maybe the next "big" problem for maps, and that is map hierarchy (or anarchy). Using the Map Hrchy command will let you see what maps overlay what maps.
I advise people to customize their favorite maplist, and put the maps that they use the most at the bottom of maplist.
I hope that this is of some help

John Baum - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address: 39 56.35 N 082 58.89 W
Semi-Co-owner of H00T - Columbus Ohio's BiWeekly Humor Newspaper

523. USGS 1:100,000 Maps - PAPER & DATA

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 26 Nov 1995 12:26:45 -0500 (EST)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9511261245.A26510-b100000@acme>
Rendered body type: text/plain

I've must have been sleeping somewhere - all of a sudden the 1:100,000 USGS paper maps have become a hot topic back on the SIG.

These paper maps have been around sense the late 70's and early 80's and are an extraction of information taken from the 7.5's quads that they cover. (EVERYTHING IS BASED ON THE 7.5's - but when you start to up the scale, the accuray drops).

To date - all the Ohio County maps, and Mich maps that i've done were based off of the paper maps - the IL maps were done from the CD-ROM's. I'm working on a set of maps for SE 1/4 of OHIO from the CD's (The old fashion way - CONV100c - Mapfix68 - & Defragb) and am using the paper maps to check against the computer screen.

For every "Quad" on the CD - there should be a paper map in print- These maps normally cost \$4 from the USGS or State Geological centers. (beats buying 32 7.5's at \$1.75@).

Each state should have a master map of the USGS Topo's for that state available free of charge - These master maps will also have a list of the 1:100,000 maps available, as well a any other scale maps in print. AND IT IS FREE - IF YOU CAN FIND THEM.

John Baum - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address: 39 56.35 N 082 58.89 W
Semi-Co-owner of H00T - Columbus Ohio's BiWeekly Humor Newspaper
OHIO MAP MAKER - Into my 3rd year of making maps & still learning

524. Re: [APRSSIG:4643] I'm missing something?

From: "Bernie Andreoli" <berlyn@epix.net>
Date: Sun, 26 Nov 1995 14:00:36 -5
To: aprssig@tapr.org
Message-ID: <199511261859.NAA27276@epix.net>
Rendered body type: text/plain

On 26 Nov 95 at 9:56, William Manley wrote:

I believe I've missed something among the many instructions concerning using MKMAPHK1.EXE.

I've dl'd five files from edcftp.cr.usgs.gov and the www equivalent. To make them DOS compatible, they were called RDS140PT.GZ, with the number

"14" adjusted to 15, 22, 23 and 24 for respectively. I unzipped each (gzip -d filename.gz) which left, in each case, ascii files called filename. I copied them to a single directory, so now I have:

```
\dlg\rds14opt
\dlg\rds15opt
\dlg\rds22opt
\dlg\rds23opt
\dlg\rds24opt
```

I copied mkmaphk1.exe to its own directory:

```
\mkmaphk\mkmaphk1.exe
```

>From \mkmaphk, I executed mkmaphk1.exe. At the prompt I indicated that the dlg files were in c:\dlg. I called my desired map name TEST. (I've tried a number of alternatives). I indicated the desired lat/long (26,18.0)/(80,18.0). Finally I tried +1 for map range. (Again, I've attempted various alternatives).

Every time I get the oops error message, complaining that there are no points within 1 miles of my map center.

Some observations:

The five dlg files completely cover the map range/center.
I've noticed that the dlg files are terribly large (200k to 2000k). Does MKMAPHK1 accomodate extended memory or otherwise use overlaying within the protected mode?
I've tried to run MKMAPHK1.BAS from QBASIC and get a subscript out of bounds error in a DIM statement. Guess that won't work.

What am I missing?

Bill sounds like the same thing I did in the beginning. You must run unblock.bas on the files to get your *.dlg files before being able to use them.

Good Luck...Bernie, WM3L berlyn@epix.net

525. APRS/9600

From: ah586@detroit.freenet.org (Steve Sable)
Date: Sun, 26 Nov 1995 15:44:42 -0500
To: aprssig@tapr.org
Message-ID: <199511262044.PAA13785@detroit.freenet.org>
Rendered body type: text/plain

I have a Pk-900 and am mainly running APRS on VHF.
When I try to start APRS at 9600 it doesnt seem to run, but will work FB at 4800.
No big deal, but when I exit my regular packet prog, (PkGold) to run APRS the difference in the last baud rate conflicts and I have to do a hard reset on the TNC.
Any hint's?
Also, is there a simple way to switch ports?
I do see a band option of selecting 2bands but it doesnt seem to do anything. I have to goto COM/TNC and issue a command to sw ports.
Thanks 73 de Steve N8NYU

--

```
  _ | | _ | _ | \ \ / _ | ah586@detroit.freenet.org
 \_ \ | _ | _ | \ \ / _ |      N8NYU
  _ / _ | _ | \ \ / _ | Maybee, Michigan
```

526. Re: [APRSSIG:4646] Re: I'm missing something?

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Sun, 26 Nov 95 15:24:40 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511262125.PAA11439@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

Just a suggestion...order the CD-ROM. I ordered mine from GEODATA (1-314-341-0851, 100K DLG, OPTIONAL FORMAT!!!!, see the APRS docs to find out which area applies to you. \$32 + shipping), and got it within 5 days with credit

card. A whole lot less frustrating!

Then extract, using their (USGS's) instructions, all the DLG maps for the entire quadrant you want. The DLG files will take a LOT of space.

Then put MKMAPHK1.BAS in the same directory as the DLG data. Start the MKMAPHK1.BAS program. Enter the directory the DLG data (should be the same as the MKMAPHK1 program's in). Enter name of your map. Prg will add .MAP extension. Enter lat/long (DD,MM.mm/DD,MM.mm). No leading zeros on the long here. Hmm, I wonder what the folks in Vegas do? 115,02 Longitude.

It'll ask you for a radius of the map. Enter some figure like 5 for starters. Enter. The program will examine ALL of the DLG maps to see which ones will fit within the lat/long coordinates you entered.

If you see lines forming on the screen, you're just about there. If you don't ask for more detail than the program can give, the BAS will finish up with 3 files: yourmap.MAP, yourmap.DAT and TEMP. Depending on how the prg treated the map will determine which one if any of the files you will use.

Just remember, adding .MAP to either of the two other files MAY work with MAPFIXxx.exe. And if you're trying this with Win 95, I would recommend going directly to DOS unless you're comfortable with the new file/folder format. And the faster the computer, the better. A 486 or Pentium will make it alot less frustrating.

----- REPLY, Original message follows -----

```
> Date: Sunday, 26-Nov-95 01:10 PM
>
> From: Bernie Andreoli          \ Internet:   (berlyn@epix.net)
> To:   APRS SIG                 \ Internet:   (aprssig@tapr.org)
>
> Subject: [APRSSIG:4646] Re: I'm missing something?
>
> On 26 Nov 95 at 9:56, William Manley wrote:
>
>
> I believe I've missed something among the many instructions concerning
> using
> MKMAPHK1.EXE.
>
> I've dl'd five files from edcftp.cr.usgs.gov and the www equivalent. To
> make
> them DOS compatible, they were called RDS140PT.GZ, with the number "14"
> adjusted to 15, 22, 23 and 24 for respectively. I unzipped each (gzip -d
> filename.gz) which left, in each case, ascii files called filename. I
> copied
> them to a single directory, so now I have:
>
>      \dlg\rds14opt
>      \dlg\rds15opt
>      \dlg\rds22opt
>      \dlg\rds23opt
>      \dlg\rds24opt
>
> I copied mkmaphk1.exe to its own directory:
>
>      \mkmaphk\mkmaphk1.exe
>
> >From \mkmaphk, I executed mkmaphk1.exe. At the prompt I indicated that
> the
> dlg files were in c:\dlg. I called my desired map name TEST. (I've
> tried a
> number of alternatives). I indicated the desired lat/long
> (26,18.0)/(80,18.0). Finally I tried +1 for map range. (Again, I've
> attempted various alternatives).
>
> Every time I get the oops error message, complaining that there are no
> points
> within 1 miles of my map center.
>
> Some observations:
>
>      The five dlg files completely cover the map range/center.
>      I've noticed that the dlg files are terribly large (200k to 2000k
> ).
> Does MKMAPHK1 accomodate extended memory or otherwise use overlaying
> within
```

```

> the protected mode?
> I've tried to run MKMAPHK1.BAS from QBASIC and get a subscript
out of
> bounds error in a DIM statement. Guess that won't work.
>
> What am I missing?
>
> Bill sounds like the same thing I did in the beginning. You must run
> unblock.bas on the files to get your *.dlg files before being able to use
> them.
>
> Good Luck...Bernie, WM3L berlyn@epix.net
>
>

```

----- REPLY, End of original message -----

```

--
Barry Leonard
N9VJQ
DeKalb IL
Packet: N9VJQ@WB9SLE.IL.USA.NOAM
E-MAIL: jleonard@tbcnet.com
EN510W

```

527. Re: [APRSSIG:4645] USGS 1:100,000 Maps - PAPER & DATA

```

From: ke4eer@ro.com (William Nolle)
Date: Sun, 26 Nov 1995 15:59:20
To: aprssig@tapr.org
Message-ID: <199511262306.RAA18775@sh1.ro.com>
Rendered body type: text/plain

```

John you say IT'S FREE IF YOU CAN FIND THEM, Yes that may be true but i had a hard time even finding a decent map of the area, and this was from a mapstore. John where do you get the idea that all this 100K maptalk has been about paper maps??. I have only seen one message that even remotely talked about a paper map. Maybe you have been missing a lot of the sig mail!, As far as that you must have been sleeping, yes i really think you have. Answer me this why do we need a paper map for every quad on my CD?. That would cost more than my computer cost me Hi. Well i must have missed something out of you message, i'm doing fine making APRS maps without a paper map. I have made 245 maps for our state and counting, and by the way initially checked the accuracy and they look very good when overlaying a GPS track!. But John like i say did i miss something?.

```

Bill KE4EER
ke4eer@ro.com

```

```

> I've must have been sleeping somewhere - all of a sudden the
>1:100,000 USGS paper maps have become a hot topic back on the SIG.
> These paper maps have been around since the late 70's and early
>80's and are an extraction of information taken from the 7.5's quads that
>they cover. (EVERYTHING IS BASED ON THE 7.5's - but when you start to up
>the scale, the accuracy drops).
> To date - all the Ohio County maps, and Mich maps that i've done
>were based off of the paper maps - the IL maps were done from the CD-ROM's.
>I'm working on a set of maps for SE 1/4 of OHIO from the CD's (The old
>fashion way - CONV100c - Mapfix68 - & Defragb) and am using the paper maps
>to check against the computer screen.
> For every "Quad" on the CD - there should be a paper map in print-
>These maps normally cost $4 from the USGS or State Geological centers.
>(beats buying 32 7.5's at $1.75@).
> Each state should have a master map of the USGS Topo's for that
>state available free of charge - These master maps will also have a list
>of the 1:100,000 maps available, as well as any other scale maps in print.
>AND IT IS FREE - IF YOU CAN FIND THEM.
>
>
>John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
>Cruise Missile Address: 39 56.35 N 082 58.89 W
>Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newspaper
>OHIO MAP MAKER - Into my 3rd year of making maps & still learning
>
>

```

528. Re: [APRSSIG:4633] APRS help freq

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 26 Nov 1995 20:33:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951126203136.20503Q-100000@greatlakes>
Rendered body type: text/plain

On Sat, 25 Nov 1995, Steve Sable wrote:

> on 30m. APRS HF 30m is 10.151 but for FSK
> you tune to 10.149.30mhz. Wont fire it up

Yes, 10151 is a LSB freq, so it is the same as 10,149.3 FSK.

Tests show that 300 Baud FSK will be down 40 dB at the bandedge as required by the rules.

529. Re:] Re: USGS 1:100,000 Maps - PAPER & DATA

From: rwf <rwf@MindSpring.COM>
Date: Sun, 26 Nov 1995 20:02:40 -0500
To: aprssig@tapr.org
Message-ID: <199511270102.UAA10317@borg.mindspring.com>
Rendered body type: text/plain

I brought up thepaper map topic when I dug up an old Greater Atlanta Region 1 x 2.5 degree map. I noticed it was marked in 7.5 min quads and was handy for visualizing where everything was in relationship to everything else.

The map store (who incidentally charges about 3.00 for the "free" index map) told me there were only about 7 or 8 areas of these "experimental" 100k maps made.

Were they blowing smoke to me, then. I think John Baum said these 100k paper maps exist for all areas.

Ralph

530. Re: [APRSSIG:4647] APRS/9600 (PK-900 TNC)

From: n2czf@gate.net
Date: Sun, 26 Nov 1995 19:20:09 -0500
To: aprssig@tapr.org
Message-ID: <199511270020.TAA42297@tequesta.gate.net>
Rendered body type: text/plain

I have run a PK-900 for several years now as a GATEWAY and there are a few things that new users to APRS must learn to so since APRS will not do it for you.

- 1) You must have the TNC in COMMAND mode, not HOST mode, it will NOT work in HOST!
- 2) Set APRS to run at a baud rate (that is TERMINAL RATE not RADIO) to whatever you normally run your other programs at. I have set a default of 9600 unless I am doing GPS operations.
- 3) to Switch from HF to VHF you must send the commands "O" "C" "T" in APRS to get to the CMD: prompt. Once there DO a JA for VHF or a J0 for HF.
- 4) If your stream is not set set it to \$7C so that it understands a | to be the correct character to look for in band changing.
- 5) Make sure that monitor is set to MON 1/1 and MCON is set to MCON 0/0 other ways will work but this is how I like it personally.
- 6) Make sure that HB is set to 300 for HF Baudrate of 300.
- 7) Make sure that your modems are set correctly! MODEM 10/3 is the correct setting.

This will get you on your way to APRS PK-900 operations for now. Some of these settings you can set in the SYSTEM files some do not like being placed there so you will need to do that yourself every time.

BTW if you leave your PK-900 on the APRS frequency AFTER you shut off the program please set your RESTORE.TNC file to MON 0/0. This will prevent your TNC from having a Comm Buffer Overflow problem while you are away.

Seems as if the interest in APRS among PK-900 users is not great enough to validate a modified version of it, or implementations of special commands so we just got to learn do things by habit for now.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

531. Re: [APRSSIG:4638] 100K maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 26 Nov 1995 20:55:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951126205247.20503T-100000@greatlakes>
Rendered body type: text/plain

On Sun, 26 Nov 1995, William Nolle wrote:

> Also Bob Mapfix16.exe locks up my computer with large files like 60-90K

MAPFIX should handle up to 18000 points according to the size of the arrays. Since it is a manual reduction process, I have never tried it much bigger than about 12k... POINTS. I guess since 3K points equates to about 30k file, then MAPFIX should be able to take one up well over the 90k you mention... I DONNO. FOUND my CD, now I will try some map makin...

532. Re: [APRSSIG:4640] Ultimeter II

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 26 Nov 1995 21:01:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951126205943.20503V-100000@greatlakes>
Rendered body type: text/plain

On Sun, 26 Nov 1995, Tom Robertson wrote:

> Hello All,
> I seem to be having a problem using the Ultimeter II in standalone
> mode. I programmed * into GPSText. I set LOC with an appropriate
> value. I set BText to !3230.30N/08504.40W_Tom-Phenix City. Set
>
> @261002/0000.00n/00000.00w_67/000/T045/R.../(I forget the rest)
> Becon @3230.30/08502.40w_Tom-Phenix City

APR REPLY: If the POSIT is showing up on the L-LIST, then APRS is NOT seeing a properly formatted POSIT. In the above example, there is no N for NORTH. (it is there in your description however)

533. Re: [APRSSIG:4616] Help with MAPLIST.***

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 26 Nov 1995 20:01:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951126200004.20503I-100000@greatlakes>
Rendered body type: text/plain

On Fri, 24 Nov 1995 n2czf@gate.net wrote:

> begining and the rest has been a piece of cake so far. My problem is with the
> maplist files, no one seems to have a problem with this except for me.

APR: Are you sure you are not leaving off the ending comma if there are no comments on the map line?

534. Re: [APRSSIG:4606] KPC3 & U-II ??

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 26 Nov 1995 19:47:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951126194640.20503F-100000@greatlakes>
Rendered body type: text/plain

On Fri, 24 Nov 1995, Ann Reeves wrote:

> Still having trouble hooking up the Ultimeter-II to KPC3 to do weather
> remotely. I can't seem to get any data from the U-II. The cable works
> fine into the computer with APRS WX but in spite of setting GPSHEAD to *
> or #, the LTEXT never changes when I use the same cable and a gender
> changer into the tnc.

Are you using the REQUIRED -V pull down resistor? It may work without it on your PC, but not with the TNC!

535. APRS growth

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 26 Nov 1995 19:24:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951126190156.20503A-100000@greatlakes>
Rendered body type: text/plain

I got to spend some time over TNXgiving to run a ZIP code plot against my files, and came up with the following areas that showed up with at least a handful of registered users:

| | |
|--------------|--------------------|
| New England | New Jersey |
| Maryland | Northern VA |
| Western Ohio | Cleveland |
| Detroit | Chicago |
| Atlanta | Huntsville |
| St Louis | Kansas City |
| Tampa | Miami area |
| Houston | Dallas |
| Phoenix | Los Angeles |
| San Diego | San Francisco area |
| Iowa | |

There are a few users in some other big cities, but not a critical mass, I guess, and most rural areas are bare... In general, there were no surprises.

My purpose for doing this was to see whether there were any areas of significant activity that did NOT have at least a 32 mile map of the area... None seemed obvious to me... But I did do a 32 mile map of NE Montana, since I got my first user up there...

DE WB4APR

536. APRS and Geminids

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Sun, 26 Nov 1995 21:37:53 -0600
To: aprssig@tapr.org
Message-ID: <199511270338.VAA29340@sparc.isl.net>
Rendered body type: text/plain

I'm planning on participating once again in the meteor packet activity in December. I'm considering trying to use APRS this time, but I have some questions since I've only "played" with APRS and don't know all the ins and outs yet.

First, I read meteor.doc so I think I know how to get it set up in the right mode. I want to be sure I will get any "hits" properly recorded. On which screen will I see the packets? The "P" screen? Will they be date/time stamped and will I get all of them on an unregistered copy? Will they be logged to disk? In other words, I want to make sure that I don't lose data. Took me one night last time to get things set up on our club station with unfamiliar software and hardware so I didn't get the times recorded of the first few packets we received. With only one 24 hour period this time, I want things to go right!

I like the idea of seeing the station locations on the map and others around here who have been interested in my activity in the previous experiment might be suitably impressed!

Also, being in the upper midwest, I'm sort of in an interesting position considering the NE/NW/SE/SW directions for when to transmit. If I understand the documentation correctly, APRS will use the "correct" 15s portion of a minute to transmit. (How often during that period?) The correct period for me will be the first, or NE period. However, during the last shower, all the stations participating were East and ESE of here. That puts us all on at the same time. I rather think beam heading should be the more important factor for determining when to send (but I'll claim my ignorance of meteor shower propagation at this point!).

That's all for now. Thanks for any help!

73.
Tony Drumm
internet: tdrumm@sparc.isl.net
Packet: aa0sm@wd0gnk.#semmn.mn.usa.na

537. registration and check is on the way.

From: kc60xk@primenet.com (Barry Logan)
Date: Sun, 26 Nov 1995 21:36:40 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <199511270436.VAA08428@usr6.primenet.com>
Rendered body type: text/plain

REAL NICE PROGRAM I HAVE 74b RUNNING ON MY 386 AND I ALSO TRYED IT ON MY 486
DESKTOP AND LAPTOP WITH NO PROBLEMS....

BARRY LOGAN KC60XK

[Attachment: REGISTER.DOC; application/mac-binhex40; 3,165 bytes]

538. Re: [APRSSIG:4658] APRS and Geminids

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 26 Nov 1995 23:51:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951126234036.20957G-100000@greatlakes>
Rendered body type: text/plain

EVERYONE THAT is serious about the meteor scatter test had better PRACTICE!

EVEN I dont remember what the METEORSCATTER MODE DOES!

Get a friend on the air on a TEST freq, and RUN ths software before the
big test. Here are some other replies to the following Questions:

On Sun, 26 Nov 1995, Tony Drumm wrote:

> up in the right mode. I want to be sure I will get any "hits"
> properly recorded. On which screen will I see the packets?
> The "P" screen? Will they be date/time stamped and will I get
> all of them on an unregistered copy? Will they be logged to disk?

REPLY: Yes, on the P and or L lists, but only the time of the LAST one
per station will be shown. The HEARD page will show how many p er hour
per station, but not the exact times. I think this all works for
unregistered users, up to the 1 page limit...

> Also, being in the upper midwest, I'm sort of in an interesting
> position considering the NE/NW/SE/SW directions for when to
> transmit. If I understand the documentation correctly, APRS will
> use the "correct" 15s portion of a minute to transmit. (How often
> during that period?) The correct period for me will be the first,
> or NE period. However, during the last shower, all the stations
> participating were East and ESE of here. That puts us all on
> at the same time. I rather think beam heading should be the more
> important factor for determining when to send (but I'll claim my
> ignorance of meteor shower propagation at this point!).

REPLY: If you are going to beam to the SE, then you will have no
conflict to the south eastern states. If you are beaming more ESE
and want to hit the East states, then you should skew your clock
so that you are LISTENING during the first 15 seconds when they
are transmitting. But coordinate with other locals. If you transmit out
of sync so that you can listen IN your time block, then remember that you
are TRANSMITTING when someone else in your area may be LISTENING for a
different quadrant.

When you set up MScat mode, it asks you for a percentage. If you
enter 100% then you will transmit the full 15 seconds.

TEST IT GUYS! I dont want to hear about bugs the day after either! hi hi

539. Re: [APRSSIG:4646] Re: I'm missing something?

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 27 Nov 1995 07:40:05 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511270759.B11457-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

UNBLOCK.BAS??? Where can I find a copy of UNBLOCK.BAS?

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Sun, 26 Nov 1995, Bernie Andreoli wrote:

>
> Bill sounds like the same thing I did in the beginning. You must run
> unblock.bas on the files to get your *.dlg files before being able to
> use them.
>
> Good Luck...Bernie, WM3L berlyn@epix.net

540. Re: [APRSSIG:4638] 100K maps

From: "Thomas H. Busch" <TOMB@avoca.nwscs.sea06.navy.mil>
Date: Mon, 27 Nov 1995 09:08:18 EST
To: aprssig@tapr.org
Message-ID: <199511271413.IAA00422@sys1.tapr.org>
Rendered body type: text/plain

> 1 mile map of a portion of Atlanta Georgia and the program just
discontinues
> and gives me the error message Subscript ou of range at address
1D19:13B8

I have been having similar problems with the Louisville-east data I
downloaded. I didn't have them in the Bloomington Indiana area.

It seems like the Louisville data is much more fragmented. The temp
file is intact, but when I load it into mapfix16, I see the stair-step phe-
nomenon I've seen discussed here.

For me, the subscript-out-of-range error occurs down to about the
2-mile or so map size.

541. QST Patch Antenna

From: Michael Walker <mwalker@gold.interlog.com>
Date: Mon, 27 Nov 1995 09:51:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9511270920.A15198-0100000@gold.interlog.com>
Rendered body type: text/plain

I have built the QST patch antenna and have got great results, but I need
to improve the low level signals from the Horizon. With 10ft of RG-58
and a crimp on BNC connector, I get signals from with the middle (45
degree) circle that sometimes exceed the top of the graph (ie: 20 over s9)

>From this point of view, I can see that it doesn't need a preamp. Has
anyone experimented with the spacing to see how it affects the
"beamwidth"?

ideas are appreciated. Actual experimentation is even more appreciated.

Many thanks...mike

Michael Walker
mwalker@interlog.com
VA3MW

542. Re: [APRSSIG:4661] Re: I'm missing something?

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 27 Nov 1995 10:01:44 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511270948.A16221-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I figured it out myself: dl'd unblock.zip from ftp.tapr.org. And the
better news is that I managed to generate a 1 mile map of my qth.
MAPFIX16.EXE worked as advertised too.

But, the resulting map is missing major roads. I seem to remember
someone on the sig (Bob?) mentioning that the 100k data dl'd from
edcftp.cr.usgs.gov yielded good starting points for APRS maps. With that
in mind, I strongly agree. However the data for south Florida is dated
1987. That is virtually the stone age considering the rate of
construction which takes place here.

It was a fun exercise; I'll no doubt play with it more exploring other S.
Fl. data imbedded in the dl'd set from usgs. But I must say that if I
paid for the CDROM and found it as sparse as this dl'd data, I'd be a
very unhappy camper.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Mon, 27 Nov 1995, William Manley wrote:

```
> UNBLOCK.BAS??? Where can I find a copy of UNBLOCK.BAS?
>
>
> William Manley
> z002594b@bcfreenet.seflin.lib.fl.us
>
>
> On Sun, 26 Nov 1995, Bernie Andreoli wrote:
>
> >
> > Bill sounds like the same thing I did in the beginning. You must run
> > unblock.bas on the files to get your *.dlg files before being able to
> > use them.
> >
> > Good Luck...Bernie, WM3L berlyn@epix.net
>
>
```

543. APRS VHF DX

From: AA8JK@aol.com
Date: Mon, 27 Nov 1995 10:39:44 -0500
To: aprssig@tapr.org
Message-ID: <951127103942_117418587@mail04.mail.aol.com>
Rendered body type: text/plain

Hello,

It was a nice surprise to see the VHF DX early on Saturday, 25 November 1995 to the north and south from Dayton, Ohio.

At one time, (aprox 0200 EST) I had stations on my screen from north of Detroit, MI south through Ohio and Kentucky. But at 0600 the stations from TN, AL and GA started to show up on my screen. WOW! This is the first time I have seen stations all along I-75 from Michigan to Georgia all on VHF. With some gateway action, a large part of I-75 looks to be covered by APRS stations.

Will I-75 be the first ALL APRS FREEWAY? I'm sure I-95 is very close too.

Looking for more APRS VHF DX,

Steve Caesar AA8JK VK4SID

TRI-STATE APRS WORKING GROUP (TAWG)

544. Re: [APRSSIG:4661] Re: I'm missing something?

From: "Bernie Andreoli" <berlyn@epix.net>
Date: Mon, 27 Nov 1995 18:35:40 -5
To: aprssig@tapr.org
Message-ID: <199511272334.SAA19335@epix.net>
Rendered body type: text/plain

On 27 Nov 95 at 6:43, William Manley wrote:

UNBLOCK.BAS??? Where can I find a copy of UNBLOCK.BAS?

On Sun, 26 Nov 1995, Bernie Andreoli wrote:

```
>
> Bill sounds like the same thing I did in the beginning. You must run
> unblock.bas on the files to get your *.dlg files before being able to
> use them.
>
>
> Good Luck...Bernie, WM3L berlyn@epix.net
```

I got it from the same place I got the other map making files. Try TAPR's ftp site for APRS software.

545. USGS is FAST after their vacation

From: rwf <rwf@mindspring.com>
Date: Mon, 27 Nov 1995 18:58:09 -0500
To: aprssig@tapr.org
Message-ID: <199511272358.SAA22304@borg.mindspring.com>
Rendered body type: text/plain

I ordered the area 3 USGS CD last Monday by FAXing my credit card info to Reston VA

It came today (one week , including Thanksgiving and a weekend)!

If this makes the Govt work that fast, they should get vacation more often :)

It sure beats downloading, too! You were right, Bob.

Ralph
N4NEQ

546. Re: [APRSSIG:4651] Re:] Re: USGS 1:100,000 Maps - PAPER & DATA

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Mon, 27 Nov 1995 19:40:51 -0500 (EST)
To: rwf <rwf@MindSpring.COM>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9511271948.A8549-b100000@acme>
Rendered body type: text/plain

On Sun, 26 Nov 1995, rwf wrote:

> I brought up the paper map topic when I dug up an old Greater Atlanta Region
> 1 x 2.5 degree map. I noticed it was marked in 7.5 min quads and was handy
> for visualizing where everything was in relationship to everything else.

Sorry - that what I get for getting old and senial.

> The map store (who incidentally charges about 3.00 for the "free" index map)
> told me there were only about 7 or 8 areas of these "experimental" 100k maps
> made.

They also sell 7.5's for \$3.00 @ ?

>

> Were they blowing smoke to me, then. I think John Baum said these 100k
> paper maps exist for all areas.

Blowing smoke.

The paper maps were the bases from which the data on the CD-ROM were generated from.

To get a index map of the 7.5 & 1:100,000 available for your area, you should contact your state geological service - or division of natural resources. If not then you can contact the USGS and ask for the

"Index to topographic and other Map Coverage" booklet for your state.

The phone numbers are:

USGS - Reston Va. - 703-648-6045
USGS - Denver Co. - 303-236-5829
USGS - Rolla M. - 314-341-0851

HAPPY MAPPING

Just don't forget where you're at.

John Baum - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address: 39 56.35 N 082 58.89 W
Semi-Co-owner of H00T - Columbus Ohio's BiWeekly Humor Newspaper

547. Re: [APRSSIG:4665] APRS VHF DX

From: n2czf@gate.net
Date: Mon, 27 Nov 1995 20:00:48 -0500
To: aprssig@tapr.org
Message-ID: <199511280100.UAA49971@tequesta.gate.net>
Rendered body type: text/plain

We had one opening in South FL last winter/spring that extended from NC/GA to Key West FL.along the digi paths, that was a sight to see!

As far as I-95 goes I can fill you in from NJ to FL....
As of 9/95 coverage areas follow.

Metro NYC to almost southernmost tip of NJ.
Aberdeen MD to almost Washington DC and some parts of Northern VA.
(all depends where you are many dead spots)
One very very long and quiet drive with no packets along I-95 till you reach
Central Florida.

South Melbourne area (south of the Kennedy Space Ctr.) to Central Palm Beach
County. Depending on your mobile station possibly no drops in coverage here.
South Palm Beach County (Boca Raton) well into Dade County thru all of Broward
Co. Due to the high RF in Dade County coverage varies in the Miami area, but
continues to Key West with some deadspots out in the middle of "nowhere". It is
kind of tough to set up a digi on a piece of ocean marsh that many call an
island, Flipper is not into APRS...yet! But all in all you can have most of the
Keys covered with the digi's located in Homestead, Marathon, and Big Pine Key.

All of the above is with an average mobile station eg: 50W mobile, roof mt. 5/8W
antenna.

Granted there are some areas that it will not work in but this goes for most
MOBILE DATA communication. Flutter kills our packets and so does the varying
terrain. I think that this stretch of road is the largest stretch covered by one
APRS network so far. I have not measured the distance from VA to NY compared to
Melbourne to Key West but I think the FL stretch is longer, not only that
Delaware APRS coverage is non-existent so the link is broken in that scenario.

Also I am thinking of MOBILE coverage here everyone, the coverage is quite a bit
better and much more reliable for home stations. If we speak about home stations
we go north to Titusville (Kennedy Space Center) and for an aircraft just short
of Havana! Yes it has been tried and we have actually had a APRS Tracker on 2
aircraft that did fly over Havana this past September and the one ship that was
rammed by two Cuban gun boats during a demonstration (No, not a APRS
"demonstration"! hi hi)

I also believe that Delaware home based station can make it into that APRS
corridor so their system is also quite impressive.

Anyone else have large coverage areas that you want to fill everyone in about ??

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

548. Re: [APRSSIG:4661] Re: I'm missing something?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 27 Nov 1995 19:04:28 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511280104.TAA26248@solar.cs.tamu.edu>
Rendered body type: text/plain

Look on <ftp://ftp.tapr.org/tapr/SIG/aprssi/upload/unblock.zip>

73. gerry

549. Re: [APRSSIG:4663] QST Patch Antenna

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 27 Nov 1995 19:10:14 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511280110.TAA26360@solar.cs.tamu.edu>
Rendered body type: text/plain

Actually, you DO NOT want to "improve" your low angle signals. There's 'way
too much ionosphere between you and the bird(s) to make them really useful.

In the urban canyon world, I run satellite masks (minimum elevations) at 15
degrees, with Motorola's "highest-in-sky" mode in effect. For general vehicle
location stuff, I run the mask at 10-15 degrees, depending on terrain. For
professional survey work, we run it at 15 degrees, then exclude up to 25
degrees by post-processing magic. For the differential base station, I
always keep the mask at 5 degrees... to make sure the base station is seeing
more than the mobiles.

If you have the mask down around 0, you're inducing system level ("common
mode") error that can be thought of as induced noise, into the solution set.
I'd be looking to keep the angles up.

73. gerry N5JXS

"Cows in Space"

550. Re: [APRSSIG:4664] Re: I'm missing something?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 27 Nov 1995 19:11:36 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511280111.TAA26400@solar.cs.tamu.edu>
Rendered body type: text/plain

1987 data is pretty recent! We get to play with 1992 data because we get it from the Tx Dept of Transportation... and do a lot of their maps for 'em.

73, gerry

551. Army-Navy

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Mon, 27 Nov 1995 20:21:26 -0500
To: aprssig@tapr.org
Cc: bruninga@nadn.navy.mil
Message-ID: <199511280126.UAA26203@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

Will there be a helmet run from Annapolis to Phila
broadcast on APRS this year; what hours & xmit
intervals?

Bob Kirk
N3OZB

552. My turn ...

From: quarry@q.continuum.net (Chip Griffin)
Date: Mon, 27 Nov 1995 20:23:11 -0500
To: aprssig@tapr.org
Message-ID: <v0153050aace013c0928f@[199.0.52.68]>
Rendered body type: text/plain

My turn to be victim ... I've heard others talk of getting disconnected ...
sometime last week I got bumped. Perhaps an investigation is warranted.
I'll talk to my provider to see if the mail server was down at any time in
the recent past ...

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (860-889-6427)

quarry@q.continuum.net | N1MIE@n1okk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

my home page: <http://q.continuum.net/~quarry/>
TRAUG home page: <http://q.continuum.net/~quarry/TRAUG.html>

553. Re: [APRSSIG:4655] Re: Help with MAPLIST.***

From: n2czf@gate.net
Date: Mon, 27 Nov 1995 20:25:25 -0500
To: aprssig@tapr.org
Message-ID: <199511280125.UAA54380@tequesta.gate.net>
Rendered body type: text/plain

I am putting in all the commas needed based on all the other entrys. Checked that
and made sure I put in a decimal instead of a comma in lat/lon. After using the
other map making programs that require a comma in that lat I thought it may have
been that, I was not lucky, it was not.

Everything is entered using an example so I am sure the entry is correct, I have
also done the same entry several times on different days to make sure I was not
overlooking a simple mistake.

As far as the comments I do insert a comma but I also always insert at least my
call as a comment.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

554. Olympic Touch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 27 Nov 1995 20:26:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951127202537.6247K-100000@greatlakes>
Rendered body type: text/plain

I got ZERO response from this posting. Maybe it didnt make it out on the net... Anyone have a foot in the door??

----- Forwarded message -----

Heard a rumor that HAM radio is NOT going to be used AT ALL this year for the cross country running of the Olympic Torch. The RUMOR says that someone teamed up with Radio Shack to use bazillions of CB's. BUT THAT on-air tests (without repeaters of course) are leaving the organiziers real worried about being able to communicate on CB... over the needed distances..

TWO THINGS COME TO MIND!

1) HAM RADIO needs to waltz in and save the day

2) I cant imagine anything more FUN than putting a GPS/TNC on the OLYMPIC TOURCH CHASE VEHICLE with the path of RELAY,WIDE,WIDE,WIDE!

[Then waltz into your local TV station with your LAPTOP]
[and show them what you can do! Dress well!, Shave.]

If anyone can substantiate this rumor and can find someone in charge and suggest A GPS unit on the Olympic Tourch, I bet you would have NO PROBLEMS GETTING PACCOMM or one of the other TNC MFRS to donate the equipment! But who has their foot in the door?

AND ATLANTA IS WIRED FOR APRS!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

555. Re: [APRSSIG:4676] Olympic Tourch

From: ke4eer@ro.com (William Nolle)
Date: Mon, 27 Nov 1995 20:58:15
To: aprssig@tapr.org
Message-ID: <199511280404.WAA27174@sh1.ro.com>
Rendered body type: text/plain

I know this is going to get me some flames, but here it goes anyway. I wouldn't count on PacComm for anything anymore, at least i won't. I have bought several of their products and so have some friends of mine (At my suggestions) But I WILL NEVER BUY ANOTHER PACCOM AGAIN, AND I WILL NOT SUGGEST ANYONE ELSE DOES EITHER. If all you people remember about 6 month's ago i had problems interfacing my Megellan NAV-5000DX to a KPC3, Well after calling Kantronics and Magellan several times i never did get my GPS to work on a KPC3 (It won't work). Well after trying so many times i finally decided to give up, untill i received a message from GWYN at Paccom and they offered to trade me a PicoPacket for my KPC3 just to be nice and help me out (they said they realy didn't want the KPC3) but wanted to get me going with the standalone tracker using the Magellan. Well folks after many weeks went by i got excuses after excuses why i didn't receive my PicoPacket yet, The last of the messages asked my for my address cause it got lost. I send this to them, at that time i even made the statement to them if they felt that they had made a mistake that i would not feel bad at all if they backed out of the offer since that was the feeling i got since so much time had past, but they never had the the courtesy to even say no we cannot follow trough with our promise. So the result of all this is that you cannot depend on anything they say, it has now been aroud 6 month's and i have seen nothing resembling a PicoPacket. So take it for what it's worth but i will not ever recommend any Paccom product again for the simple reason that they must not be able to keep their word. THEY MADE THE OFFER I DIDN'T ASK FOR THE TRADE.

Bill KE4EER
ke4eer@ro.com

I bet you would have NO PROBLEMS GETTING PACCOMM or one of the other TNC MFRS to donate the equipment! But who has their foot in the door

556. Gift horses

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 27 Nov 1995 22:42:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951127223812.7550D-100000@greatlakes>
Rendered body type: text/plain

On Mon, 27 Nov 1995, William Nolle wrote:

> Well after calling Kantronics and Magellan several times i never did get my
> GPS to work on a KPC3 (It won't work). Well after trying so many times i
> finally decided to give up, untill i received a message from GWYN at Paccom
> and they offered to trade me a PicoPacket for my KPC3 just to be nice and
> help me out (they said they really didn't want the KPC3) but wanted to get me
> going with the standalone tracker using the Magellan. Well folks after many
> weeks went by i got excuses after excuses why i didn't receive my PicoPacket

Come on Bill, lighten up. If this isnt "looking a gift horse in the mouth!"

They are pretty busy, and handing out freebies is probably the first
thing to get lost in the cracks...

557. Re: [APRSSIG:4676] Olympic Tournch

From: rholbert@rcinet.com (Richard L. Holbert)
Date: Fri, 24 Nov 1995 20:41:09 -0500
To: aprssig@tapr.org
Message-ID: <199511280359.WAA16315@manny.rcinet.com>
Rendered body type: text/plain

Bob,

I'll check around in my company. There was some talk about the Atlanta
Olympics earlier in the summer.

>I got ZERO response from this posting. Maybe it didnt make it out on the
>net... Anyone have a foot in the door??

>

>----- Forwarded message -----

>

>Heard a rumor that HAM radio is NOT going to be used AT ALL this year for
>the cross country running of the Olympic Torch. The RUMOR says that
>someone teamed up with Radio Shack to use bazillions of CB's. BUT THAT
>on-air tests (without repeaters of course) are leaving the organiziers
>real worried about being able to communicate on CB... over the needed
>distances..

>

>TWO THINGS COME TO MIND!

>

>1) HAM RADIO needs to waltz in and save the day

>

>2) I cant imagine anything more FUN than putting a GPS/TNC on the
>OLYMPIC TOURNCH CHASE VEHICLE with the path of RELAY,WIDE,WIDE,WIDE!

>

> [Then waltz into your local TV station with your LAPTOP]
> [and show them what you can do! Dress well!, Shave.]

>

>If anyone can substantiate this rumor and can find someone in charge and
>suggest A GPS unit on the Olympic Tournch, I bet you would have NO
>PROBLEMS GETTING PACCOMM or one of the other TNC MFRS to donate the
>equipment! But who has their foot in the door?

>

>AND ATLANTA IS WIRED FOR APRS!

>

>

>

>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

>

>

>

rholbert@rcinet.com

558. Re: [APRSSIG:4671] Re: QST Patch Antenna

From: mwalker@interlog.com (Mike Walker)
Date: Mon, 27 Nov 95 23:43:37 EST
To: aprssig@tapr.org
Message-ID: <199511280443.XAA04500@gold.interlog.com>
Rendered body type: text/plain

Hi Gerry,

If what you say is correct (and I'm not denying it), then leave well enough

alone I guess? If this unit receives only 8 satellites, then the only time (with the current constellation) that you receive all 8 is when you get the satellites below 25 degrees.

So, to see if I understand this, my best mode of operation from a mobile who is sometimes in a tell urban environment is to look from about 25 degrees and up for the strongest signals? I managed to improve the low level signals by inserting a vertical component approximately 1/4 wave at the feed point.

This immediately helped, but, based on the above statement, might actually give me a signal with less accuracy? (would this be the reason I sometimes see "jogs" in my track perpendicular to my travel, or is this from the dialed in error?)

It sounds like you've done a lot more research on this than most. I did find that I did loose lock a little more often than when I had the external antenna stuck on top of the car at the end of a piece of RG-174.

Many thanks for the reply, as I am glad to understand more about it.

cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

559. Re: [APRSSIG:4671] Re: QST Patch Antenna

From: mwalker@interlog.com (Mike Walker)
Date: Mon, 27 Nov 95 23:46:17 EST
To: aprssig@tapr.org
Message-ID: <199511280446.XAA05027@gold.interlog.com>
Rendered body type: text/plain

To follow on (as I reread your note), I noticed that I was loosing Birds somewhere around 40 degrees, and I wanted to get them a bit lower. As a mobile, how low should I go?

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

560. DCI 146-4H Intermod B/P Filter

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Mon, 27 Nov 95 22:47:29 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511280439.WAA03373@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

FYI, for over a year now, I have tried to listen to the IL Wing Civil Air Patrol Chicago Area VHF Net. I was only able to copy about 15% of the transmissions because of pager, etc. noise breaking in and drowning out the weak signal. Same was true of the local ham club repeater. Even though it was a fairly strong transmitted signal, it still got overwhelmed by extraneous garbage.

Tonight, with the above mentioned bandpass filter, I was able to copy in excess of 95% of the CAP net (60+ miles away), whose xmissions don't even register on my LCD signal meter. And the local ham net came thru like gangbusters.

I guess I don't need 70 watts transmission power to HEAR well. Just a clean input. I can hit the local wide (16 mi away) with 2 watts.

--

J Barry Leonard HamRadio N9VJQ/EN510W
Subependymoma 1990
DeKalb IL
E-MAIL: jleonard@tbcnet.com

561. Re: [APRSSIG:4676] Olympic Tournch

From: n2czf@gate.net
Date: Mon, 27 Nov 1995 22:06:11 -0500
To: aprssig@tapr.org

Message-ID: <199511280306.WAA45524@tequesta.gate.net>
Rendered body type: text/plain

Not only Atlanta but I have heard that the route will bring it thru Southern Florida right in the middle of "APRS Country". I have not verified this information but if it is true we got to find out NOW. Some temporary digi's will be needed and A LOT of coordination for an area the size of ours to GUARANTEE coverage. If enough notice is given maybe some temporary stations can be put in place as in the ARMY-NAVY operations (probably not needed anymore with all the digi's up there now) a few years ago from MD to the NYC Skyline.

Anyone have access to any of the OFFICIAL information ???

I AM GAME!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

562. Re: Olympic Torch Run

From: rwf <rwf@mindspring.com>
Date: Tue, 28 Nov 1995 03:02:35 -0500
To: aprssig@tapr.org
Message-ID: <199511280802.DAA19206@borg.mindspring.com>
Rendered body type: text/plain

Hmmm--

I thought I replied to this already.

Your rumor about no HAM radio is just that. A rumor.

First: The commercial radio story in Atlanta

Motorola is the official Olympic radio sponsor. I was told that they had 5,000 or so radios to give
They are all promised, gone and have been for a LONG time.

There is basically no 800 Mhz analog trunking left in Atlanta. At least there will not be any by Olympic time.
It all went digital when Nextel/Dialcall/Onecomm paid big \$\$\$ to buy up all the 800 MHz and convert it to digital
cellular look alike, yes folks, We have 3 cellular carriers here. Only they call it digital trunking. But it still costs
30.00 a month and 35 cents a minute to talk on even the radio part of it.

Another option is the limited amount of available 900MHz analog trunking which Motorola
can't get to work worth a toot around here, We have these hills, you see...

Remember 220 MHz? A little used Ham band? Well how would you like to use 220-222 MHz analog trunking.
ACSB (Amplitude Compandered Side Band) We have many channels available in Atlanta. Only 50.00 per day per radio
with a commitment of either 1 or 3 months (I forget) How many would you like?

With a radio situation like this, you can darn well bet HAMS will be used. Just like we were used during the
Democratic National Convention. Even if it is only to help buses communicate.

After the Olympics were announced for Atlanta, A couple of the "old line" Ham clubs tried to get the jump
on each other by running to the Olympic Committee and trying to get designated "The Official Olympic Ham
Radio Club" and whatnot. Because of this, the ACOG (Atlanta Committee for the Olympic Games) told the Hams to take a hike.

They have had a change of heart and now want Ham help. So badly that the minimum time you have to promise has been
waived for Hams. Other volunteers have to do a lot of Pre-Olympic public service to even be considered, and even then
they have to give THREE WEEKS!

About the torch- It is not one torch, but many torchES. They switch it with each runner and the runner gets to keep his.
The tracker would have to be in a vehicle or something like that nearby. I don't know the route of have a contact with
the torch run, but could maybe ask around.

Disclaimer:

Some of this info could have changed between the time I learned it and I told y'all.

Ralph
N4NEQ
Atlanta

t 07:51 PM 11/27/95 -0600, you wrote:
>I got ZERO response from this posting. Maybe it didnt make it out on the
>net... Anyone have a foot in the door??
>
>----- Forwarded message -----
>
>Heard a rumor that HAM radio is NOT going to be used AT ALL this year for
>the cross country running of the Olympic Torch. The RUMOR says that
>someone teamed up with Radio Shack to use bazillions of CB's. BUT THAT
>on-air tests (without repeaters of course) are leaving the organizers
>real worried about being able to communicate on CB... over the needed
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>OLYMPIC TOURCH CHASE VEHICLE with the path of RELAY,WIDE,WIDE,WIDE!
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> [Then waltz into your local TV station with your LAPTOP]
> [and show them what you can do! Dress well!, Shave.]
>
>If anyone can substantiate this rumor and can find someone in charge and
>suggest A GPS unit on the Olympic Tournch, I bet you would have NO
>PROBLEMS GETTING PACCOMM or one of the other TNC MFRS to donate the
>equipment! But who has their foot in the door?
>
>AND ATLANTA IS WIRED FOR APRS!
>
>
>
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
>
>
>
>

563. Re: [APRSSIG:4677] Re:Paccomm

From: barrettd@crpl.cedar-rapids.lib.ia.us
Date: Tue, 28 Nov 1995 05:16:54 -0600
To: aprssig@tapr.org
Message-ID: <199511281116.FAA00556@sys1.tapr.org>
Rendered body type: text/plain

>But I WILL NEVER BUY ANOTHER PACCOM AGAIN, AND I WILL NOT
>SUGGEST ANYONE ELSE DOES EITHER. If all you people remember about
Bill KE4EER
>ke4eer@ro.com

No flames from me; though I love my tiny-2 so much I ordered two
pico paket TNC's just the other day. I'm tracking buses in order to compare
deisel vs westinghouses electric buses.

barrett

564. RE: [APRSSIG:4684] Re: Olympic Torch Run

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Tue, 28 Nov 1995 8:17:17 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <951128081717.20601ef6@exame2.dseg.ti.com>
Rendered body type: text/plain

Don't know what the official route for all the Olympic activity is, but if
it comes anywhere near Dallas I'd be happy to help with it. I coordinated
much of the public service work for the Dallas Amateur Radio Club for many
years, and this looks like a good public service. Don't know the best way to
proceed at this time, however. Looks like we should have a central
coordinating point for the ham activities. Is anyone wearing that hat now?

Regards, Claude Head
KSDTN
13316 Spring Grove
Dallas, TX 75240
(214) 386-8966 home
(214) 995-5040 office
(214) 995-2231 FAX

chead@exame2.dseg.ti.com

565. re: [APRSSIG:4672] Re: I'm missing something?

From: "John Vaughn" <jvaughn@TTIADMIN.tamu.edu>
Date: Tue, 28 Nov 95 8:24:54 CST
To: <aprssig@tapr.org>
Message-ID: <vines.ITY7+uklikb@TTIADMIN.tamu.edu>
Rendered body type: text/plain

Hi, Gerry. Just wondering who "we" is that does maps for TxDOT?
And, could I get a look at some? Anywhere near Houston?

-John / KC5FEV

566. Re: [APRSSIG:4685] Re:Paccomm

From: ke4eer@ro.com (William Nolle)
Date: Tue, 28 Nov 1995 08:52:42
To: aprssig@tapr.org
Message-ID: <199511281559.JAA12559@sh1.ro.com>
Rendered body type: text/plain

Well great Barret, i have several, a Handy-Packet and a Tiny-2, it's not so much the equipment but Honor. I didn't state in the posting that i was told give me your address and i will put it in the mail Monday (That was 5 or 6 weeks ago) And Bob i'm not looking a gift horse in the mouth, It was NOT a gift in the first place!, IT'S CALLED HONOR.

Sounds like a great project Barret, tracking busses Hummm.

Bill KE4EER
ke4eer@ro.com

>
>>But I WILL NEVER BUY ANOTHER PACCOM AGAIN, AND I WILL NOT
>>SUGGEST ANYONE ELSE DOES EITHER. If all you people remember about
>Bill KE4EER
>>ke4eer@ro.com
>
> No flames from me; though I love my tiny-2 so much I ordered two
>pico paket TNC's just the other day. I'm tracking buses in order to compare
>deisel vs westinghouses electric buses.
>
>barrett
>

567. Re: [APRSSIG:4684] Re: Olympic Torch Run

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 28 Nov 1995 09:58:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951128094257.11438B-100000@greatlakes>
Rendered body type: text/plain

On Tue, 28 Nov 1995, rwf wrote:

> About the torch- It is not one torch, but many torchES. They switch it
> with each runner and the runner gets to keep his.
> The tracker would have to be in a vehicle or something like that nearby. I

APR REPLY: YES THE CHASE VEHICLE! In years past, it was a winnebago which went the entire route across the country! I believe the TELEphone COmpany "Pioneers" provided it, or at least manned it. All we gotta do is get a GPS unit ON IT. Everyone keep looking. Some HAM somewhere has got to know where that CHASE vehicle is. Put a tracker on it, and then FORGET about having to round up volunteers. All you gotta do is plop down a PC anywhere you want to track it.

568. Re: [APRSSIG:4688] Re:Paccomm

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Tue, 28 Nov 1995 10:47:31 +0000
To: aprssig@tapr.org

Message-ID: <9511281540.AA05598@oriole.ustc.vlsi.COM>

Rendered body type: text/plain

Several months ago when I inadvertently offended Bill(evidently easy to do) He replied with a comment that the On/Off switch was put on my machine in case I did not want to put up with his ranting. Well there is another option. A little work on my mailer and I was able to automatically trash all incoming mail form KE4EER.
Thanks for the suggestion Bill

>Well great Barret, i have several, a Handy-Packet and a Tiny-2, it's
>not so much the equipment but Honor. I didn't state in the posting that i was
>told give me your address and i will put it in the mail Monday (That was 5 or
>6 weeks ago) And Bob i'm not looking a gift horse in the mouth, It was NOT
>a gift in the first place!, IT'S CALLED HONOR.

>Sounds like a great project Barret, tracking busses Hummm.

>Bill KE4EER
>ke4eer@ro.com

>-----

>>

>>>But I WILL NEVER BUY ANOTHER PACCOM AGAIN, AND I WILL NOT
>>>SUGGEST ANYONE ELSE DOES EITHER. If all you people remember about

>>Bill KE4EER

>>>ke4eer@ro.com

>>

>> No flames from me; though I love my tiny-2 so much I ordered two
>>pico paket TNC's just the other day. I'm tracking buses in order to compare
>>deisel vs westinghouses electric buses.

>>

>>barrett

>>

| | |
|--------------------------------|---|
| Bob Baltz | * |
| Chesapeake Region Sales | * |
| Ph:(410) 987- 8777 | * |
| Fax: (410) 987-4489 | * |
| E-mail bob.baltz@ustc.vlsi.com | * |

569. GPS simultaneous parallel tracking

From: Jim DeLoach <jim.deloach@cellnet.com>

Date: Tue, 28 Nov 1995 09:12:00 -0800

To: aprssig@tapr.org

Cc: 102256.1216@compuserve.com

Message-ID: <199511281715.JAA18606@cellmail.cellnet.com>

Rendered body type: text/plain

My understanding is that simultaneous parallel tracking becomes greatly usefull when velocity is greater. I know for a fact that my Garmin GPS-75 fell apart (lost lock) at about 80 miles/hour (cruzing down the runway in my boss' aircraft), but hangs in there for me going about 65 down freeways. Since my application is for stationary & low-speed use, I don't really care.

However, I would really like to quantify the additional error from "multi-tracking" GPS receivers (like the Garmin's) for stationary or low-speed use. Has anyone done this?

Cheers.

Jim, WU0I

At 07:58 PM 11/21/95 -0600, you wrote:

>Does anyone have an opinion on how much better a multi-channel (i.e.
>simultaneous parallel tracking) GPS receiver such as the Eagle AcuNav is than a
>single-channel multi-tracking (i.e. unit switches from one sat. to the next but
>only hears one at a time) unit like the Garmin 45?

>

>On a related note, does anyone have a better suggestion for a GPS receiver than
>the Eagle or the Garmin?

>

>Doug, KM4HY
>102256.1216@compuserve.com

>

>

>

570. Re: [APRSSIG:4690] Re:Paccom

From: ke4eer@ro.com (William Nolle)
Date: Tue, 28 Nov 1995 11:57:02
To: aprssig@tapr.org
Message-ID: <199511281903.NAA20024@sh1.ro.com>
Rendered body type: text/plain

Well no thnaks needed because it evidently didn't work to well because you did get the message i posted otherwise you would not have taken your valuable time to send me a flame about it, So check again maybe you can get it to work this time and if you need help just ask.

Bill KE4EER

>Several months ago when I inadvertently offended Bill(evidently easy to >do) He replied with a comment that the On/Off switch was put on my machine >in case I did not want to put up with his ranting. Well there is another >option. A little work on my mailer and I was able to automatically trash >all incoming mail form KE4EER.
>Thanks for the suggestion Bill
>

571. Did I get disconnected???

From: "John G. McMahon" <jgm@phoenix.phoenix.net>
Date: Tue, 28 Nov 1995 12:20:55 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951128121908.2019C-100000@phoenix.phoenix.net>
Rendered body type: text/plain

Did I get disconnected??? I haven't gotten a message in about a week.

572. ZIP 75240 K5DTN

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Tue, 28 Nov 1995 12:23:40 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <951128122340.206024cf@exame2.dseg.ti.com>
Rendered body type: text/plain

Hi, guys and gals (or OMs and XYLs).

I spoke to Bob briefly this morning. He is ready to distribute the ZIP code database and I volunteered to collect the data for him.

In order to see the geographic coverage of the APRSSIG, I will build an APRS backup file of everyone on the SIG for distribution. With this file, we can see who all is out there listening. Please send me a message with your ZIP code and call sign. That's all I need. And, to make it easy for me to copy the codes from my SUMMARY screen, please put the words "ZIP xxxxx CCCCCC" as the SUBJECT of your message, where xxxxx is your ZIP code and CCCCCC is your callsign.

The subject line of this message is an example of the preferred format.

I will build the database from these ZIPS and will NOT read the message. PLEASE send your ZIP message to me PERSONALLY, and NOT to the SIG. Send to:

chead@exame2.dseg.ti.com

As soon as I get these ZIPS, then we will have a backup file for everyone to see where we all are.

Regards, Claude Head
K5DTN
13316 Spring Grove
Dallas, TX 75240

chead@exame2.dseg.ti.com

(214)386-8966 home
(214)995-5040 office
(214)995-2231 FAX

573. Re: [APRSSIG:4691] GPS simultaneous parallel tracking

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 28 Nov 1995 14:15:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951128141412.19027B-100000@greatlakes>
Rendered body type: text/plain

On Tue, 28 Nov 1995, Jim DeLoach wrote:

> usefull when velocity is greater. I know for a fact that my Garmin GPS-75
> fell apart (lost lock) at about 80 miles/hour (cruizing down the runway in my
> boss' aircraft), but hangs in there for me going about 65 down freeways.

RTFM: All Garmins will QUIT when you approach 90 knots. They want you
to buy their more expensive version for Aircraft.

574. Re: [APRSSIG:4678] Gift horses

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Tue, 28 Nov 1995 15:07:42 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511282207.PAA20417@usr5.primenet.com>
Rendered body type: text/plain

At 09:49 PM 11/27/95 -0600, Bob Bruninga wrote:

>On Mon, 27 Nov 1995, William Nolle wrote:

>
>> Well after calling Kantronics and Magellan several times i never did get my
>> GPS to work on a KPC3 (It won't work). Well after trying so many times i
>> finally decided to give up, untill i received a message from GWYN at Paccom
>> and they offered to trade me a PicoPacket for my KPC3 just to be nice and
>> help me out (they said they really didn't want the KPC3) but wanted to get me
>> going with the standalone tracker using the Magellan. Well folks after many
>> weeks went by i got excuses after excuses why i didn't receive my PicoPacket
>

Personal and Corporate Flames aside, I don't understand why someone couldn't
get their KPC-3 (with the GPS firmware) to get up and running within 15 or
20 minutes.

I upgraded the KPC-3 firmware, myself, as well as adding a bigger RAM chip
about the same time I interfaced my Magellan Trailblazer XL to the TNC. All
went smoothly, and to my surprise, minutes later was seeing my raw GPS data
being decoded by APRS. Equipment used: KPC-3 TNC with version 6.0 firmware,
Magellan Trailblazer XL with version 1.0 ROM, and a Yaesu FT-51R HT. KPC-3
set to 4800 Baud, intface GPS. I followed the wiring diagrams supplied by
Magellan with their data cable and by Kantronic's user guide update. Not a
problem.

As an interesting aside, the receiving side of this setup is a 1985 AEA TAPR-2
clone (one of the originals!) and an equally ancient Icom mobile unit (I've
yet to get APRS to work in the transmit mode with this TNC, but it receives
fine).

Perhaps I can be of some assistance with people having problems with KPC-3's
and Magellans.

I cobbled the KPC-3, Magellan, and FT-51 in a small box, stuck it in my car,
and roared around the streets of Phoenix, much to the delight of fellow
APRS'ers. Tracking was dead on, and the little car icon never strayed far
from where actual streets are denoted on the Phoenix APRS map. In fact,
most of the time the car icon straddles the lines of the streets. I
couldn't ask for better results. BTW, in Phoenix we use a digital mode
repeater for much of our APRS work on 147.1(+) (although we are trying to
move to 145.79). This repeater sits on the White Tank Mountains west of
Phoenix (at about
4000 ft) and provides excellent coverage through most of the Phoenix Metro
area. I demoed this system to John, KC7JRA, at his house, and (via autopatch)
he clearly noted that I had driven from his house, east on Thunderbird Ave.,
north on I-17 to Bell Road, where I looped back around, headed south on I-17,
and was sitting somewhat north of MetroCenter, probably at the Barnes & Noble
bookstore (which is where is was). The system works, and works flawlessly.

I'm still trying to get equipment and a site to set up a dedicated 145.79 APRS
node here in Phoenix. Any help would be greatly appreciated. I recently
"lost" my digi site to our club's 2m voice repeater [145.43 (-) no PL] on
Phoenix General Hospital (I-17 and Beardsley). But it was a "marginal" site
anyway...

73,

Mark Fellhauer KC7BX5
ThunderBird ARC Packet Coordinator
sparkfel@primenet.com

575. ZIP 93555 KC6UTH

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Tue, 28 Nov 1995 14:46:41 -0800
To: aprssig@tapr.org
Message-ID: <v01520d06ace0d109ffa7@[129.131.31.10]>
Rendered body type: text/plain
[Empty message body]

576. Re: [APRSSIG:4680] Re: QST Patch Antenna

From: n2czf@gate.net
Date: Tue, 28 Nov 1995 18:48:11 -0500
To: aprssig@tapr.org
Message-ID: <199511282348.SAA32798@tequesta.gate.net>
Rendered body type: text/plain

If I read Mike's last message correctly I guess he is using RG-174 for coax. I do not want to put my foot in my mouth but we use RG-174 at the shop with a few turns in it as an attenuator on VHF and UHF, not even SHF. I have often seen small cables on GPS antennas commercially but always assumed it was a amplified antenna, and that the cable was a strange breed that did not show as much loss as true RG-174.

I have built one of the patch antennas myself but have waited to connect it to coax for several reasons.

- 1) I am using THICK aluminum (eg: as in boom bracket material for a A3!) and this will require a LOT of heat with some tricks to solder coax to it.
- 2) I have avoided using copper tape as described since I can't find it locally
- 3) I have tried a special conducting marker used in PC Board Repair but the heat required melts the conducting ink/glue where it does not do the job.
- 4) I want to keep the feedpoint details as close to original as possible and am still thinking how/what to use to accomplish that.
- 5) Waiting for a scrap piece of teflon 800 MHz coax to be available so I can use that. Not used often at our shop, just in special projects and I can't cut it off of a new NMO mount for my project (too expensive of a mount for that!)

Co-worker built one of these and used nuts/bolts with ring terminals to connect the coax and it works. It just works, about the same as a stock integrated GPS antenna. After all the work having a friend machine my antenna plates on a mill with GRADE 1 aluminum I can't see making it a mess by trial and error and have it work just as well as my interior mounted antenna.

Any other ideas other than the tape, conductive pen, or bolts ? Looking for pop rivits (sp?) that are made of copper and leave a hole in the center. No luck yet, just copper rivits that are solid.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

577. Re: [APRSSIG:4691] GPS simultaneous parallel tracking

From: n2czf@gate.net
Date: Tue, 28 Nov 1995 18:57:58 -0500
To: aprssig@tapr.org
Message-ID: <199511282357.SAA26535@tequesta.gate.net>
Rendered body type: text/plain

All Garmin GPS units unless desined for AERO use will shut down at about 90mph! I was the first one who found out the hard way! Planned a special trip with another ham firend who is a pilot, made some special outside antennas, mounted them under the wing for 2M and left for FL's first AERO APRS demo. Every time we took off the GPS would lose all data and keep searching, every time we landed and slowed down it worked! I thought it was some sort of electrical noise in the GPS band created bu the aircraft's engine at high RPM! A few days later I was told by a local ham and then GARMIN that indeed it will stop operations. When I asked why ?? they bluntly replied so that we do not kill our same model designed for the Aeronautical market! I made a few comments and and quickly hung up the phone, for someone to actually go to the effort of having a product NOT DO something is insane and I think bad reflection on the company in general.

My GPS-50 works fine but I am planning on not buying a Garmin in the future do to the above actions by Garmin. I don't do much flying anymore but just the idea... I will look at Magellan and the others from now on.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

578. Interim report on ZIP code database

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Tue, 28 Nov 1995 18:09:35 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <951128180935.206024cf@exame2.dseg.ti.com>
Rendered body type: text/plain

Interim comments on ZIP code database:

Thanks to those who have responded so far - 49 as of the writing of this message.

PLEASE make things simple by following exactly the conventions suggested in the original request for ZIP code data:

1. Send information to me, NOT to aprssig.
E-mail address:
"chead@exame2.dseg.ti.com"
2. Put the zipcode/call information in the message SUBJECT line EXACTLY as follows:
"ZIP xxxxx CCCCCC",

not buried somewhere in the body of the message. Here "xxxxx" is your zip code and "CCCCCC" is your callsign. The preamble word "ZIP" helps to find the data.
3. If you are reporting for several hams and/or locations, please send a separate message for each one.
4. If you must put something in the body of the message to make your mail server happy, that's fine, but I'd really like to be able to get all the basic information from the SUBJECT line.
5. This allows a simple program to pull the information from the messages and format it for further processing. It gets a lot more complicated if I have to search through the whole message to find the information in an unknown format! I hope to see many hundreds (maybe thousands?) of hams report in for the APRS zipcode database and automatic processing is a lot easier than the manual search and retrieve approach.

Thanks for your response so far. Keep the data coming!!

73, Claude Head
K5DTN
13316 Spring Grove
Dallas, TX 75240

chead@exame2.dseg.ti.com

(214)386-8966 home
(214)995-5040 office
(214)995-2231 FAX

579. Re: [APRSSIG:4697]

From: ke4eer@ro.com (William Nolle)
Date: Tue, 28 Nov 1995 18:07:27
To: aprssig@tapr.org
Message-ID: <199511290114.TAA01938@sh1.ro.com>
Rendered body type: text/plain

Well this is not a Magellan trailblazer, it's a Nav-5000dx totally different ballgame believe me. A friend of mine has a Magellan Maredian it was a snap to hook it to a KPC-3, but all efforts failed that where suggested either by those on the Sig or Kantronic or Magellan!. I have to say i did get it working without any hassle on my Paccomm Tiny-2, by the way the KPC-3 had the latest firmware. And yes the Magellan had the correct output and voltage level. It would send out 1 and only 1 GPS beacon then quit updating even though the Magellan kept sending data. Anyway this is all water under the bridge. Instead of 15 or 20 minutes i spend 15 or 20 days on it hi.

Bill KE4EER
wnolle@ro.com

> I don't understand why someone couldn't
> get their KPC-3 (with the GPS firmware) to get up and running within 15 or
> 20 minutes.

>
>
>73,
>
>Mark Fellhauer KC7BXS
>ThunderBird ARC Packet Coordinator
>sparkfel@primenet.com
>
>

580. Re: [APRSSIG:4657] APRS growth

From: daleh@skypoint.com (Dale A. Hagert)
Date: Tue, 28 Nov 1995 18:29:04 -0600
To: aprssig@tapr.org
Message-ID: <m0tKaQp-0005LLC@skypoint.com>
Rendered body type: text/plain

>I got to spend some time over TNXgiving to run a ZIP code plot against
>my files, and came up with the following areas that showed up with
>at least a handful of registered users:
>
>New England New Jersey
>Maryland Northern VA
>Western Ohio Cleveland
>Detroit Chicago
>Atlanta Huntsville
>St Louis Kansas City
>Tampa Miami area
>Houston Dallas
>Phoenix Los Angeles
>San Diego San Francisco area
>Iowa
>
>There are a few users in some other big cities, but not a critical mass,
>I guess, and most rural areas are bare... In general, there were no
>surprises.
>
>My purpose for doing this was to see whether there were any areas of
>significant activity that did NOT have at least a 32 mile map of the
>area... None seemed obvious to me... But I did do a 32 mile map
>of NE Montana, since I got my first user up there...
>
>
>DE WB4APR
>
Bob: I plan to register the program, but am somewhat confused by all the
options listed. I would like to suggest that you figure out a price with
all options invoked, like \$49. or something like that. I think you would
sell more packages. Also, it would save the hassel of all the additions
later. Not complaining mind you, just thinking out-loud. Thanks Dale NM0H
Dale A. Hagert NM0H
3881 Serpentine Circle
Eagan, MN 55122
612-688-7155

581. Re: QST Patch Antenna

From: Jim DeLoach <jim.deloach@cellnet.com>
Date: Tue, 28 Nov 1995 16:54:46 -0800
To: aprssig@tapr.org
Message-ID: <199511290058.QAA01990@cellmail.cellnet.com>
Rendered body type: text/plain

How about brass, as the author suggested, to avoid the soldering problem?
Has anybody tried that, and were there any special problems?

I have not yet attempted the project and am worried about maintaining the
spatial tolerances. Are there any suggestions out there about how to cut
the plates with only basic garage tools?

73s
Jim, WU0I

582. Re: [APRSSIG:4689] Re: Olympic Torch Run

From: rwf <rwf@mindspring.com>
Date: Tue, 28 Nov 1995 20:21:03 -0500
To: aprssig@tapr.org
Message-ID: <199511290121.UAA02205@borg.mindspring.com>
Rendered body type: text/plain

I'll give a call to the Pioneer's local ham group here in Atlanta.
They sponsor one of the ATV repeaters in our ATV network.

At 09:03 AM 11/28/95 -0600, you wrote:
>On Tue, 28 Nov 1995, rwf wrote:
>
>> About the torch- It is not one torch, but many torchES. They switch it
>> with each runner and the runner gets to keep his.
>> The tracker would have to be in a vehicle or something like that nearby. I
>
>APR REPLY: YES THE CHASE VEHICLE! In years past, it was a winnebago which
>went the entire route across the country! I believe the TELephone COmpany
>"Pioneers" provided it, or at least manned it. All we gotta do is get a GPS
>unit ON IT. Everyone keep loooking. Some HAM somewhere has got to know
>where that CHASE vehicle is. Put a tracker on it, and then FORGET about
>having to round up volunteers. All you gotta do is plop down a PC anywhere
>you want to trakc it.
>
>

583. Re: [APRSSIG:4691] GPS simultaneous parallel tracking

From: rwf <rwf@mindspring.com>
Date: Tue, 28 Nov 1995 20:21:04 -0500
To: aprssig@tapr.org
Message-ID: <199511290121.UAA02210@borg.mindspring.com>
Rendered body type: text/plain

My Motorola PVT 6 does great at flight speeds of 200 mph or so
My Garmin 45 did fine too, on the runway, and in flight below the 99 kt
speed limit.
Sounds like you had a poor signal or satellite geometry in that plane.

Ralph

At 11:25 AM 11/28/95 -0600, you wrote:
>My understanding is that simultaneous parallel tracking becomes greatly
>usefull when velocity is greater. I know for a fact that my Garmin GPS-75
>fell apart (lost lock) at about 80 miles/hour (cruzing down the runway in my
>boss' aircraft), but hangs in there for me going about 65 down freeways.
>Since my application is for stationary & low-speed use, I don't really care.
>
>However, I would really like to quantify the additional error from
>"multi-tracking" GPS receivers (like the Garmin's) for stationary or
>low-speed use. Has anyone done this?
>
>Cheers.
>Jim, WU0I
>
>
>
>At 07:58 PM 11/21/95 -0600, you wrote:
>>Does anyone have an opinion on how much better a multi-channel (i.e.
>>simultaneous parallel tracking) GPS receiver such as the Eagle AcuNav is
>>than a
>>single-channel multi-tracking (i.e. unit switches from one sat. to the
>>next but
>>only hears one at a time) unit like the Garmin 45?
>>
>>On a related note, does anyone have a better suggestion for a GPS receiver
>>than
>>the Eagle or the Garmin?
>>
>>Doug, KM4HY
>>102256.1216@compuserve.com
>>
>>
>>
>
>

584. Re: [APRSSIG:4700] Re: GPS simultaneous parallel tracking

From: jleonard@tbcnet.com
Date: Tue, 28 Nov 1995 19:46:34 -0600
To: aprssig@tapr.org
Message-ID: <199511290146.TAA13955@tbc2.tbcnet.com>
Rendered body type: text/plain

, for someone to actually go to the effort of having a product NOT DO
>something is insane and I think bad reflection on the company in general.
>
>My GPS-50 works fine but I am planning on not buying a Garmin in the future do
>to the above actions by Garmin. I don't do much flying anymore but just the
>idea... I will look at Magellan and the others from now on.
>

Unless I'm mistaken, any gear possibly used for air navigation has to be FAA
type accepted, and the manufacturer has to jump through all kinds of hoops to
get it approved.

I don't think they are just trying to sell a more expensive piece of gear,
it's just that the extra capabilities that a GPS has with air navigation
capabilities dictates a higher price.

If Garmin had their way, they'd probably sell all their receivers at a fair
price. Unfortunately, if it can be used in an airplane, the government and
lawyers make them jack the cost up.

Sorry!
J Barry Leonard HamRadio N9VJQ/EN510W
Subependymoma 1990
DeKalb IL
E-MAIL: jleonard@tbcnet.com

585. Olympic Torch Run Followup

From: rwf <rwf@mindspring.com>
Date: Tue, 28 Nov 1995 21:27:28 -0500
To: aprssig@tapr.org
Message-ID: <199511290227.VAA17234@borg.mindspring.com>
Rendered body type: text/plain

I checked with the Pioneers. They did the torch run in 1984 because AT&T
sponsored the run. The 1996 Olympic torch run is being sponsored by my
Employer, Coca-Cola.
I didn't even know that !! I will check with my contacts on getting a
tracker on the 'bago.

The guy from the Pioneers did tell me that he also heard there were going to
be no Hams helping with the torch run either. I'll see about that too.

Ralph
N4NEQ

586. APRS MIM module

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 28 Nov 1995 21:37:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951128212802.24186A-100000@greatlakes>
Rendered body type: text/plain

Well the 2nd generation MIM module prototype is now on the air. This is
a single chip micro about the size of a matchbox that is basically the
transmit side of a TNC. It has the same features as described in the
APRS\README\TELEMETRY.txt file but with a few more features:

- 5 analog inputs
- 8 digital bit inputs
- GPS NMEA input

- it outputs ax.25 packets (audio)
 - BEACON packet
 - APRS POSIT packet
 - TELEMETRY packet
 - CW-ID if needed

This one can be configured via a serial port in the field and it has a
NOVRAM memory for config.

DO NOT BOTHER US WITH QUESTIONS ABOUT AVAILABILITY OR ANYTHING ELSE. WE
WILL ANNOUNCE ANY developments as soon as we figure it all out. Gotta

get some boards made and debugged, docs and stuff... You will hear about it here as soon as we know!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

587. Re: ZIP 75240 K5DTN

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Tue, 28 Nov 1995 22:19:34 -0600
To: aprssig@tapr.org, Claude 995-5040 pager 4541 <CHEAD@exam2.dseg.ti.com>
Message-ID: <9511282219.AA34292@oscar.tbr.state.tn.us>
Rendered body type: text/plain
ZIP 37076 KQ4TV

588. E.Coast 4 alias plan

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 28 Nov 1995 23:45:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951128230319.24410B-100000@greatlakes>
Rendered body type: text/plain

Here is my proposal for using 4 aliases along the eastern Seaboard.
SInce this is a straight line of digipeaters, it will permit stations to digipeat out 5 hops in both directions without DUPES!

DIGIS: BWB? TFZ HDL APR1 APR11 IPH15 HOB15 JNF4 RHN15 GTT15 MNS
ALIAS1: R R R R R R R R R R R
ALIAS2: W W W W W W W W W W W
ALIAS3: NET1 NET2 NET3 NET4 NET1 NET2 NET3 NET4 NET1 NET2 NET3
ALIAS4: LNK1 LNK2 LNK3 LNK4 LNK5 LNK6 LNK1 LNK2 LNK3 LNK4 LNK5

Notice that the NET aliases repeat every 4 digis and the LNK aliases repeat every 6 digis. To see how this works, imagine you are in the vicinity of IPH15 digipeater. If you transmit via R,W,NET3,LNK3,NET2 then your packets would go all the way out to GTT in Connecticut and down south to TFZ, WITHOUT A SINGLE DUPE!

The user could even add a WIDE at the end and only have one dupe for even greater coverage!

Now a similar pattern emerges for the digis, They dont need the first RELAY, so the IPH15 digi would beacon its posit via W,NET3,LNK3,NET2,W

The newest PacComm Handipkts can have 4 aliases. With proper planning you can really take advantage of them!

For the EAST coast net, this is the plan, so if you are near one of these machines, pass this message along to the SYSOP. This is not a directive, but a far ranging plan. Think about it in your future upgrades....

PS: There is a plan for a digi in East Central PA on the mountains, (at Temple Univ) so this should be a BIG boon for us. But it is also our first major digi that is NOT in the linear line of the existing net. Once we see what all it hears, it will be a challenge to figure out how to use its aliases...

589. [APRSSIG:4697] Re: Gift horses

From: n2czf@gate.net
Date: Tue, 28 Nov 1995 18:00:52 -0500
To: aprssig@tapr.org
Message-ID: <199511282300.SAA56115@tequesta.gate.net>
Rendered body type: text/plain

>>BTW, in Phoenix we use a digital mode
>>repeater for much of our APRS work on 147.1(+) (although we are trying to
>>move to 145.79). This repeater sits on the White Tank Mountains west of
>>Phoenix (at about
>>4000 ft) and provides excellent coverage through most of the Phoenix Metro
>>area.

I would like to hear from others that run similiar digital repeaters either on VHF or UHF. I have recently placed a UHF repeater on the air and would like to try my hand at one of these. I need more first hand information on the "Regeneration Boards", exactly what they accomplish and why. Won't a plain ol' TNC do the same thing at the repeater ??

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

590. RE: [APRSSIG:4669] Re: APRS VHF DX

From: jaykq4ms@nando.net
Date: Wed, 29 Nov 95 03:39:52 EST
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.951129034510.jaykq4ms@>
Rendered body type: text/plain

Hi group. Name here is Jay and I just wanted to throw in my 2 cents about I-95 coverage. I hope to have a APRS Digi on line in the next few months located about 15 miles East of Raleigh, NC. Actually, it'll be at a wide spot in the road called Lizzard Lick, NC. Should have pretty good coverage from about Wilson, NC to Smithfield, NC. Also hope to like up with the APRS guys west of Raleigh, around Greensboro/Burlington. Will keep you up to date.
Jay KQ4MS in wonderful Raleighwood!!

E-mail: jaykq4ms
Date: 09/24/95
Time: 02:25:03

This message was sent by Chameleon

591. Re: [APRSSIG:4669] Re: APRS VHF DX

From: Cap Pennell <cap@cruzio.com>
Date: Tue, 28 Nov 95 22:44:09 PST
To: aprssig@tapr.org
Message-ID: <9511282244.aa10877@inside.cruzio.com>
Rendered body type: text/plain

n2czf@gate.net writes:
> Anyone else have large coverage areas that you want to fill everyone in about ??

Greater California. Torrance(KJ6ZJ) to Chico(KN6JS-3). Approximately 500 miles.
145.010Mhz VHF!
Your mobile has to be on the right side of the mountain though. 73. Cap

--
+-----+
| Cap Pennell email: cap@cruzio.com Lat/Long:3658.92N/12200.88W
| Santa Cruz, CA packet radio: ke6afe@kg6ee.#cenca.ca.usa.noam
+-----+

592. Re: [APRSSIG:4703] Re: APRS growth

From: daleh@skypoint.com (Dale A. Hagert)
Date: Wed, 29 Nov 1995 05:38:30 -0600
To: aprssig@tapr.org
Message-ID: <m0tKksh-0004xpC@skypoint.com>
Rendered body type: text/plain

>>I got to spend some time over TNXgiving to run a ZIP code plot against
>>my files, and came up with the following areas that showed up with
>>at least a handful of registered users:
>>
>>New England New Jersey
>>Maryland Northern VA
>>Western Ohio Cleveland
>>Detroit Chicago
>>Atlanta Huntsville
>>St Louis Kansas City
>>Tampa Miami area
>>Houston Dallas
>>Phoenix Los Angeles
>>San Diego San Francisco area
>>Iowa
>>
>>There are a few users in some other big cities, but not a critical mass,
>>I guess, and most rural areas are bare... In general, there were no
>>surprises.
>>
>>My purpose for doing this was to see whether there were any areas of
>>significant activity that did NOT have at least a 32 mile map of the
>>area... None seemed obvious to me... But I did do a 32 mile map

>>of NE Montana, since I got my first user up there...
>>
>>
>>DE WB4APR
>>
Bob: I plan to register the program. I would like to suggest that you figure out a price with >all options invoked, like \$49. or something like that. I think you would sell more packages. Also, it would save the hassel of all the additions later. Not complaining mind you, just thinking out-loud. Thanks Dale NM0H
Dale A. Hagert NM0H
3881 Serpentine Circle
Eagan, MN 55122
612-688-7155
Dale A. Hagert NM0H
3881 Serpentine Circle
Eagan, MN 55122
612-688-7155

593. Re: [APRSSIG:4699] Re: QST Patch Antenna

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 29 Nov 95 08:17:59 EST
To: aprssig@tapr.org
Message-ID: <199511291318.IAA21787@gold.interlog.com>
Rendered body type: text/plain

On Tue, 28 Nov 1995 18:08:08 -0600 (CST) you wrote:

>If I read Mike's last message correctly I guess he is using RG-174 for coax. Sorry for the confusion, in one setup, I use about 6 feet of RG-174 with BNC connectors on both ends and I get good results with the Stock GPS-45 antenna up on the roof of the car. For my patch antenna, I use 8 feet of RG-58 with 95% braid

>1) I am using THICK aluminum (eg: as in boom bracket material for a A3!) and >this will require a LOT of heat with some tricks to solder coax to it

I used the cheapest tin I could find at the hardware store. 2x1ft for \$2

>2) I have avoided using copper tape as described since I can't find it locally

Didn't use it...I soldered directly

>3) I have tried a special conducting marker used in PC Board Repair but the heat >required melts the conducting ink/glue where it does not do the job

I used a 100w Iron and used steel wool saturated with oil to clean the tin. You then solder through the oil...it works.

>4) I want to keep the feedpoint details as close to original as possible and am >still thinking how/what to use to accomplish that
I cut the tin with tin snips after scripping the dimensions

I used nylon screws and made spacers for 5m out of nylon.

I get signals that exceed the top of the graph if they are in the inner circle on the display.

cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

594. Re: [APRSSIG:4704] Re: QST Patch Antenna

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 29 Nov 95 08:28:03 EST
To: aprssig@tapr.org
Message-ID: <199511291328.IAA22811@gold.interlog.com>
Rendered body type: text/plain

On Tue, 28 Nov 1995 19:11:57 -0600 (CST) you wrote:

>How about brass, as the author suggested, to avoid the soldering problem?
>Has anybody tried that, and were there any special problems?

Hi Jim,

See my previous note about soldering with Oil. Tin oxidizes so quickly, that you use oil when you clean it. This way you can solder through it and it does work. You do need a lot of heat >100W

>
>I have not yet attempted the project and am worried about maintaining the
>spatial tolerances. Are there any suggestions out there about how to cut
>the plates with only basic garage tools

Thats all I have. Just cut carefully.

Would anyone be interested if I make a stack of them. Cost about \$25US + \$5
for shipping??

cheers..mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

595. How-to for 1:100.000 ftp dlg dat

From: KC4ZGQ@aol.com
Date: Wed, 29 Nov 1995 10:04:46 -0500
To: aprssig@tapr.org
Message-ID: <951129100446_61124063@mail02.mail.aol.com>
Rendered body type: text/plain

I have been reading the sig for about six months. I down-loaded from the
usgs site the eight files that cover the macon area.
they were named mc1.rdf01.opt.gz or something similar I renamed these to
mcnrd1.gz incrementing the numeric for one through eight I then placed these
files in a directory with gunzip.exe and tried to unzip however I received a
message that the central file directory was missing. I also tried unblock.bas
without success. I don't know what to try next. Can someone on the sig list
the steps in order for making a map from this data. I have seen several
methods but they don't seem to work.

John F. Kraus II <KC4ZGQ@AOL.COM> or <JKHAM@DELPHI.COM>

596. Re: [APRSSIG:4691] GPS simultaneous parallel track

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Wed, 29 Nov 1995 10:27:27 -0600
To: aprssig@tapr.org
Message-ID: <9511291627.AA02384@omnifest.uwm.edu>
Rendered body type: text/plain

Jim,

I am responding because I also have a Garmin 75. I don't know
much (but I am trying to learn by watching the remailer).

My Garmin shows that I am traveling about .2-.6 mph while I am
PARKED! The other thing that bothers me is the altitude can move 50+ feet
while parked. This is with 5-6 satellites and an outside antenna (factory
remoted w/ RS cable.)

On a recent trip to the BOM near St. Louis I was interested to note
that the GPS was reporting 5 mph faster than the speedometer (and that was
supposed to be certified????).

Thanks for your comments - in advance.

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.ENG3BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

597. Re: [APRSSIG:4696] Re: GPS simultaneous parallel tracking

From: HENRYVB@aol.com
Date: Wed, 29 Nov 1995 11:28:25 -0500
To: aprssig@tapr.org
Message-ID: <951129112825_119838848@mail04.mail.aol.com>
Rendered body type: text/plain

In a message dated 95-11-28 14:37:11 EST, Bob APR wrote:

>On Tue, 28 Nov 1995, Jim DeLoach wrote:
>
>> usefull when velocity is greater. I know for a fact that my Garmin GPS-75
>> fell apart (lost lock) at about 80 miles/hour (cruzing down the runway in

>my
>> boss' aircraft), but hangs in there for me going about 65 down freeways.
>
>RTFM: All Garmins will QUIT when you approach 90 knots. They want you
>to buy their more expensive version for Aircraft.

This brings up a question: With the end of the 55 MPH speed limit and states talking about 75-80, or in the case of Montana NO daytime speed limit, what does that do to a GPS that falls asleep at 80 or so???

Just having fun in Chicago.

Henry
N9WMM
henryvb@aol.com
Northern IL APRS Net

check out our continually improving home page at:
<http://tbcnet.com/~davidc/aprs.html>

598. Re: [APRSSIG:4702] Re:

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Wed, 29 Nov 1995 10:12:29 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511291712.KAA13707@usr1.primenet.com>
Rendered body type: text/plain

At 06:31 PM 11/28/95 -0600, William Nolle wrote:
>Well this is not a Magellan trailblazer, it's a Nav-5000dx totally different
>ballgame believe me. A friend of mine has a Magellan Maredian it was a snap
>to hook it to a KPC-3, but all efforts failed that where suggested either by
>those on the Sig or Kantronic or Magellan!. I have to say i did get it working
>without any hassle on my Paccomm Tiny-2, by the way the KPC-3 had the
>latest firmware. And yes the Magellan had the correct output and voltage
>level. It would send out 1 and only 1 GPS beacon then quit updating even
>tough the Magellan kept sending data. Anyway this is all water under the
>bridge. Instead of 15 or 20 minutes i spend 15 or 20 days on it hi.
>
>Bill KE4EER
>wnolle@ro.com
>

Sounds like the output voltages are slightly different between the Maggie Trailblazer and the 5000DX, or something of that nature, but I'm just guessing. But for those who are looking for a "no-hassle" setup the Magellan Handhelds (Meridian, Trailblazer, Trailblazer XL) and the KPC-3 are the way to go. The KPC-3 can take their inputs unbuffered, and the Magellans WILL work in aircraft or speeds above 90 knots. And considering that Pres. Clinton repealed the nat'l 55 mph speed limit yesterday, high speed autoways may be in our future soon. The state of Arizona is already erecting 75 mph signs on certain areas of our interstates! I havn't seen a 75 mph sign since I was a pup!

I would make the argument that anyone on this sig knows more about Magellan and Kantronics products than the people who answer the phones at either company. This is not a flame, it is a fact. But this seems to be a problem in every industry. I can only think of one time where a product support line has ever been able to help me, and that was INDUS (back in the old days) when I had an INDUS GT floppy drive for my C-64. They put the engineer who DESIGNED the unit on the phone.

I'm very dissapointed with Kantronics Tech support and their manuals are horrible. The last time I called, I ended up explaining APRS and GPS to them, and I made the mistake of mentioning meteor scatter. They basically refused to put me on the phone with a programmer or engineer and did a thoroughly lousy job of selling the firmware upgrade.

I did take a look at the AEA answer to the KPC-3 (the PK-12?) and was very impressed by the user manual, but after talking to the HRO guys and the people at the Phoenix PUG, it seems the KPC-3 is superior. I wish Kantronics would take a look at AEA's manual and use it as a model.

73,

Mark Fellhauer - KC7BXS
ThunderBird Packet Radio Coordinator
sparkfel@primenet.com
KC7BXS@N7MRP.AZ.USA.NA

599. Re: [APRSSIG:4712] Re: Gift horses

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Wed, 29 Nov 1995 10:26:26 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511291726.KAA16181@usr1.primenet.com>
Rendered body type: text/plain

At 12:17 AM 11/29/95 -0600, n2czf@gate.net wrote:

>
>>>BTW, in Phoenix we use a digital mode
>>>repeater for much of our APRS work on 147.1(+) (although we are trying to
>>>move to 145.79). This repeater sits on the White Tank Mountains west of
>>>Phoenix (at about
>>>4000 ft) and provides excellent coverage through most of the Phoenix Metro
>>>area.
>
>I would like to hear from others that run similiar digital repeaters either on
>VHF or UHF. I have recently placed a UHF repeater on the air and would like to
>try my hand at one of these. I need more first hand information on the
>"Regeneration Boards", exactly what they accomplish and why. Won't a plain ol'
>TNC do the same thing at the repeater ??
>
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>

Although I don't have their address handy, the Arizona Repeater Association has a web page. If you can't find it, I'll get it for you. You should be able to get in touch with someone there who can assist you. Another good person to speak with is Dan, N7MRP, president of the Arizona Intertie Group. Again, I don't have his email address with me.

BTW the ARA is the largest repeater group in the Country (biggest membership) with 19 operating repeaters in central Arizona including FIVE open autopatches, and dues under \$20 per year. It's a fine organization, and I'm proud to be a dues paying member. Phoenix is a odd place for packet as the majority of BBS and Keyboard to Keyboard traffic is conducted via two 2m digital mode repeaters. Although we have our share of digi's and nodes, but not like San Diego, where the packet infrastructure seems to rely mostly on simplex freq's.

Hope this helps,

73

Mark Fellhauer - KC7BX5
ThunderBird ARC Packet Coordinator
sparkfel@primenet.com
KC7BX5@N7MRP.AZ.USA.NA

600. Re: [APRSSIG:4700] Re: GPS simultaneous parallel tracking

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 29 Nov 1995 12:50:44 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511291219.B5179-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

At one time in my life I would have agreed with you Rich. However now I recognize the difference between engineering and marketing:

Engineering generally strives to provide as many features as possible for the money. Not a bad idea from a manufacturing expense point of view.

Marketing generally strives to provide as much income as possible for the features offered. Not a bad idea from a corporate bottom line point of view.

In one of my employments I was responsible for LSI design. The chip requirements were set to accomodate all of the features desired by marketing. An additional requirement is to have the features selectable by manufacturing in accordance with the sales orders. The performance features varied with the model, and so also the price. All models of the product had the same electronics. Some of the features were inhibited according to the model number (and price).

Once a CEO told me that customers do not buy products ... they buy

features. I believe that is one of the few things that guy taught me that was true. (The other thing was that nothing ever happens until someone sells something ... not a bad axiom for an engineering manager to keep in mind).

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Tue, 28 Nov 1995 n2czf@gate.net wrote:

> told by a local ham and then GARMIN that indeed it will stop operations. When I
> for the Aeronautical market! I made a few comments and quickly hung up the
> phone, for someone to actually go to the effort of having a product NOT DO
> something is insane and I think bad reflection on the company in general.
>
> My GPS-50 works fine but I am planning on not buying a Garmin in the future do
> to the above actions by Garmin. I don't do much flying anymore but just the
> idea... I will look at Magellan and the others from now on.
>
> 73's De Rich N2CZF
> n2czf@gate.net
> Jupiter Farms Florida

601. 1:100.000 ftp howto

From: KC4ZGQ@aol.com
Date: Wed, 29 Nov 1995 12:51:57 -0500
To: aprssig@tapr.org
Message-ID: <951129125156_38119780@mail06.mail.aol.com>
Rendered body type: text/plain

I tried renaming the files as Bill suggested but no luck. The error message is as follows:

-----VERBATIM ERROR MESSAGE-----

Archive: mnrd01.gz

End-of-central-directory signature not found. Either this file is not a zipfile, or it constitutes one disk of a multi-part archive. In the latter case the central directory and zipfile comment will be found on the last disk(s) of this archive.

unzip: can't find zipfile directory in mnrd01.gz,
and can't find MNRD01.gz.zip, period.

I typed this from a print screen.

Any suggestions?

John F. Kraus II <KC4ZGQ@AOL.COM> OR <JKHAM@DELPHI.COM>

602. APRSSIG backup file

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 29 Nov 1995 12:59:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951129124925.10053B-100000@greatlakes>
Rendered body type: text/plain

OK, I took the initial ZIP code list provided by Calude and built a history file from it. That way you can replay it over your existing map, without destroying your current P-LIST. This very first list contained about 72 entries. 9 callsigns were rejected due to their ZIPS not being in the ZIP data base I was using. I will wait until tomorrow to put out the .HST file since it hasn't even been 24 hours yet since we first decided to do this. and ZIPS are coming in all the time.

WE ONLY WANT ZIPS OF USERS ON THE SIG. We do not want ZIPS of anything else. The purpose of this file is to be able to see geographically who is on the sig, so that we can see if there are any areas of the country that are NOT represented here.. This is just a tool so we can see if the "WORD" from the SIG has a good chance of hitting all the areas of activity.

>From the first 70 processed, there are still some big holes, so I will wait until the full list is done before distributing the ZIP-SIG.HST file tomorrow.

Here are the calls and zips that were not in the ZIP database. These stations should reply to me (APR) so I can update my ZIP database. Please provide the LAT/LONG of the CENTER of your zip code area... only to the nearest minute. Thanks
20547 K3VOA

30152 N4NEQ
45431 KB8DNR
93555 KC6UUR
94404 W7KKE
94712 N6FRI
96706 WH6YC

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

603. Re: [APRSSIG:4721] Re:

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Wed, 29 Nov 95 12:12:25 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199511291812.MAA21562@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

----- REPLY, Original message follows -----

> I'm very disappointed with Kantronics Tech support and their manuals are
> horrible.

----- REPLY, End of original message -----

Ok, let me tell y'all about MY experience with Kantronics...

I was carrying my KPC-3 to the car and dropped it on a concrete floor. I tend to be rather clumsy sometimes. Found out that the STA and MAIL LED's were smashed, everything else worked. The KPC-3 proved to be more rugged than I thot. I called Kantronics for replacements and also to order the Ver . 6.0 firmware. The man I talked to was very nice, suggested that I could get those LED's at any Radio Shack if I wanted to. I told him it would be easier on me if I could just have it delivered. He said he'd send two no charge. I also asked about larger RAM. He again suggested that a RAM chip of a certain # would probably work just fine. But if I couldn't find it, they could gladly sell their factory part to me. It would cost more, though ..

So, my experience with Kantronics, the KPC-3, and the manual (I like it) has been positive.

Now let me tell you a horror story about MFJ....

--
J Barry Leonard HamRadio N9VJQ/EN510W
Subependymoma 1990
DeKalb IL
E-MAIL: jleonard@tbcnet.com

604. Re: [APRSSIG:4680] Re: QST Patch Antenna

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 29 Nov 1995 12:19:48 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511291819.MAA29684@solar.cs.tamu.edu>
Rendered body type: text/plain

Hi, Mike,

Mike Walker sez:

>
> If what you say is correct (and I'm not denying it), then leave well enough
> alone I guess? If this unit receives only 8 satellites, then the only time
> (with the current constellation) that you receive all 8 is when you get the
> satellites below 25 degrees.

I'd leave well enough alone. What you really want to do is optimize geometries to as many (up to 8 in your case) birds as possible while looking to minimize excessive ionospheric propagation delays. When you're in an urban canyon environment you really want to look high in the sky for this and 2 other reasons: 1) buildings make good signal blockers and there's no reasons to make your GPS receiver look for satellites that are blocked by buildings most of the time. 2) signal reflection from buildings (multipath) will really screw you up. IF the GPS receiver looks at the almanac and says, "Hmmm. SV(PRN) 14 is at 22 degrees, but PRN 31 is at 38 degrees. I think I'll use 31." it's going to run a smaller chance of seeing signals from a satellite that are multiply reflected and therefore a couple of chips late... or distorted.

> So, to see if I understand this, my best mode of operation from a mobile who is
> sometimes in a tell urban environment is to look from about 25 degrees and up
> for the strongest signals? I managed to improve the low level signals by
> inserting a vertical component approximately 1/4 wave at the feed point.

That's it. If you can tell your receiver to look for "highest in sky" or set a satellite mask angle to something pretty steep, you'll help yourself. You may have to relax your original settings to optimize performance in YOUR locale.

> This immediately helped, but, based on the above statement, might actually give
> me a signal with less accuracy? (would this be the reason I sometimes see
> "jogs" in my track perpendicular to my travel, or is this from the dialed in
> error?)

A combination of the two. It'd be hard to tell without some long baseline data and statistical calculations.

> It sounds like you've done a lot more research on this then most. I did find
> that I did loose lock a little more often then when I had the external antenna
> stuck on top of the car at the end of a piece of RG-174.

Well, someone was silly enough to offer me a job and PAY me to learn all about GPS... It's a hoot!

73, gerry

605. Re: [APRSSIG:4681] Re: QST Patch Antenna

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 29 Nov 1995 12:21:59 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511291822.MAA29757@solar.cs.tamu.edu>
Rendered body type: text/plain

Mike Walker sez:

>
> To follow on (as I reread your note), I noticed that I was loosing Birds
> somewhere around 40 degrees, and I wanted to get them a bit lower. As a
> mobile, how low should I go?

You should be seeing them down to the horizon, plus or minus the constraints of the antenna's design. I guess I need to look at that, and get a feel for the E and H plane patterns... For an urban canyon environment, a 20-25 degree minimum elevation should work pretty well. If all you can see is >40 degrees, something's broke! put your extension back on!

73, gerry

606. Re: [APRSSIG:4721] Re:

From: dwetzel@acs.uswest.com
Date: Wed, 29 Nov 1995 11:29:22 -0600
To: aprssig@tapr.org
Message-ID: <0bc9cfd0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

I did take a look at the AEA answer to the KPC-3 (the PK-12?) and was very impressed by the user manual, but after talking to the HRO guys and the people at the Phoenix PUG, it seems the KPC-3 is superior. I wish Kantronics would take a look at AEA's manual and use it as a model.

73,

Mark Fellhauer - KC7BXS
ThunderBird Packet Radio Coordinator
sparkfel@primenet.com
KC7BXS@N7MRP.AZ.USA.NA

----->

This is what is called an "after-market" opportunity!

;-)

Doug
KC7CO

607. RE: [APRSSIG:4719] Re: GPS simultaneous parallel track

From: "Richard L. Holbert" <rholtbert@manny.rcinet.com>
Date: Wed, 29 Nov 1995 13:29:15
To: aprssig@tapr.org
Message-ID: <199511291829.NAA14468@manny.rcinet.com>
Rendered body type: text/plain

David,

Sounds like your perceived problems are due to what's called selective availability or SA for short. The military can introduce an error factor into the commercial GPS signals to prevent an enemy from using cheap GPS guidance systems for smart their weapons. The random altitude error factor is the most variable due to the threat of cruise missiles coming in low to avoid radar detection. The idea is that we might be able to trick them into crashing into the dirt prior to them reaching their targets.

SA can vary depending on the world situation. During the first few days of the Bosnian peace talks our building near Wright-Patterson AFB was moving all over the map!

Hope this helps!

On Wed, 29 Nov 1995 10:33:47 -0600 (CST),
aprssig@tapr.org wrote...

>Jim,
>
> I am responding because I also have a Garmin 75. I don't know
>much (but I am trying to learn by watching the remailer).
>
> My Garmin shows that I am traveling about .2-.6 mph while I am
>PARKED! The other thing that bothers me is the altitude can move 50+ feet
>while parked. This is with 5-6 satellites and an outside antenna (factory
>remoted w/ RS cable.)
>
> On a recent trip to the BOM near St. Louis I was interested to
note
>that the GPS was reporting 5 mph faster that the speedometer (and that
was
>supposed to be certified????).
>
> Thanks for your comments - in advance.
>
>CUL & 73 de Dave
>=====

=

>==

>David W. Barrow III * Amateur Radio:N9UNR *
>Internet:dbarrow@omnifest.uwm.edu
>U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin
>53095-9603
>Ma Bell:(414) 375-2667 * Amateur
>Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
>Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go
>ham
>=====

=

>==

>
>

Rick Holbert

Ham: KB8DNR
Work: rholtbert@arinc.com
Home: rholtbert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

608. GPS Errors (was Re: GPS simultaneous parallel track)

From: Jim DeLoach <jim.deloach@cellnet.com>
Date: Wed, 29 Nov 1995 10:29:22 -0800
To: aprssig@tapr.org
Cc: dbarrow@omnifest.uwm.edu
Message-ID: <199511291833.KAA16360@cellmail.cellnet.com>
Rendered body type: text/plain

The GPS system intentionally adds some error to thwart "enemies". This is known as "selective availability" (SA), and is the bane of many a GPS application. This will cause the wandering motion in position and altitude

you describe even though you are stationary! An additional 5mph, if it is consistent over more than just a few seconds, seems a bit excessive, though. I'd check your speedometer!

The Garmin has some time smoothing capabilities that should reduce this wandering effect.

The classic solution to SA is to use differential correction. This is where a reference station at a known location broadcasts correction information to differential-GPS users, who then apply this information to improve accuracy. We have found it quite successful in eliminating the annoying SA error, and bring us into roughly plus-or-minus 10 meter accuracy. The coast guard broadcasts such correction signals in a standard format through a network of long wave transmitters (including one in St. Louis) for free. Various commercial interests are also broadcasting using FM sub-carriers. We use DCI (which also is available in St. Louis), but they charge a per-year subscription that can get a bit steep.

Cheers.
Jim, WU0I

At 10:33 AM 11/29/95 -0600, you wrote:

```
>Jim,
>      I am responding because I also have a Garmin 75. I don't know
>much (but I am trying to learn by watching the remailer).
>      My Garmin shows that I am traveling about .2-.6 mph while I am
>PARKED! The other thing that bothers me is the altitude can move 50+ feet
>while parked. This is with 5-6 satellites and an outside antenna (factory
>remoted w/ RS cable.)
>      On a recent trip to the BOM near St. Louis I was interested to note
>that the GPS was reporting 5 mph faster than the speedometer (and that was
>supposed to be certified???)
>
>      Thanks for your comments - in advance.
>
>CUL & 73 de Dave
>=====
>David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
>U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
>Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
>Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
>=====
>
>
>
```

609. RE: [APRSSIG:4724] 1:100.000 ftp howto

From: "Richard L. Holbert" <rhobert@manny.rcinet.com>
Date: Wed, 29 Nov 1995 13:34:53
To: aprssig@tapr.org
Message-ID: <199511291835.NAA14505@manny.rcinet.com>
Rendered body type: text/plain

Which program did you say you were using to unzip these files with?

USGS used GNUzip to compress the files, and you must use gzip to uncompress them. They are not PKzip compatible!

On Wed, 29 Nov 1995 12:01:03 -0600 (CST),
aprssig@tapr.org wrote...
>I tried renaming the files as Bill suggested but no luck. The error
>message
>is as follows:
>-----VERBATIM ERROR MESSAGE-----
>Archive: mnrdf01.gz
>End-of-central-directory signature not found. Either this file is not
>a
>zipfile, or it constitutes one disk of a multi-part archive. In the
>latter
>case the central directory and zipfile comment will be found on the last
>disk(s) of this archive.
>unzip: can't find zipfile directory in mnrdf01.gz,
>and can't find MNRDF01.gz.zip, period.
>-----
>I typed this from a print screen.
>
>Any suggestions?

>
>John F. Kraus II <KC4ZGQ@AOL.COM> OR <JKHAM@DELPHI.COM>
>
>

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

610. Re: [APRSSIG:4719] Re: GPS simultaneous parallel track

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Wed, 29 Nov 1995 10:40:33 -0800
To: aprssig@tapr.org
Message-ID: <v01510104ace25926b0b6@[128.149.100.84]>
Rendered body type: text/plain

> My Garmin shows that I am traveling about .2-.6 mph while I am
>PARKED! The other thing that bothers me is the altitude can move 50+ feet
>while parked. This is with 5-6 satellites and an outside antenna (factory
>remoted w/ RS cable.)

This is called "selective availability".

-Greg

--
Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
Pasadena, CA 91109 |

611. FS: TNC-200 w/GPS SW

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Wed, 29 Nov 1995 10:37:54 -0800
To: aprssig@tapr.org
Message-ID: <9511291837.AA25254@gvgadg.gvg.tek.com>
Rendered body type: text/plain

I thought I would post this TNC here first to allow the sig members first chance.

I have a Paccomm TNC-200 for sale. The unit has been upgraded with the new software from Paccom a couple of months ago to get the GPS features. I built the TNC from a kit, many years ago, and have never had any problems with it. So if you need another TNC....

Besides, with a DSP-2232, KPC-9612 & and the PicoTNC, something has to go!!!

So, \$75 is the price. Power, audio connectors, and manuals are included. No wall wart, I power it from my station 12VDC supply.

Terms:

I'll want a bank check or Money Order. No personal checks or COD.
When I get the check I'll ship, and pay, it UPS ground the next day. USA only.

Randy
WA2AGE

My opinions are my own.

Ryan's Application of Parkinson's Law:
Possessions increase to fill the space available for their storage.

Randy Hall WA2AGE randyh@gvgadg.gvg.tek.com Grass Valley Group

612. Re: [APRSSIG:4729] Re:

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Wed, 29 Nov 1995 13:36:22 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511292036.NAA23439@usr1.primenet.com>
Rendered body type: text/plain

At 01:39 PM 11/29/95 -0600, dwetzel@acs.uswest.com wrote:

>
>
>----->
>
>This is what is called an "after-market" opportunity!
>

Agreed. That's why we have a Phoenix PUG (Packet Users Group). We meet once a month on Saturday for breakfast. Phoenix PUG has no fees or dues, no board of directors, no charter, and no rules...except buy your own breakfast (unless you want to buy Barney, KB7KOE, breakfast).

It's just a bunch of people meeting to discuss packet and to help each other with problems associated with packeteering.

Mark KC7BXS
sparkfel@primenet.com

613. Errors in location

From: "Baker, Donn B" <dbb4@P07.RV.unisys.com>
Date: Wed, 29 Nov 95 14:48:00 CST
To: aprs-submit <aprssig@tapr.org>
Message-ID: <30BCC78F@rsvl_gw.rsvl.unisys.com>
Rendered body type: text/plain

The basic control of accuracy of location in any navigation system is the resolution of the "lines of position" (l-o-p) of the system and GPS is no exception. When we take a "fix" from a satellite, we get a circle (the "line of position"), and we are at *some* point on that circle. We look at another satellite, get a second circle, superimpose it on the first, and where the two cross, that's where we are. There are two places where the circles cross (usually), so a third fix is required to remove the ambiguity. The resolution comes into play in the angle at which the l-o-p's cross one another. If the l-o-p's cross at high angles, then the error is small and the fix is "good;" while if the lines cross at shallow angles, there is a lot of spatial uncertainty, and the fix is not so good.

Example:

```

              l-o-p #1
              /
             /
-----+----- l-o-p #2
       /
      /
a "good" fix (only two l-o-p's shown)

----- l-o-p #1
////////// l-o-p #2
-----
a "poor" fix, because the crossing is very badly defined.
```

For the best accuracy, the three satellites (or stars, if you're doing celestial navigation), should be widely separated in the sky (120 degrees apart), and near the horizon. If all three satellites are near the zenith, you will have reduced accuracy because all of the crossing angles will be very shallow; the second example above.

To get altitude information, a fourth satellite is needed, but the process is exactly the same. Note that altitude fixes can NEVER have the same accuracy as the 2D position can. I've seen (somewhere) that the best you can do is about 1/3rd the accuracy of the 2D position. Ideally, for altitude, you need 5 sats: the three at the horizon, spaced 120 degrees, one at the zenith (directly overhead), and *one at the nadir* (directly beneath). That last one is VERY difficult to receive!

Once the Selective Availability gets turned on, GPS works out to be about a couple of hundred feet for overall accuracy. I use GPS for locating grid square corners for VHF Rover operations, and antenna bearings for aiming antennas. I "trust" it to no better than 3" of arc, either latitude or longitude. If I'm contesting, to besure I've crossed the grid square boundary, I go at least the full arc minute.

Hope this helps. 73,
Donn WA2VOI EN35ja

614. RE: [APRSSIG:4709] APRS MIM module

From: "Richard L. Holbert" <rhobert@manny.rcinet.com>
Date: Wed, 29 Nov 1995 15:50:15
To: aprssig@tapr.org
Message-ID: <199511292050.PAA04240@manny.rcinet.com>
Rendered body type: text/plain

Bob,

Let me know if you need any help with beta testing, docs, etc.

I've also heard rumblings with-in the company about a \$25 GPS sensor.
They're still in preproduction, so don't mention our company's name
on the SIG. Wouldn't it be great if we could build a \$50 TNC/GPS combo.

On Tue, 28 Nov 1995 20:52:52 -0600 (CST),
aprssig@tapr.org wrote...
>Well the 2nd generation MIM module prototype is now on the air. This is
>a single chip micro about the size of a matchbox that is basically the
>transmit side of a TNC. It has the same features as described in the
>APRS\README\TELEMETRY.txt file but with a few more features:
>
> 5 analog inputs
> 8 digital bit inputs
> GPS NMEA input
>
>it outputs ax.25 packets (audio)
> BEACON packet
> APRS POSIT packet
> TELEMETRY packet
> CW-ID if needed
>
>This one can be configured via a serial port in the field and it has a
>NOVRAM memory for config.
>
>DO NOT BOTHER US WITH QUESTIONS ABOUT AVAILABILITY OR ANYTHING ELSE. WE
>WILL ANNOUNCE ANY developments as soon as we figure it all out. Gotta
>get some boards made and debugged, docs and stuff... You will hear about
>it here as soon as we know!
>
>
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
>
>

Rick Holbert

Ham: KB8DNR
Work: rhobert@arinc.com
Home: rhobert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

615. Re: [APRSSIG:4726] Re:

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Wed, 29 Nov 1995 13:24:09 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511292024.NAA25863@usr5.primenet.com>
Rendered body type: text/plain

At 01:15 PM 11/29/95 -0600, John B. Leonard wrote:

>
>Ok, let me tell y'all about MY experience with Kantronics...
>
>
>So, my experience with Kantronics, the KPC-3, and the manual (I like it) has
>been positive.

That's all well and good, but try asking them a TECHNICAL question, not a
parts order question. Like, "what does this feature do, I'd like to know
before I plunk my \$\$ down..." or "does the KPC-3 allow GPS timesetting in
GMT or local time?"

Ask ?'s like these and you'll get an "idunno."

Also, have you looked at another manufacturer's manual, like AEA? The

Kantronics manual leaves a lot to be desired, especially for the novice, and hey, the KPC-3 is supposed to be an entry level TNC. Not to mention their TNC wiring diagram for Yaesu HT's won't work with the FT11R, 41R, 51R.

I do a lot of technical writing (I work for a Environmental Consulting Firm) and I could do better.

>
>Now let me tell you a horror story about MFJ....
>

Please do.

Mark Fellhauer
KC7BX5
sparkfel@primenet.com

616. RMC data to history files

From: Daniel Velez <dvelez@norfolk.infi.net>
Date: Wed, 29 Nov 1995 16:11:42 -0500
To: aprssig@tapr.org
Message-ID: <199511292111.QAA08609@moe.infi.net>
Rendered body type: text/plain

Someone asked if anyone had tweaked WB4APR's GPSTOHST.BAS program to look for RMC sentences. I have and use the following regularly:

```
CLS : CLEAR
REM RMCTOHST.BAS N4WZR adapted from WB4APR's GPSTOHST.BAS program
PRINT "This program takes RAW data download file from a GPS receiver in "
PRINT "NMEA-0183 RMC format, reformats it and outputs an APRS history"
PRINT "(.HST) file."
PRINT
PRINT
INPUT "Enter file name of raw GPS data"; FI$
INPUT "Enter name of OUTPUT TRACK HISTORY file"; FO$
INPUT "Enter callsign to be used with the raw data"; CALL$
INPUT "Enter symbol for character (Car >, Air ', Boat ~)"; Sym$
  IF LEN(Sym$) <> 1 THEN Sym$ = ">"
OPEN FI$ FOR INPUT AS #1
OPEN FO$ FOR OUTPUT AS #2
DO WHILE NOT EOF(1)
  LINE INPUT #1, A$
  REM $GPRMC has 12 comma-separated fields. This portion evaluates the input
  REM string character by character and generates F$(1) thru F$(12).
  REM F is field number and C is character number in A$ we're looking at.
  DIM F$(12)
  FOR A = 1 TO 12: F$(A) = "": NEXT A: F = 1: C = 1
  DO UNTIL F = 12
    IF MID$(A$, C, 1) = "," THEN F = F + 1 ELSE F$(F) = F$(F) + MID$(A$, C, 1)
    C = C + 1
  LOOP
  REM
  REM Now that we have 12 fields, we'll scrutinize them individually and
  REM build our final variables.
  REM
  LET CALL$ = LEFT$(CALL$ + " ", 10)
  UTC$ = MID$(F$(10), 1, 2) + MID$(F$(2), 1, 4)
  LAT$ = MID$(F$(4), 1, 7) + F$(5)
  LON$ = MID$(F$(6), 1, 8) + F$(7)
  CSE$ = F$(9)
  SPD$ = F$(8)
  Pkt$ = CALL$ + UTC$ + " @" + UTC$ + "z" + LAT$ + "/" + LON$ + Sym$ + CSE$ +
  "/" + SPD$ + "/raw*/RMC Fix"
  PRINT #2, Pkt$
LOOP
CLOSE
END
-----
Dan Velez                A00000GA! A00000GA!
dvelez@infi.net          DIVE! DIVE! DIVE!
n4wzr@wd4miz.va.usa.noam "Shimmin' out!"
-----
```

617. CD ROM Maps & APRS

From: bob.baltz@ustc.vlsi.COM (Bob Baltz)
Date: Wed, 29 Nov 1995 16:30:44 +0000

To: aprssig@tapr.org
Message-ID: <9511292123.AA06354@oriole.ustc.vlsi.COM>
Rendered body type: text/plain

Precision Mapping offers a two CD set of maps of the US. I have used them for some time and they have a manual lat/lon locate feature. They are working on a GPS interface but it keeps being put off for other priorities. I spoke to them today and they are taking names of interested people. They told me a large list would move up the priority. If you have an interest in this you may wish to call them at 708 257 7616 or e-mail at jsix@ix.net.com (looks strange but thats what they gave me)

Bob Baltz *
Chesapeake Region Sales *
Ph:(410) 987- 8777 *
Fax: (410) 987-4489 *
E-mail bob.baltz@ustc.vlsi.com *

618. Re: [APRSSIG:4707] Re: GPS simultaneous parallel tracking

From: n2czf@gate.net
Date: Wed, 29 Nov 1995 17:37:56 -0500
To: aprssig@tapr.org
Message-ID: <199511292237.RAA34190@tequesta.gate.net>
Rendered body type: text/plain

As far as FAA approval on GPS units this is true, it is true for any electronics used on aircraft if it is used for primary operations and if it is used for IFR flying. A GPS unit is not required by any means to operate an aircraft as you well know but private pilots are buying them up as a supplement to their regular nav tools as in charts, and sight.

Garmin does make some units, I believe a GPS-100 and others, which is a dash mounted GPS head that it's intended use is for aircraft. A unit of this type is intended for aircraft installations so it would only make sense to have it FAA certified.

If you are not using a GPS as a primary nav tool (have GPS units been approved yet for navigation?) and have the other required tools to navigate no one needs approval for anything.

Again I WAS TOLD BY GARMIN that is why the limit the speed, marketing! I am not making any assumptions THEY TOLD ME!!

Sorry...
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

619. Re: [APRSSIG:4726] Re:

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Wed, 29 Nov 1995 16:25:38 -0800
To: aprssig@tapr.org
Message-ID: <v01510101ace2a99696e7@[128.149.100.84]>
Rendered body type: text/plain

>> I'm very disappointed with Kantronics Tech support and their manuals are
>> horrible.

>
>----- REPLY, End of original message -----

>
>Ok, let me tell y'all about MY experience with Kantronics...

>
...
>So, my experience with Kantronics, the KPC-3, and the manual (I like it) has
>been positive.

I too have to agree. Kantronics Tech Support has been nothing but extremely helpful with my KPC-3s, KPC-9612, and KTU.

-Greg

--
Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
Pasadena, CA 91109 |

620. Re: [APRSSIG:4672] Re: I'm missing something?

From: BenWS5R@aol.com
Date: Wed, 29 Nov 1995 19:56:05 -0500
To: aprssig@tapr.org
Message-ID: <951129195602_38631110@mail04.mail.aol.com>
Rendered body type: text/plain

Where can others get access to these maps? It would be nice to use them to work on the panhandle of Texas. APRS is growing in the area with at least 10 regular users in West Texas and at last count 9 RELAY/WIDE nodes, unfortunately they are on 145.01. Hope to have a 01 to 79 gate up in Amarillo soon. 73 Ben WS5R 3514.12N 10149.54W

621. SPECIAL EVENT ANNOUNCEMENT

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Thu, 30 Nov 1995 01:01:37 +0000 (EST)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.951130005408.26935A-100000@pinegov>
Rendered body type: text/plain

NOTICE TO ALL AMATEUR RADIO APRS USERS:

The Pinellas County Sheriff's Office, Clearwater, Florida, will be sponsoring the Third Annual "Ride with the Stars" on December 2, 1995 at 0800 EST (0300 GMT).

This event, which includes a 25 Mile bike run, 7 mile bike fun ride, 7 mile inline skating event, and 5 k run will take place at historic Ft. Desoto Park located on Mullet Key near the mouth of the Tampa Bay. This event supports the annual Christmas Sharing Project for needy families.

The event will include a KPC-3/Garmin 45 GPS mobile leading the pack and APRSDR to report other tracks. The entire operation will take place on 145.790 VHF and gated via the KD4UYR gateway onto 30 M.

Wide area digipeaters in use will be KR4US-10 in downtown Clearwater, KD8AQ-11 in downtown Tampa, and KD4EFM-10 in Bartow (near Lakeland).

73 and enjoy!

de Kevin Heyboer KD4UYR

622. Re: [APRSSIG:4746] Re:

From: ke4eer@ro.com (William Nolle)
Date: Wed, 29 Nov 1995 20:03:18
To: aprssig@tapr.org
Message-ID: <199511300310.VAA16609@sh1.ro.com>
Rendered body type: text/plain

Ok since this looks like there's no end to it let me tell you about my disappointing call to tech support and eventually to an engineer about my problem of not being able to interface my GPS to the KPC-3. The thing they wanted to know when i mentioned APRS, WHAT IS APRS and these folks make their living from the ham community, i mean i went right up the ladder and did not get any help with my problem at all. The engineer told me that if the GPS has the correct voltage level and is RS232 compatible it has to work. BUT IT DOESN'T, At Maggelan i got about the same story IT HAS TO WORK. But guess what it doesn't. I have no confidence in tech support after the purchase from any of the two company's. So no flames guys Hi Hi i'm still burning up from the last go around.

Bill KE4EER
ke4eer@ro.com

>>> I'm very disappointed with Kantronics Tech support and their manuals are
>>> horrible.
>>
>>----- REPLY, End of original message -----
>>
>>Ok, let me tell y'all about MY experience with Kantronics...
>>
>...
>>So, my experience with Kantronics, the KPC-3, and the manual (I like it) has
>>been positive.
>
>I too have to agree. Kantronics Tech Support has been nothing but extremely
>helpful with my KPC-3s, KPC-9612, and KTU.
>
>-Greg
>

>--
>Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov
>Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
>Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
>M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
>Pasadena, CA 91109 |
>
>

623. DATA RADIO OPTIONS and GPS applications

From: KD4EMI@aol.com
Date: Wed, 29 Nov 1995 23:26:47 -0500
To: aprssig@tapr.org
Message-ID: <951129232647_38919183@emout04.mail.aol.com>
Rendered body type: text/plain

I meant to write this a while back ago when the thread about the MFJ radio was active.

Here are my thoughts:

Why not purchase a RS HT-202.
When they are on sale for \$99.00 its a great deal !
You get a frequency agile rig for a low price, that is running a low duty cycle application. Plug in the top connector to 12VDC and your ready to roll.
Additionally , you can keep a battery pack handy and use the radio for other applications !
The only disadvantage I see is not being able to use it on 9600.
A minor problem really , dont you think ?

ON TO GPS STUFF

More is always not better in GPS sat telemetry. IT is sometimes better to recieve 5 good sats then 5 good and 3 bad ones! I
SOMETIMES (according to my GPS screen) get 45 feet accuracy..(SOMETIMES)
ALMOST ALWAYS the accuracy is less than 100 feet.

I would like to inquire: is this common for the rest of you folk ?
Mike KD4EMI@AOL.COM
(SOUTH FLORIDA WHERE EVERYONE'S A WIDE)

624. Re: [APRSSIG:4711] E.Coast 4 alias plan

From: KD4EMI@aol.com
Date: Wed, 29 Nov 1995 23:26:48 -0500
To: aprssig@tapr.org
Message-ID: <951129232645_38919157@mail02.mail.aol.com>
Rendered body type: text/plain

Bob, hate to sound like a party pooper...here is the problem I see with the 4 alias plan...

IT REQUIRES COOPERATION AND PLANNING FROM
PEOPLE !

Here is South Florida (where everyone's a wide) we cant get 2 people to agree on where to have club breakfasts...

With COOPERATION though..Im all for it..

625. Re: [APRSSIG:4750] DATA RADIO OPTIONS and GPS applications

From: ke4eer@ro.com (William Nolle)
Date: Wed, 29 Nov 1995 23:30:02
To: aprssig@tapr.org
Message-ID: <199511300637.AAA23141@sh1.ro.com>
Rendered body type: text/plain

Yes for the most part my Magellan NAV5000DX starts beeping as soon as i hit the edge of my driveway, it's about 25-30 feet from my tower wich is entered as my homing point (Or waypoint). I have found as the manual states that for 80 percent of the time the accuracy is less then 80 feet.

Bill KE4EER
ke4eer@ro.com

>I meant to write this a while back ago when the thread about the MFJ
>radio was active.
>
>Here are my thoughts:

>
>Why not purchase a RS HT-202.
>When they are on sale for \$99.00 its a great deal !
>You get a frequency agile rig for a low price, that is running a low duty
>cycle application. Plug in the top connector to 12VDC and your ready to
>roll.
>Additionally , you can keep a battery pack handy and use the radio for other
>applications !
>The only disadvantage I see is not being able to use it on 9600.
>A minor problem really , dont you think ?
>
>ON TO GPS STUFF
>
>More is always not better in GPS sat telemetry. IT is sometimes better to
>recieve 5 good sats then 5 good and 3 bad ones! I
>SOMETIMES (according to my GPS screen) get 45 feet accuracy..(SOMETIMES)
>ALMOST ALWAYS the accuracy is less than 100 feet.
> I would like to inquire: is this common for the rest of you folk ?
>Mike KD4EMI@AOL.COM
>(SOUTH FLORIDA WHERE EVERYONE'S A WIDE)
>

626. Re: [APRSSIG:4718] How-to for 1:100.000 ftp dlg dat

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 29 Nov 1995 13:00:01 -0500 (EST)
To: KC4ZGQ@AOL.COM
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511291248.C5179-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I unzip these things using the GZIP.EXE utility with the -d parameter.
It seems to work. Unblock the unzipped results.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Wed, 29 Nov 1995 KC4ZGQ@aol.com wrote:

> I have been reading the sig for about six months. I down-loaded from the
> usgs site the eight files that cover the macon area.
> they were named mc1.rdf01.opt.gz or something similar I renamed these to
> mcnr01.gz incrementing the numeric for one through eight I then placed these
> files in a directory with gunzip.exe and tried to unzip however I received a
> message that the central file diretory was missing. I also tried unblock.bas
> without success. I don't know what to try next. Can someone on the sig list
> the steps in order for making a map from this data. I have seen several
> methods but they don't seem to work.
>
>
> John F. Kraus II <KC4ZGQ@AOL.COM> or <JKHAM@DELPHI.COM>
>
>

627. Re: [APRSSIG:4725] APRSSIG backup file

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Thu, 30 Nov 1995 08:55:13 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9511300755.AA01996@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

Bob Bruninga writes:

>
> WE ONLY WANT ZIPS OF USERS ON THE SIG. We do not want ZIPS of anything
> ...

I missed the original request for ZIP codes as unfortunately I can't
read everything that comes through on this sig due to lack of time.

Are you collecting ZIP codes ONLY for U.S. APRSSIG members or for anyone
on the SIG? My ZIP-code here in Germany, 75382, is bound to conflict
with a U.S. ZIP code unless you've also got a "Country" field.

I'd like to see how much and where APRS is used elsewhere in the world!

Auf wiedersehen,

--Shannon, DL6SEU (AKA N7APC)

628. Re: [APRSSIG:4743] CD ROM Maps & APRS

From: Per Molund <per@proact.no>
Date: Thu, 30 Nov 1995 11:03:32 +0100 (MET)
To: aprssig@tapr.org
Cc: bob.baltz@ustc.vlsi.com
Message-ID: <Pine.PCW.3.91.951130105651.6607A-100000@gruff>
Rendered body type: text/plain

On Wed, 29 Nov 1995, Bob Baltz wrote:

> people. They told me a large list would move up the priority. If you have
> an interest in this you may wish to call them at 708 257 7616 or e-mail at
> jsi@ix.net.com.com (looks strange but thats what they gave me)
>
> Bob Baltz *
> Chesapeake Region Sales *
> Ph: (410) 987- 8777 *
> Fax: (410) 987-4489 *
> E-mail bob.baltz@ustc.vlsi.com *
>

Bob,

I think the email address should be jsi@ix.netcom.com, DNS can't find
ix.net.com.com. See below.

---per

eunet% nslookup ix.net.com.com
Server: norway.EU.net
Address: 193.71.1.2

*** norway.EU.net can't find ix.net.com.com: Non-existent domain

eunet% nslookup ix.netcom.com
Server: norway.EU.net
Address: 193.71.1.2

Non-authoritative answer:
Name: ix.netcom.com
Address: 199.182.120.2

```
=====
| Per Molund - Systems Engineer      | Email: per@proact.no      |
| ProAct Systems AS                 | Phone: +47 22 72 45 90    |
| Po box 334, Økern                 | Fax: +47 22 72 45 95     |
| Østre Aker vei 24B                | Privat: +47 63 90 76 95   |
| N-0511 Oslo                      | GSM: +47 92 02 15 01     |
| Norway                           | Pager: +47 96 50 05 74   |
=====
```

629. Re: 20 meter GATES

From: "Jerry" <jerdptro@xnet.com>
Date: Thu, 30 Nov 1995 05:37:02 +0000
To: aprssig@tapr.org
Message-ID: <199511301131.FAA03909@flood.xnet.com>
Rendered body type: text/plain

Good morning:

Currently I am one of two gates in the chicagoland area. I am
wondering if anyone on the SIG is interested in or is running a 20 or
40 meter gate. I would be very interested in putting my gate on
either of those 2 bands for purposes of testing the reliability of
those links. Anyone interested in putting gates on those bands
please let me know. We would use the suggested freqs for APRS.

Thanks
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

630. 100K maps

From: ke4eer@ro.com (William Nolle)
Date: Thu, 30 Nov 1995 06:51:43

To: aprssig@tapr.org
Message-ID: <199511301359.HAA30173@sh1.ro.com>
Rendered body type: text/plain

I have just posted ALMAPS07.ZIP on Tapr with a new README.ALA for those of you that like maps Hi. The file is getting pretty large, in fact it's now larger than the full version of APRS74b.zip. This mapmaking is getting to be addictive i think i'm always looking for new Towns and City's to do. Everytime i see a new user pop up on the map i make a 100K map for his area.

That brings me to another topic. How APRS has grown in this area. It was not all that long ago that some older ham's (Excluding me) in this area where saying APRS will never get off the ground, Bob you remember that time). Last night i counted users on my map and counted 54, and now for the first time i see some users around Amory, MS showing up, they already installed a Digi, so that means another state to start making maps for Hi, i really have already started doing that. It's strange but i have looked up till now and have not seen any users or maps for that state at all, if i'm wrong about that i would sure like to hear about it. Happy APRS'ing

Bill KE4EER
ke4eer@ro.com

631. Re: [APRSSIG:4741] Re:

From: mwalker@interlog.com (Mike Walker)
Date: Thu, 30 Nov 95 08:04:08 EST
To: aprssig@tapr.org
Message-ID: <199511301304.IAA21429@gold.interlog.com>
Rendered body type: text/plain

I'm a dealer and both Companies provide similar support. Kantronics outsell AEA by about 10:1 at this time. Kantronics have a better record of getting back to customers than AEA, but both will handle the easy problems right away. The AEA GPS software is not quite as versatile as the Kantronics software. Both do the job, but the Kantronics allow you to have up to 4 uproto paths which is handy as you can set up a wide, wide and a relay, wide.

just my 2 cents worth

On Wed, 29 Nov 1995 18:27:14 -0600 (CST) you wrote:

>At 01:15 PM 11/29/95 -0600, John B. Leonard wrote:
>>
>>Ok, let me tell y'all about MY experience with Kantronics...
>>
>>So, my experience with Kantronics, the KPC-3, and the manual (I like it) has
>>been positive.
>
>That's all well and good, but try asking them a TECHNICAL question, not a
>parts order question. Like, "what does this feature do, I'd like to know
>before I plunk my \$\$ down..." or "does the KPC-3 allow GPS timesetting in
>GMT or local time?"
>
>Ask ?'s like these and you'll get an "idunno."
>
>Also, have you looked at another manufacturer's manual, like AEA? The
>Kantronics manual leaves a lot to be desired, especially for the novice, and
>hey, the KPC-3 is supposed to be an entry level TNC. Not to mention their
>TNC wiring diagram for Yaesu HT's won't work with the FT11R, 41R, 51R.
>
>I do a lot of technical writing (I work for a Environmental Consulting Firm)
>and I could do better.
>
>>
>>Now let me tell you a horror story about MFJ....
>>
> Please do.
>
>
>Mark Fellhauer
>KC7BXS
>sparkfel@primenet.com
>
>
>

Mike Walker
127 High St. W.

mwalker@interlog.com
rf: va3mw@va3bbs

632. 20/40 gates

From: mchale@zk3.dec.com
Date: Thu, 30 Nov 95 10:14:00 -0500
To: aprssig@tapr.org
Cc: mchale@zk3.dec.com
Message-ID: <9511301514.AA04592@nm1w.zk3.dec.com>
Rendered body type: text/plain

Hi Jerry,
I got on 20m this past weekend with kb6lfm (i think that was the call); he was in san francisco, i'm in southern nh; we were on 14.0963 USB; The link was pretty good while the band held up and I encountered little qrm; he posted on ax25bbs looking for interested folks. a few others were on freq as well. In the past I've listened on 40m but not heard much (I think I heard n2czf once but was marginal; I run a sloper on 40m)

If you are interested in giving it a shot I'd be game;

One interesting thing about doing this, is what alias does one use? GATE? If GATE then we run the risk of hitting the 30m GATES as well (this is what I observed with the kb6lfm tests, packets came in via 30m, 20m, and GATE at times..) As a test probably not a big deal but probably a bad idea in general.

-jim
NM1W, Southern NH

633. Re: [APRSSIG:4750] DATA RADIO OPTIONS and GPS applications

From: crpl.cedar-rapids.lib.ia.us@tapr.org (David Barrett)
Date: Thu, 30 Nov 1995 08:38:53 -0600
To: aprssig@tapr.org
Message-ID: <199511301539.JAA00718@sys1.tapr.org>
Rendered body type: text/plain

>Why not purchase a RS HT-202.
>The only disadvantage I see is not being able to use it on 9600.
>A minor problem really , dont you think ?

>Mike KD4EMI@AOL.COM
>(SOUTH FLORIDA WHERE EVERYONE'S A WIDE)

My understanding of the HT-202, is that it is a true FM radio; that being the case there's no reason why it couldn't support 9600. Just some connections to the IF and a few other's and away you go. If the radio was AFM there'd be no way.
Am I reading the schematics right or am I just deluded like normal???

[]
[] barrettd@crpl.cedar-rapids.lib.ia.us []
[] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] []

634. RE: [APRSSIG:4741] Re: Kantronics

From: Willson Flor <willf@rrgroup.com>
Date: Thu, 30 Nov 1995 09:38:18 -0600
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3951130093819AY005C00@rrgroup3>
Rendered body type: text/plain

You Wrote:

From: Mark Fellhauer [SMTP:sparkfel@primenet.com]
Sent: Wednesday, November 29, 1995 6:27PM
To: aprssig@tapr.org
Subject: [APRSSIG:4741] Re:

. Also, have you looked at another manufacturer's manual, like AEA? The
. Kantronics manual leaves a lot to be desired, especially for the novice, and
. hey, the KPC-3 is supposed to be an entry level TNC. Not to mention their
. TNC wiring diagram for Yaesu HT's won't work with the FT11R, 41R, 51R.
.
. I do a lot of technical writing (I work for a Environmental Consulting Firm)
. and I could do better.
.
.

Maybe you **should**. I have a KPC-3, and the manual isn't extremely bad (I've seen enough that are) but certainly isn't very good either. There could be a market for a well-written manual for the KPC-3, marketed as a pamphlet or small self-published book. If you have some experience with desktop publishing the costs for this aren't really too bad. If the wiring diagrams are poor (which they are in some cases) the prospect looks better. If you add some experience-related info on GPS interfacing, maybe you could interest the big ham radio retailers to carry your book, etc. If this works, use the revenue from these sales for advertising and mail-order, maybe? I don't know if this would really work out well, but it's something to consider.

.
. Mark Fellhauer
. KC7BXS
. sparkfel@primenet.com

-Will Flor
KB9JTT
willf@rrgroup.com

635. ZIP Codes Database - Reminder

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Thu, 30 Nov 1995 9:21:30 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <951130092130.20604282@exame2.dseg.ti.com>
Rendered body type: text/plain

Just a reminder. If you have not already done so, please send me your zip code and call for the ZIP Code database Bob is assembling. I'm collecting the data for him.

I have received 127 entries from the US, 6 from Canada, and 1 from Germany so far, but there must be a lot more I have not heard from yet. Let's get this database complete for Bob!

1. Send data to me personally, NOT to the entire SIG.

"chead@exame2.dseg.ti.com"

2. Put data in the subject line of your message - that's the only part of the message I will process with my ZIP code processing program!
Please use the exact format:

"ZIP zzzzz cccccc"

Where: "ZIP" is a placeholder preamble word,
"zzzzz" is your 5 digit ZIP code,
"ccccc" is your amateur call, 4 to 6 characters.

73, Claude Head
K5DTN
(214) 386-8966 home
(214) 995-5040 office
(214) 995-2231 FAX

636. RE: [APRSSIG:4750] DATA RADIO OPTIONS and GPS applications

From: Willson Flor <willf@rrgroup.com>
Date: Thu, 30 Nov 1995 09:45:24 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3951130094524AZ005C00@rrgroup3>
Rendered body type: text/plain

You wrote:

From: KD4EMI@aol.com[SMTP:KD4EMI@aol.com]
Sent: Wednesday, November 29, 1995 10:32PM
To: aprssig@tapr.org
Subject: [APRSSIG:4750] DATA RADIO OPTIONS and GPS applications

. I meant to write this a while back ago when the thread about the MFJ
. radio was active.
.
. Here are my thoughts:
.
. Why not purchase a RS HT-202.
. When they are on sale for \$99.00 its a great deal !
. You get a frequency agile rig for a low price, that is running a low duty
. cycle application. Plug in the top connector to 12VDC and your ready to

. roll.

Only if you use a *different* antenna - not the rubber duck that comes with the radio. You *might* be able to get away with low-duty-cycle activity with 5W+, but the antenna is so poor that, at least for voice, the finals frequently give out quickly after running at 5W+. This may only happen with some units, but I know several people to which this has happened. Otherwise a good radio.

.
. Mike KD4EMI@AOL.COM
. (SOUTH FLORIDA WHERE EVERYONE'S A WIDE)
.
.

-Will Flor
KB9JTT
willf@rrgroup.com

637. Re: [APRSSIG:4751] Re: E.Coast 4 alias plan

From: W2HOB@aol.com
Date: Thu, 30 Nov 1995 09:24:08 -0500
To: aprssig@tapr.org
Message-ID: <951130092407_39263356@mail06.mail.aol.com>
Rendered body type: text/plain

Regarding the cooperation needed for efficient WIDE planning using the proposed 4-Alias Plan --

you'll find it in New Jersey and Southeastern Pennsylvania. The area is small enough so that we "Network Builders" can get together and work out the kinks before they become real cramps!

I wish this could've been accomplished when the "other" packet entities (01, 03, 05, 07 etc.) were in their infancy. Planning and cooperation to implement that planning is a necessity. It can always be **UNDONE** if it didn't work but you'll never know for sure if you didn't try.

South Florida, I wish you good luck... personalities are tough to mix!

73 de Boyd
w2hob@aol.com

638. New GPS Receivers

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Thu, 30 Nov 1995 10:42:26 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <951130104226.20604282@exame2.dseg.ti.com>
Rendered body type: text/plain

Just got a new flyer from Radio Shack, their number 534 (on last page).

On page 7 of the flyer is the following announcement:

"RadioShack Unlimited brings you the Latest!

Get the latest in revolutionary technology delivered right to your front door - like the amazing new Global Positioning Systems that can pinpoint your position to within a few feet anywhere on earth! Starting as low as \$229.99."

There are tiny pictures of two different receivers, but too small to make out many details. No other information and no catalog numbers given.

Interesting - looks like the prices are coming down again! FYI.

73 Claude
K5DTN

639. Re: [APRSSIG:4753] Re: How-to...

From: KC4ZGQ@aol.com
Date: Thu, 30 Nov 1995 10:05:14 -0500
To: aprssig@tapr.org
Message-ID: <951130100513_39296754@emout04.mail.aol.com>
Rendered body type: text/plain

Yes that was the problem the gzip package I downloaded had an unziper to use with it after reading the documaeentation I discovered the -d option and it works. I did discover that the 386 version won't work with ems386. so back to mapping.

JOHN, KC4ZGQ

640. Re: [APRSSIG:4754] Re: APRSSIG backup file

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 30 Nov 1995 11:53:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951130115121.4509H-100000@greatlakes>
Rendered body type: text/plain

I will also put together an ALL WORLD APRS map. That is easy: 3 in germany, 2 in spain, 2 in england, 1 in Netherlands, 2 in Austrailia, 2 in Argentina, 1 in Brazil, 1 in France...

In fact, i wont bother with the map, I can visualize it from the above.... hi hi

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

641. ZIP 21045 KC6HUR

From: Randy Hammock <hammock@tis.telos.com>
Date: Thu, 30 Nov 1995 12:21:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.951130122051.29711A-100000@zentropa>
Rendered body type: text/plain

No APRSyet, but soon.

--

| | |
|---------------------------------------|-------------------------|
| Randy Hammock KC6HUR | Randy.Hammock@Telos.com |
| Telos Information Systems - EDOS | hammock@gmd.trw.com |
| 7474 Greenway Center Drive; Suite 400 | Voice: +1 301 507-5904 |
| Greenbelt, Maryland 20770 | FAX: +1 301 507-5892 |

642. Re: [APRSSIG:4760] Re: DATA RADIO OPTIONS and GPS applications

From: Randy Hammock <hammock@tis.telos.com>
Date: Thu, 30 Nov 1995 12:39:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.951130123729.29711D-100000@zentropa>
Rendered body type: text/plain

On Thu, 30 Nov 1995, David Barrett wrote:

> >Why not purchase a RS HT-202.
> >The only disadvantage I see is not being able to use it on 9600.
>
> My understanding of the HT-202, is that it is a true FM radio; that being
> the case there's no reason why it couldn't support 9600. Just some
> connections to the IF and a few other's and away you go. If the radio was
> AFM there'd be no way.
> Am I reading the schematics right or am I just deluded like normal???

The following was post to this SIG a while back:

>From kc5ejk@onramp.netThu Nov 30 12:27:10 1995
Date: Fri, 6 Oct 1995 13:31:42 -0500
From: Robert Winingham <kc5ejk@onramp.net>
Reply to: aprssig@tapr.org
To: aprssig@zentropa
Subject: [APRSSIG:3716] Data radio 9600 baud

I have two HTX-202 units I use for remote tracking and APRS use.
These unit put out 8+ Watts when powered by 13.5 - 14.00 Volts.
(The HXT-404 70 cm HT does only 5 Watts.)

For only \$40 more you get a radio you can tune and get a few more watts.
(Gee, it is even a back up HT)

Think about getting the Radio-Shack extended warrenty if you are going
to run it a 8 watts as a digipeater.

I also found a 9600 baud mod for the HTX-202.

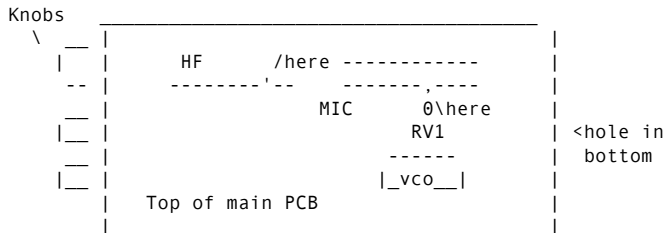
----- CONNECTIONS TO REALISTIC HTX-202 FOR 9600 BAUD PACKET

NOTE: The following operation requires soldering in very close quarters and damage or destruction of your radio is possible if you get too much heat on nearby wires or components, or by sloppy soldering.

I performed these operations on my own HTX-202 and it works OK for 9600 baud operation with my new Kantronics KPC-9612. I don't take any responsibility for invalidation of warranty or improper operation of the radio, etc.

I studied the schematics and determined the locations for making connections based on general recommendations for 9600 FSK. I didn't want to permanently deface my radio by making any holes in the case for wire penetrations, so I removed the battery and battery connector which is a plastic oval with a spring contact in it held by two screws and ran the wires out to the connector that goes to the TNC. I can restore it to original condition in just a few minutes. I used the smallest coax I had avail, I think it is RG-174. Someone may have a better idea about doing that part.

Open up the HTX-202 by removing the five screws, take off back cover, and separate front panel and lay it on bench so that flex pc cable won't be damaged.



This is a crude diagram of the inside of HTX-202 after splitting case and folding front case aside. There are several sub-PCBs standing on edge that I represented by the dashed lines. In my HTX-202 the sub-board at upper left is labeled HF and the raw output from the discriminator IC goes into pin 1, the first solder pad starting from the center of the radio. This is where I soldered a small coax and ran it out the hole in bottom of case. This is Receive Audio into TNC.

The sub-board labeled MIC is microphone audio to modulator varicap. Pin 6 here goes directly into the VCO and this is where I soldered a second coax. The solder pad 6th pin from center of radio is right next to the RV1 deviation pot. (Dont melt the pot.) This is Transmit Audio from TNC.

The third connection, PTT, is harder to describe the actual point. What I did was flip the radio over and used a ohm meter to locate the solder trace from the center pin contact of external mike socket. It runs from just below mike socket to a small SMD resistor. I soldered a 2k resistor here and ran a tiny wire from other end of it, along the side of radio and out a slot in case where the cover wouldn't pinch it, and through the hole in the bottom.

The radio now has to be operated by a power supply, since the battery contact is gone and the wires are coming out the hole in the bottom. I lengthened the power wire that was removed from the contact and connected it to the same power supply as my TNC. The coax and PTT wires go to the DB15 connector for the KPC-9612. I used the coax shield for RX Audio as the ground connection, but left the TX Audio shield un-grounded at the DB15.

I am still in the process of evaluating how well this works on 9600 baud packet. There are very few VHF 9600 baud stations near me (only one, in fact) but hopefully in the future this will change. Good luck, and I welcome any feedback about this.....

Gene, WA4WBI

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

--

| | |
|---------------------------------------|-------------------------|
| Randy Hammock KC6HUR | Randy.Hammock@Telos.com |
| Telos Information Systems - EDOS | hammock@gmd.trw.com |
| 7474 Greenway Center Drive; Suite 400 | Voice: +1 301 507-5904 |
| Greenbelt, Maryland 20770 | FAX: +1 301 507-5892 |

643. Re: [APRSSIG:4759] 20/40 gates

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Thu, 30 Nov 1995 09:53:19 -0800
To: aprssig@tapr.org
Message-ID: <199511301753.JAA27937@ix4.ix.netcom.com>
Rendered body type: text/plain

It would also be nice to come up with a designated 10m frequency before the band opens again. Packet on 10 meters is kind of fun - you can run 1200 baud FSK using a standard TNC and decent SSB radio. We should see some pretty reliable coast to coast paths open up on a daily basis when conditions improve. 1200 baud mobile HF operation should be quite feasible as well.

Jack

644. Re: [APRSSIG:4750] DATA RADIO OPTIONS

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 30 Nov 1995 12:12:31 -0600
To: aprssig@tapr.org
Message-ID: <v02130501ace3a122d873@[199.1.11.196]>
Rendered body type: text/plain

>>I meant to write this a while back ago when the thread about the MFJ
>>radio was active.
>>Why not purchase a RS HT-202.

I use two HTX202 for KPC-3 tracker amd one HTX-404
The 202 will put out 8 to 9 Watts on 13.5 Volt for up to 5 Years
.... With a service contract :-)

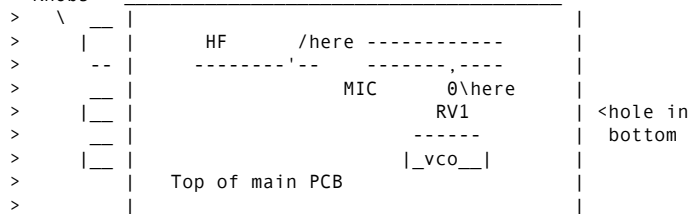
>The only disadvantage I see is not being able to use it on 9600.
>A minor problem really , dont you think ?

And the 9600 baud Answer is !!!!!!

> To Bob KC5EJK Dallas
> From "Steven M. Palm" <smp@agape.sol.net>
> Hi Bob (and all other lurkers)
>
> Found a mod for 9600, a local guy tested it and said it works fine
> for him, using the HTX-202 for both 9600 and 1200 packet!
>
> ----->8 cut here 8<-----
>
>CONNECTIONS TO REALISTIC HTX-202 FOR 9600 BAUD PACKET
>
>NOTE: The following operation requires soldering in very close quarters
>and damage or destruction of your radio is possible if you get too much
>heat on nearby wires or components, or by sloppy soldering.
>
>I performed these operations on my own HTX-202 and it works OK for
>9600 baud operation with my new Kantronics KPC-9612. I don't take any
>responsibility for invalidation of warranty or improper operation of the
>radio, etc.
>
>I studied the schematics and determined the locations for making
>connections based on general recommendations for 9600 FSK. I didn't
>want to permanently deface my radio by making any holes in the case for
>wire penetrations, so I removed the battery and battery connector which
>is a plastic oval with a spring contact in it held by two screws and ran
>the wires out to the connector that goes to the TNC. I can restore it
>to original condition in just a few minutes. I used the smallest coax I
>had avail, I think it is RG-174. Someone may have a better idea about
>doing that part.
>

>Open up the HTX-202 by removing the five screws, take off back cover,
>and separate front panel and lay it on bench so that flex pc cable won't
>be damaged.

> Knobs



>This is a crude diagram of the inside of HTX-202 after splitting
>case and folding front case aside. There are several sub-PCBs
>standing on edge that I represented by the dashed lines. In my HTX-202
>the sub-board at upper left is labeled HF and the raw output from the
>discriminator IC goes into pin 1, the first solder pad starting from
>the center of the radio. This is where I soldered a small coax and ran
>it out the hole in bottom of case. This is Receive Audio into TNC.

>The sub-board labeled MIC is microphone audio to modulator varicap.
>Pin 6 here goes directly into the VCO and this is where I soldered a
>second coax. The solder pad 6th pin from center of radio is right next
>to the RV1 deviation pot. (Dont melt the pot.) This is Transmit Audio
>from TNC.

>The third connection, PTT, is harder to describe the actual point.
>What I did was flip the radio over and used a ohm meter to locate the
>solder trace from the center pin contact of external mike socket. It
>runs from just below mike socket to a small SMD resistor. I soldered
>a 2k resistor here and ran a tiny wire from other end of it, along the
>side of radio and out a slot in case where the cover wouldn't pinch
>it, and through the hole in the bottom.

>The radio now has to be operated by a power supply, since the
>battery contact is gone and the wires are coming out the hole in the
>bottom. I lengthened the power wire that was removed from the contact
>and connected it to the same power supply as my TNC. The coax and PTT
>wires go to the DB15 connector for the KPC-9612. I used the coax shield
>for RX Audio as the ground connection, but left the TX Audio shield
>un-grounded at the DB15.

>I am still in the process of evaluating how well this works on 9600
>baud packet. There are very few VHF 9600 baud stations near me (only
>one, in fact) but hopefully in the future this will change.
>Good luck, and I welcome any feedback about this.....

>Gene, WA4WBI

Your other question

>SOMETIMES (according to my GPS screen) get 45 feet accuracy..(SOMETIMES)

The real accuracy is only as good as the input data and SA controls that.

I can't always find my car in the parking lot but my Garmin-45 can
find the parking lot :-)

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

645. Re: [APRSSIG:4765] New GPS Receivers

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Thu, 30 Nov 1995 11:19:01 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199511301819.LAA08206@usr5.primenet.com>
Rendered body type: text/plain

At 10:54 AM 11/30/95 -0600, Claude 995-5040 pager 4541 wrote:

>Just got a new flyer from Radio Shack, their number 534 (on last page).

>

>On page 7 of the flyer is the following announcement:

>
> "RadioShack Unlimited brings you the Latest!"
>

The GPS' in the picture sure looked like Magellans to me, if I recall correctly, but it has been over a week since I looked at the ad. Now all they need to do is market a TNC...

It seems that RS is going to market a lot of NON-RS products now, from TV's to computers, to night vision. They don't even seem to be taking the pretense of putting their name on them either. I guess since Tandy runs Incredible Universe & Computer City, too, this makes sense.

Mark Fellhauer
KC7BXS
sparkfel@primenet.com

646. Re: [APRSSIG:4762] ZIP Codes Database - Reminder

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 30 Nov 1995 12:20:23 -0600
To: aprssig@tapr.org
Cc: chead@exam2.dseg.ti.com
Message-ID: <v02130502ace3a522c90d@[199.1.11.128]>
Rendered body type: text/plain

It might help if APRS users that are outside the USA sent their Grid sq. to Claude. I don't want to make his work any harder but I also would like to know where the sig users are. A 6 digit grid sq might even be closer than a zip-code.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

647. ZIP-SIG.HST

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 30 Nov 1995 14:00:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951130135219.8084A-100000@greatlakes>
Rendered body type: text/plain

Here is the track history file of everyone on the sig for which we have ZIP codes. The following user's zips did not match the database and are not shown. If these users send their LAT/LONG of the center of their ZIP codes to me WB4APR, I will update my ZIP database...

ZIPS NOT matched:
24551 W4WWQ
93555 K6UUR
94404 W7KKE
94712 N6FRI
96706 WH6YC
97391 N7LVK
97394 W6TCA and W7BFX

For people that have not yet responded with their ZIP and call, send them to Claude as noted in the other messages...

CUT HERE AND SAVE AS ZIP-SIG.HST in your HSTS directory -----

| | | | | |
|----------|--------|---------------|----------|-----------|
| N1CPE | 301440 | @301440/4218. | N/ 7125. | W-APRSSIG |
| N1JDU | 301440 | @301440/4225. | N/ 713.. | W-APRSSIG |
| WA1YKN | 301440 | @301440/4137. | N/ 7022. | W-APRSSIG |
| NM1W | 301440 | @301440/4252. | N/ 7110. | W-APRSSIG |
| WA1LOU | 301440 | @301440/4135. | N/ 7258. | W-APRSSIG |
| KD1LY | 301440 | @301440/414.. | N/ 7328. | W-APRSSIG |
| W2HOB | 301440 | @301440/403.. | N/ 7450. | W-APRSSIG |
| W2HOB-15 | 301440 | @301440/3957. | N/ 7440. | W-APRSSIG |
| WA2TXV | 301440 | @301440/4039. | N/ 7453. | W-APRSSIG |
| WU2Z | 301440 | @301440/4027. | N/ 7428. | W-APRSSIG |
| G3ZFJ | 301440 | @301440/4043. | N/ 734.. | W-APRSSIG |
| W2ICZ | 301440 | @301440/4255. | N/ 7845. | W-APRSSIG |
| N3EOY | 301440 | @301440/4154. | N/ 8018. | W-APRSSIG |
| WB3KGT | 301440 | @301440/4157. | N/ 7958. | W-APRSSIG |
| WM3L | 301440 | @301440/4125. | N/ 7539. | W-APRSSIG |
| WB3IHY | 301440 | @301440/403.. | N/ 754.. | W-APRSSIG |
| WA3FYZ | 301440 | @301440/397.. | N/ 7651. | W-APRSSIG |
| N3OZB | 301440 | @301440/394.. | N/ 7633. | W-APRSSIG |
| N4ULS | 301440 | @301440/3855. | N/ 7715. | W-APRSSIG |
| N4PGS | 301440 | @301440/383.. | N/ 7829. | W-APRSSIG |

| | | | | | |
|----------|--------|---------------|----|--------|-----------|
| K4LMY | 301440 | @301440/3721. | N/ | 7754. | W-APRSSIG |
| N4WZR | 301440 | @301440/3646. | N/ | 764.. | W-APRSSIG |
| WB4PAN | 301440 | @301440/3637. | N/ | 80.6. | W-APRSSIG |
| KB4MPX | 301440 | @301440/3721. | N/ | 7912. | W-APRSSIG |
| WA4RTS | 301440 | @301440/3725. | N/ | 7912. | W-APRSSIG |
| WA4BWB | 301440 | @301440/3724. | N/ | 797.. | W-APRSSIG |
| K4EUK | 301440 | @301440/3719. | N/ | 7931. | W-APRSSIG |
| N4DBX | 301440 | @301440/3636. | N/ | 7923. | W-APRSSIG |
| AC4RC | 301440 | @301440/3721. | N/ | 7916. | W-APRSSIG |
| KA4YNO | 301440 | @301440/3721. | N/ | 7923. | W-APRSSIG |
| N4QWF | 301440 | @301440/3730. | N/ | 7910. | W-APRSSIG |
| W4DGE | 301440 | @301440/366.. | N/ | 7952. | W-APRSSIG |
| KQ4MS | 301440 | @301440/3549. | N/ | 7834. | W-APRSSIG |
| KE4LUO | 301440 | @301440/350. | N/ | 8112. | W-APRSSIG |
| W8KJM | 301440 | @301440/3352. | N/ | 846.. | W-APRSSIG |
| WB4DPT | 301440 | @301440/3351. | N/ | 8424. | W-APRSSIG |
| KM4HY | 301440 | @301440/3357. | N/ | 8325. | W-APRSSIG |
| KC4ZGQ | 301440 | @301440/3250. | N/ | 8340. | W-APRSSIG |
| WB2NGZ | 301440 | @301440/296.. | N/ | 8058. | W-APRSSIG |
| K04HD | 301440 | @301440/2439. | N/ | 8127. | W-APRSSIG |
| KB4XE | 301440 | @301440/2615. | N/ | 8015. | W-APRSSIG |
| KF4DBI | 301440 | @301440/2618. | N/ | 8010. | W-APRSSIG |
| K04HD-2 | 301440 | @301440/2543. | N/ | 8018. | W-APRSSIG |
| KE4CGR | 301440 | @301440/2655. | N/ | 806.. | W-APRSSIG |
| N2CZF | 301440 | @301440/2655. | N/ | 8012. | W-APRSSIG |
| KE4RVP | 301440 | @301440/2757. | N/ | 8152. | W-APRSSIG |
| KA3DBK | 301440 | @301440/2758. | N/ | 8244. | W-APRSSIG |
| N4NR | 301440 | @301440/3318. | N/ | 8648. | W-APRSSIG |
| KE4EER | 301440 | @301440/3457. | N/ | 8634. | W-APRSSIG |
| KQ4TV | 301440 | @301440/3610. | N/ | 8636. | W-APRSSIG |
| N4PUQ | 301440 | @301440/361.. | N/ | 8419. | W-APRSSIG |
| WA4DOR | 301440 | @301440/3511. | N/ | 8951. | W-APRSSIG |
| KB8JXO | 301440 | @301440/3956. | N/ | 8258. | W-APRSSIG |
| N8DTY | 301440 | @301440/3957. | N/ | 8255. | W-APRSSIG |
| N8TBO | 301440 | @301440/403.. | N/ | 831.. | W-APRSSIG |
| KK4PM | 301440 | @301440/4123. | N/ | 820. | W-APRSSIG |
| AG9V | 301440 | @301440/3937. | N/ | 844.. | W-APRSSIG |
| AA8JK-10 | 301440 | @301440/3937. | N/ | 8415. | W-APRSSIG |
| AA8JK | 301440 | @301440/3945. | N/ | 846.. | W-APRSSIG |
| N80ON | 301440 | @301440/4713. | N/ | 8827. | W-APRSSIG |
| WB0WNX | 301440 | @301440/4231. | N/ | 9622. | W-APRSSIG |
| NM0B | 301440 | @301440/4156. | N/ | 9140. | W-APRSSIG |
| N9UNR | 301440 | @301440/4325. | N/ | 8810. | W-APRSSIG |
| KB9JTT | 301440 | @301440/4258. | N/ | 889.. | W-APRSSIG |
| N9WSZ | 301440 | @301440/436.. | N/ | 882.. | W-APRSSIG |
| N00KW | 301440 | @301440/45.6. | N/ | 939.. | W-APRSSIG |
| WA2VOI | 301440 | @301440/45.6. | N/ | 9314. | W-APRSSIG |
| WA0LPV | 301440 | @301440/4755. | N/ | 97.6. | W-APRSSIG |
| N0NGW | 301440 | @301440/4755. | N/ | 974.. | W-APRSSIG |
| WD9ABE | 301440 | @301440/4211. | N/ | 883.. | W-APRSSIG |
| KB9LIN | 301440 | @301440/4215. | N/ | 887.. | W-APRSSIG |
| N9VHW | 301440 | @301440/421.. | N/ | 889.. | W-APRSSIG |
| N9VJQ | 301440 | @301440/4155. | N/ | 8844. | W-APRSSIG |
| N9WMM | 301440 | @301440/4137. | N/ | 8743. | W-APRSSIG |
| N9LCI | 301440 | @301440/4145. | N/ | 8821. | W-APRSSIG |
| W9RI | 301440 | @301440/4128. | N/ | 9033. | W-APRSSIG |
| NX9M | 301440 | @301440/4028. | N/ | 8858. | W-APRSSIG |
| K9ORP | 301440 | @301440/4036. | N/ | 8859. | W-APRSSIG |
| K9CYW | 301440 | @301440/4030. | N/ | 8858. | W-APRSSIG |
| N0ILB | 301440 | @301440/3834. | N/ | 9214. | W-APRSSIG |
| WB5TKC | 301440 | @301440/3016. | N/ | 8946. | W-APRSSIG |
| KC5HTN | 301440 | @301440/3257. | N/ | 9639. | W-APRSSIG |
| KC5EJK | 301440 | @301440/3249. | N/ | 9646. | W-APRSSIG |
| K5DTN | 301440 | @301440/3255. | N/ | 9647. | W-APRSSIG |
| WB5QLD | 301440 | @301440/3251. | N/ | 9710. | W-APRSSIG |
| WA5YVC | 301440 | @301440/3245. | N/ | 9719. | W-APRSSIG |
| WB3FYV | 301440 | @301440/3240. | N/ | 9728. | W-APRSSIG |
| KC5HHN | 301440 | @301440/3037. | N/ | 9622. | W-APRSSIG |
| N5RNE | 301440 | @301440/3025. | N/ | 9742. | W-APRSSIG |
| WA5LHS | 301440 | @301440/3012. | N/ | 9748. | W-APRSSIG |
| AB5GE | 301440 | @301440/3336. | N/ | 10148. | W-APRSSIG |
| KB1TX | 301440 | @301440/3937. | N/ | 10447. | W-APRSSIG |
| KC7NXD | 301440 | @301440/4110. | N/ | 1122.. | W-APRSSIG |
| KC7CO | 301440 | @301440/4034. | N/ | 11149. | W-APRSSIG |
| WB6NGC | 301440 | @301440/347.. | N/ | 1189.. | W-APRSSIG |
| KK6IB | 301440 | @301440/3312. | N/ | 11721. | W-APRSSIG |
| WA2VFN | 301440 | @301440/331.. | N/ | 11651. | W-APRSSIG |
| KB6FAS | 301440 | @301440/3330. | N/ | 11739. | W-APRSSIG |
| WB6HAG | 301440 | @301440/3343. | N/ | 11754. | W-APRSSIG |

| | | | | |
|--------|--------|---------------|----------|-----------|
| KC6UTH | 301440 | @301440/3537. | N/11740. | W-APRSSIG |
| AC6JA | 301440 | @301440/3733. | N/12215. | W-APRSSIG |
| K06JR | 301440 | @301440/3759. | N/1226.. | W-APRSSIG |
| KE6AFE | 301440 | @301440/3658. | N/12158. | W-APRSSIG |
| KA7EZO | 301440 | @301440/3836. | N/12116. | W-APRSSIG |
| WA2AGE | 301440 | @301440/397.. | N/1214.. | W-APRSSIG |
| NH6BA | 301440 | @301440/2119. | N/1581.. | W-APRSSIG |
| WH6SJ | 301440 | @301440/2119. | N/15751. | W-APRSSIG |
| N7ZKL | 301440 | @301440/4530. | N/12251. | W-APRSSIG |
| KC7CWP | 301440 | @301440/4437. | N/12355. | W-APRSSIG |
| KA6QKM | 301440 | @301440/4425. | N/1242.. | W-APRSSIG |
| KD6IEN | 301440 | @301440/4419. | N/1244.. | W-APRSSIG |

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

648. Re: [APRSSIG:4761] Re: Kantronics

From: sparkfel@primenet.com (Mark Fellhauer)
 Date: Thu, 30 Nov 1995 12:10:51 -0700 (MST)
 To: aprssig@tapr.org, aprssig@tapr.org
 Message-ID: <199511301910.MAA25255@usr3.primenet.com>
 Rendered body type: text/plain

At 09:57 AM 11/30/95 -0600, Willson Flor wrote:

>Maybe you *should*. I have a KPC-3, and the manual isn't extremely bad (I've seen enough that are) but certainly isn't very good either. There could be a market for a well-written manual for the KPC-3, marketed as a pamphlet or small self-published book. If you have some experience with desktop publishing the costs for this aren't really too bad. If the wiring diagrams are poor (which they are in some cases) the prospect looks better. If you add some experience-related info on GPS interfacing, maybe you could interest the big ham radio retailers to carry your book, etc. If this works, use the revenue from these sales for advertising and mail-order, maybe? I don't know if this would really work out well, but it's something to consider.

>-Will Flor
 >KB9JTT
 >willf@rrgroup.com
 >

I've considered it. In fact, I've given a 2 hour presentation on Packet and APRS, just recently for the ThunderBird (formerly Honeywell) ARC, here in Phoenix, and may do similar presentations for other local clubs.

Time constraints and a thorough knowledge of the publishing business (I worked for a book wholesaler for 7 years, a newspaper for 6 years, and commercial print shop for 2 years) keeps me from even wanting to go the book route. But my presentation(s) do include a lengthy self-written handout which I put together on my word-processor. A FAQ may be in order, though.

My complaints about Kantronics manuals are *relative* based on a comparison of AEA's PK-12 manual. One really can't understand until you compare the two, side-by-side.

I realize the electronics/software fields are plagued by problems and I (as well as others) have detected faults in many products and their manuals, unfortunately many companies do little to correct these faults or make the consumer aware. The Yeasu FT-51R has at least one glitch in it's firmware with 15 HZ step tuning (corrected now and free upgrades), but to my knowledge Yaesu hasn't updated any of the errors or included an errata sheet in its manuals. For instance, they make no mention that the radio has to be in duplex mode for the cross-band repeat function to work, and I know they've received HUNDREDS of inquiries about this.

I recently bought a Diamond Stealth Video card that refused to work in Windows, and I plus two computer techs couldn't make the thing work. We downloaded the new drivers from Diamond's FTP site and the thing still wouldn't work. Diamond Tech support never returned my calls. Finally after being on long distance hold for 35 minutes, I got to talk to a human there. He knew exactly what the problem was, because they'd gotten so many calls on it. Yet they HAD NOT posted this fix on their errata sheet, nor had they bothered to add the 3 or so lines of code to their install program to fix it, despite knowing of the problem for months!

I've noted and had problems industry wide, including a call to GE tech support where I got a female who read the sales brochures over the phone and could not answer technical questions, nor put me in touch with anyone who could. And I'm embarrassed to repeat some of the "technical" explanations

I've heard from Radio Shack employees, especially about Amateur Radio and antennas...including one RS regional manager who was trying to sell some poor guy a 100 inch whip antenna to ROOF MOUNT on his sedan when he came in looking for a 1/2 wave end-fed antenna for his CB. I had to walk out in disgust. This manager had no clue as to polarization or the realities of a whip that large in regards to wind-sway or parking garages.

"You got questions, we've got answers," Yup, the wrong ones.

If companies would just put some people in tech support with some technical knowledge...

Mark Fellhauer
KC7BXS
sparkfel@primenet.com

649. Re: [APRSSIG:4773] Re: ZIP Codes Database - Reminder

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 30 Nov 1995 14:12:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951130141213.8084C-100000@greatlakes>
Rendered body type: text/plain

On Thu, 30 Nov 1995, Robert Winingham wrote:

> It might help if APRS users that are outside the USA
> sent their Grid sq. to Claude. I don't want to make his work any

BINGO! Perfect idea! DE WB4APR

650. Cat-bird's Seat

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 30 Nov 1995 14:46:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951130143856.9951A-100000@greatlakes>
Rendered body type: text/plain

By now you all have the ZIP-SIG.hst and WE can see what the SIG represents. Now that I can see who I am talking to, here are some initial comments:

- 1) Known APRS activity not apparently represented on the SIG:
Central Iowa, Arizona
- 2) For WA0LPV and N0NG in North dakota, I just did a map of NE ND. Im not sure if it is in distro yet, but it will be soon!
- 3) For WM3L in PA, there are plans affoot for a BIG digi in Newmanstown at 850 feet HAAT! This will help PA immensely
- 4) Note to ALL SIG users. If you see an area near you on your local APRS maps that does not appear to be represented here on the sig, you can be the interface, and pass along anything of value that you see here on the SIG to those other locals...

Have FUN!

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

651. Re: [APRSSIG:4777] Cat-bird's Seat

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Date: Thu, 30 Nov 1995 15:25:38 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199511302125.PAA21191@crasher2.ttgciitn.com>
Rendered body type: text/plain

Thus spake Bob Bruninga, splattered hither:

> 1) Known APRS activity not apparently represented on the SIG:
> Central Iowa, Arizona

If only APRS worked under dosemu ;-)

--
---Ryan Tucker
--rtucker@ttgciitn.com
-http://www.netins.net/showcase/rtucker
TTGCITN Communications Help Desk -- need internet/unix help? help@ttgciitn.com

ttgciitn.com owner
nether.net irc administrator
netins.net user development group

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652. APRS74c.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 30 Nov 1995 19:24:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951130191852.13770A-100000@greatlakes>
Rendered body type: text/plain

Just a routine update to further streamline operations:

Ver 74c: minor tweaks

- * When stn is hooked, you see more DIGIPATH and less HEARD log
 - * Fixed CRASH on NETROM packets beginning with > found in Europe
 - * Smaller symbols eases congestion in dense areas.
 - * More helpful info on the SEND screen
 - * SEND message TO field default brings down the DIGIPATH too
 - * Band switching for PK-900 and DSP-2232 (maybe. I hope it works)
 - * REPLAY filename is kept as default for repetitive use. This is useful when viewing the ZIP-SIG.HST file. You can zoom in various areas and just hit FILE-REPLAY-ENTER to see the file again...
 - * Modified GPStoHST.bas so that it can also use RMC sentences
 - * TRACKed posit will NOT scroll off bottom of P-list if left unattended. N4UL5 told his wife to watch him all week on travel, but found that after 4 hours, his posit had been bumped off the bottom of the P-list!
 - * Telemetry page accepts new MIM module with 5 analog and 8 digital channels
- Plus it has a NMEA input for position reporting.
-

653. Re: [APRSSIG:4714] Re: APRS VHF DX

From: BenW55R@aol.com
Date: Thu, 30 Nov 1995 18:18:52 -0500
To: aprssig@tapr.org
Message-ID: <951130181845_121307015@mail06.mail.aol.com>
Rendered body type: text/plain

The network in the NW Texas, NE NM, and SW KS area is still improving. I was able to get a posit back into Amarillo TX from just south of Pueblo CO, over the TNXGIVING holiday with 5 watts while mobile. We now have 9 RELAY/WIDE nodes in the area ranging from Abilene TX to the CO border (still a few dead areas, but pretty good coverage). At the present time all nodes are on 145.01, with a few on 145.09. We are planning on putting up a 01 to 79 gate soon to take the APRS traffic off of 01 in the Amarillo Metro area (a big population of 170,000). Hope to have most areas covered by spring as I will be using APRS for storm tracking and keeping track of spotters as an ARES EC and the Panhandle SKYWARN Severe Weather Net Manager/NCS. If any one would like to see what digis we have, let me know and I'll send you the file (Bob APR, fear not I'll keep you posted). If you are traveling I-40 or US 87 thru the NW TX area, be sure to change over to 145.01 so we can see you.

73 Ben W55R DM95cf

654. Re: 4-alias digi plan

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 30 Nov 1995 21:06:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951130210453.14060A-100000@greatlakes>
Rendered body type: text/plain

On Thu, 30 Nov 1995, Jack Anderson wrote:

- > I found your 4-alias east coast digipeater proposal quite
- > interesting - here are some comments.
- > but I couldn't help asking myself, "What benefit does this
- > have over using discreet callsigns to set up the unproto path?"

Only ONE answer to that. IT GOES BOTH WAYS AT ONCE.

655. Re: [APRSSIG:4765] New GPS Rece

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Thu, 30 Nov 95 19:10:49 -0800
To: aprssig@tapr.org
Message-ID: <024DBE3001B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

Claude-

The Radio Shack add looks like it is the Magellan GPS2000 which can be purchased for less than \$200 at any Sporting Goods store or K-Mart. I suspect Radio Shack is adding \$20 to get it with their name on it.

73's de Mike, KA6SPT

656. Re: [APRSSIG:4756] Re: 20 meter GATES

From: "Walter F. Callahan" <wcallahn@coil.com>

Date: Thu, 30 Nov 1995 22:21:53 -0800

To: aprssig@tapr.org

Message-ID: <30BE9F01.54B7@coil.com>

Rendered body type: text/plain

Jerry wrote:

>

> Good morning:

>

> Currently I am one of two gates in the chicagoland area. I am
> wondering if anyone on the SIG is interested in or is running a 20 or
> 40 meter gate. I would be very interested in putting my gate on
> either of those 2 bands for purposes of testing the reliability of
> those links. Anyone interested in putting gates on those bands
> please let me know. We would use the suggested freqs for APRS.

>

> Thanks

> Jerry Di Pietro

> N9VHW

> Streamwood, IL

> jerdptro@xnet.com I have been listening on 20 and 40 meters for a gate myself with no luck
thus far. Since I don't have a rig and antenna for 30 meter, I am
interested in doing this. What freq do you want to use. Thanks.

Walter Callahan

N8DTY

Columbus, Oh

wcallahn@coil.com

657. Re: [APRSSIG:4711] E.Coast 4 alias plan

From: moyers@ibm.net

Date: Thu, 30 Nov 95 22:13:04 +0000

To: aprssig@tapr.org

Message-ID: <9512010640.AA0029@slip166-72-241-98.tn.us.ibm.net>

Rendered body type: text/plain

> DIGIS: BWB? TFZ HDL APR1 APR11 IPH15 HOB15 JNF4 RHN15 GTT15 MNS
> ALIAS1: R R R R R R R R R R R
> ALIAS2: W W W W W W W W W W W
> ALIAS3: NET1 NET2 NET3 NET4 NET1 NET2 NET3 NET4 NET1 NET2 NET3
> ALIAS4: LNK1 LNK2 LNK3 LNK4 LNK5 LNK6 LNK1 LNK2 LNK3 LNK4 LNK5

>

> Notice that the NET aliases repeat every 4 digis and the LNK aliases
> repeat every 6 digis. To see how this works, imagine you are in the
> vicinity of IPH15 digipeater. If you transmit via R,W,NET3,LNK3,NET2
> then your packets would go all the way out to GTT in Connecticut and
> down south to TFZ, WITHOUT A SINGLE DUPE!

Ok, is it SAFE to ASSUME that each digi ONLY HEARS its immediate neighbor in this string?? Of course if that is the case then the string mentioned above doesn't work. So it appears the APR11 can be heard by IPH15, APR1, and HDL. The same must hold true for the other direction (for HOB15). Ok now Bob for this method to work with a growing system, set up some more rows so that each node is heard by 4 other nodes. Meaning create your coverage scheme so that you can work the same distance in ALL directions with out dupes. I believe that was you ORIGINAL CHALLENGE. With your current plan you are still only addressing the LINEAR coverage. I must admit though Its not a bad plan. It does kinda look like my original suggestion of State, Regional, and Local ALIAS scheme though. Considering that most states are already divided into 4 regions by the PBBS H-routing scheme.

>

> The user could even add a WIDE at the end and only have one dupe for
> even greater coverage!

>

YEP I Concur, SHOTGUN AT THE END.

> PS: There is a plan for a digi in East Central PA on the mountains,
> (at Temple Univ) so this should be a BIG boon for us. But it is also
> our first major digi that is NOT in the linear line of the existing net.

> Once we see what all it hears, it will be a challenge to figure out how
> to use its aliases...

This may add some real interesting aspects to it....grin.
Not to mention the fun band openings when, the Nets and Links don't fall into the proper sequence.

This brings up another question. How far down into VA towards the KY,TN,NC borders does the network up there come? I may have another twist to this.

73

John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

658. COM-BUFFER-OVERRUN errors

From: moyers@ibm.net
Date: Thu, 30 Nov 95 22:40:03 +0000
To: aprssig@tapr.org
Message-ID: <9512010649.AA0030@slip166-72-241-98.tn.us.ibm.net>
Rendered body type: text/plain

I seem to be getting Comm-Buffer-Overflow errors anytime I am typing comments to another station while running in WX station mode. This also seems to be happening while in a command window after exiting from the command. The only way I have found to correct the error so far is to unplug the WX station cable and then plug it back in, thus clearing the overrun. Both of my comports run 16550 (buffered) uarts and I don't have this problem with FBB running 3 comm ports at 9600 baud. For awhile I thought it may have been the a conflict with the OS. However I have now tested it under DOS 6.22, OS\2 v3.0, and WFWG 3.11, all having the same results under the same conditions. I am now wondering if APRS is trying to access BOTH comms 1 and 2 at the same time and thereby creating the lockup. ANYBODY HAVE ANY IDEAS?? Having to cycle the plug on the WX station after every return when keyboarding is getting OLD REAL QUICK.

John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

659. Re: [APRSSIG:4745] Re: GPS simultaneous parallel tracking

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 30 Nov 1995 18:00:18 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511301700.B28768-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I'd sure hate to make an IFR approach with a navigation instrument having 300 ft or more error. Runways are just not that wide.

GPS will never be IFR certified as long as they have the built in error.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Wed, 29 Nov 1995 n2czf@gate.net wrote:

> As far as FAA approval on GPS units this is true, it is true for any electronics
> used on aircraft if it is used for primary operations and if it is used for IFR
> flying. A GPS unit is not required by any means to operate an aircraft as you
> well know but private pilots are buying them up as a supplement to their regular
> nav tools as in charts, and sight.
> 73's De Rich N2CZF
> n2czf@gate.net
> Jupiter Farms Florida

660. Re: [APRSSIG:4687] Re: I'm missing something?

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Thu, 30 Nov 1995 23:17:01 -3000 (CST)
To: aprssig@tapr.org
Message-ID: <199512010517.XAA04047@solar.cs.tamu.edu>
Rendered body type: text/plain

John Vaughn sez:

>
>
> Hi, Gerry. Just wondering who "we" is that does maps for TxDOT?
> And, could I get a look at some? Anywhere near Houston?

"We" is the Mapping Sciences laboratory at Texas A&M. I'll have to see what we have available, and in what formats. So far, I've had little enough luck converting ARC-Info-generated DLGs to make APRS maps successfully... We're gonna try .GRAs tomorrow!

73, gerry
gerry@cs.tamu.edu

December 1995

Original source file: aprssig.9512

Source: <https://archive.org/details/tapr-1997>

Recovered from: https://archive.org/download/TAPR-APRS_1995-12/TAPR-APRS_1995-12.txt

1. Re: [APRSSIG:4699] Re: QST Patch Antenna

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 30 Nov 1995 23:53:54 -3000 (CST)
To: aprssig@tapr.org
Message-ID: <199512010553.XAA04636@solar.cs.tamu.edu>
Rendered body type: text/plain

just as a point of reference, and completely off the top of my head, RG-58 is worth about 1 dB of loss per foot, and RG-174 about 2.4 dB.

I use 18 inches of RG-174 on the cow boxes, with a passive antenna. Works real good there!

73, gerry N5JXS
gerry@cs.tamu.edu

2. APRS growth in central Florida

From: STEALTHiAM@aol.com
Date: Fri, 1 Dec 1995 01:09:21 -0500
To: aprssig@tapr.org
Message-ID: <951201010920_62071452@mail04.mail.aol.com>
Rendered body type: text/plain

If you are in the central Florida area, there is APRS activity growing every day. We in Polk County just got a WIDE area digi on the air that linked the Tampa Bay area with Orlando. The same digi will connect the south east coast as well on most nights. Also, we have a new GATE station here in Polk.

3. Re: [APRSSIG:4786] Re: GPS simultaneous parallel tracking

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 1 Dec 1995 00:29:20 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512010629.AAA05179@solar.cs.tamu.edu>
Rendered body type: text/plain

William Manley sez:

>

> I'd sure hate to make an IFR approach with a navigation instrument having
> 300 ft or more error. Runways are just not that wide.

My Garmin GPS-55AVD and I go everywhere together. I'd not think of trying to make a trip without it. Oh, and when I've correlated it to my instrument approaches, it's always gotten me to the end of the runway... just where it should be.

> GPS will never be IFR certified as long as they have the built in error.

'Scuse me? Care to meet TSO-C-129? that's the spec for approving GPS receivers as primary navigation devices for enroute and approach operations. And there are several out there who already meet the criteria. In my opinion, the spec is at least a little too strict!

The FAA has let contracts for their "Wide Area Augmentation System" which, to us mortals, is DGPS in one form or another. If I understand the latest system, it'll use pseudolites, and that means a whole bunch of the GPS receivers available today will see the "birds" and just operate. With no dither, and little error.

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

4. Re: [APRSSIG:4743] CD ROM Maps & APRS

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 30 Nov 1995 17:56:05 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9511301715.A28768-0100000@bcfreenet.seflin.lib.fl.us>

Rendered body type: text/plain

Precision Mapping is also provided for windows on a single CDROM. I have found the manual lat/lon feature more beneficial for making local maps than the stuff I've managed to dl from USGS or any of the maps I've seen constructed from empirical GPS data.

The Precision Mapping data is derived from, and has the same accuracy, as the USGS data. In addition, for S. FL., it is more up-to-date than the dl'd info from edcftgp.cr.usgs.gov. Also, the data points from the dl'd service seem to be somewhat confusing. For example I've found road tracks which overlay one another, but with different feature addresses. Also they all come out a drab grey. Finally I suggest that 1 mile maps are an overkill. Generally motorists travel on highways rather than local roads. My observations suggest that, for S. FL., 32 to 64 mile maps are more usefull. (I do use a 8 mile map for my locality... derived from PM.)

I've found that the data derived from GPS tracking sometimes fails to match the Precision Mapping data. On one occasion, a GPS receiver parked in my driveway indicated my house to be 0.1 mile away! I suggest that gross accuracy doesn't justify a 1 mile scaled map.

Finally creating the maps from scratch, assisted by PM, is more entertaining than patching the faults found by either of the other two methods.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Wed, 29 Nov 1995, Bob Baltz wrote:

```
> Precision Mapping offers a two CD set of maps of the US. I have used them
>
> Bob Baltz *
> Chesapeake Region Sales *
> Ph:(410) 987- 8777 *
> Fax: (410) 987-4489 *
> E-mail bob.baltz@ustc.vlsi.com *
```

5. Re: [APRSSIG:4778] Re: Cat-bird's Seat

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Fri, 1 Dec 1995 09:17:00 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9512010817.AA02970@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

Ryan Tucker writes:

```
>
> Thus spake Bob Bruninga, splattered hither:
> > 1) Known APRS activity not apparently represented on the SIG:
> > Central Iowa, Arizona
>
> If only APRS worked under dosemu ;-)
```

That's not APRS' fault, as standard QBASIC doesn't even run under dosemu (exact same failure)! I think the Linux folks are working on it. They at least know about it.

Meanwhile, a Linux/XFree86 version of APRS is rumored to be being considered by the MAC-APRS/Windows brothers. Now *that* would be great!

Is there any demographical info. on APRS users with regards to what O/S they typically use?

--Shannon, DL6SEU

6. Re: [APRSSIG:4786] Re: GPS simultaneous parallel tracking

From: mwalker@interlog.com (Mike Walker)
Date: Fri, 01 Dec 95 08:07:48 EST
To: aprssig@tapr.org
Message-ID: <199512011307.IAA03559@gold.interlog.com>
Rendered body type: text/plain

I can't imagine anyone attempting an approach with a GPS! That's way they have the localizer and glideslope.

On Thu, 30 Nov 1995 23:04:30 -0600 (CST) you wrote:

```
>I'd sure hate to make an IFR approach with a navigation instrument having
>300 ft or more error. Runways are just not that wide.
>
>GPS will never be IFR certified as long as they have the built in error.
>
>
>William Manley
>z002594b@bcfreenet.seflin.lib.fl.us
>
>
>On Wed, 29 Nov 1995 n2czf@gate.net wrote:
>
>> As far as FAA approval on GPS units this is true, it is true for any electronics
>> used on aircraft if it is used for primary operations and if it is used for IFR
>> flying. A GPS unit is not required by any means to operate an aircraft as you
>> well know but private pilots are buying them up as a supplement to their regular
>> nav tools as in charts, and sight.
>> 73's De Rich N2CZF
>> n2czf@gate.net
>> Jupiter Farms Florida
>
>
>
```

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

7. RE: DOSEMU

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Fri, 1 Dec 95 8:10:21 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.817823421.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

Ryan Tucker Wrote:

>If only APRS worked under dosemu ;-)

MacAPRS works under MAE, Macintosh Application Environment which is available for a few different UNIX Work Stations such as SUN and HP and I think a couple others..

| | |
|---------------------------------------|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

8. Re: [APRSSIG:4785] COM-BUFFER-OVERRUN errors

From: W2H0B@aol.com
Date: Fri, 1 Dec 1995 08:32:49 -0500
To: aprssig@tapr.org
Message-ID: <951201083248_121922788@emout04.mail.aol.com>
Rendered body type: text/plain

Hello... this is for the fellow who wrote about experiencing Comm Buffer Overflows... sorry, I forgot his name/address:

I run APRS 7.4C with a TNC (tried KPC-3 and MFJ-1270B and C) on COM1: with an Ultimeter-II on COM2: of a kludged-together '286 and have never experienced a COMM-BUFFER-OVERFLOW while active at the keyboard with program manipulation or messaging with another station.

I have seen that "error" SOMETIMES but only while booting up but it quickly disappears within seconds when everything settles in. I think my old junk-box '286 runs at 6 or 8-MHz MAYBE... certainly no faster than 10-MHz.

The U-II talks to the computer at 2400-b/s while the TNC communicates at 9600-b/s. I have APRS go get a WX string every 15-seconds which you can see

in the blue box at the top-middle of the display. It beacons that weather every 5-min and all the while frames are being monitored and displayed at the bottom.

This has worked this way way back several versions. Good luck... I hope I have explained my configuration well enough for you to "stare-and-compare" how yours is configured compared to mine... helps sometime!

73 de Boyd, W2HOB@aol.com

9. Re: [APRSSIG:4786] Re: GPS simultaneous parallel tracking

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Fri, 01 Dec 1995 07:36:46 -0600
To: aprssig@tapr.org
Message-ID: <199512011337.HAA06672@sparc.isl.net>
Rendered body type: text/plain

300 feet? Have you ever flown an NDB approach? Or a VOR approach from a VOR a few miles from the airport, not aligned with the runway, of course (on a windy day)?

>I'd sure hate to make an IFR approach with a navigation instrument having >300 ft or more error. Runways are just not that wide.

>

>GPS will never be IFR certified as long as they have the built in error.

>

>

>William Manley

>z002594b@bcfreenet.seflin.lib.fl.us

>

Tony Drumm

internet: tdrumm@sparc.isl.net

Packet: aa0sm@wd0gnk.#semn.mn.usa.na

10. Re: [APRSSIG:4791] Re: CD ROM Maps & APRS

From: ke4eer@ro.com (William Nolle)
Date: Fri, 01 Dec 1995 07:50:01
To: aprssig@tapr.org
Message-ID: <199512011457.IAA13484@sh1.ro.com>
Rendered body type: text/plain

Well to each his own i guess but i find that the 1 mile maps (Actually 2 mile) are just great for such things as local events, Fox hunting etc. In fact on the last local fochunt i directed the later winner directly to within one block of the fox, this was only due to the fact that i could zoom in to a street level map of the area. So those that feel the highly detailed maps are not usefull to them don't need to use them. Like i have said before turn the 1 mile switch off HI.

Bill KE4EER
ke4eer@ro.com

>Precision Mapping is also provided for windows on a single CDROM. I have >found the manual lat/lon feature more beneficial for making local maps >than the stuff I've managed to dl from USGS or any of the maps I've seen >constructed from empirical GPS data.

>

>The Precision Mapping data is derived from, and has the same accuracy, as >the USGS data. In addition, for S. FL., it is more up-to-date than the >dl'd info from edcftgp.cr.usgs.gov. Also, the data points from the dl'd >service seem to be somewhat confusing. For example I've found road >tracks which overlay one another, but with different feature addresses. >Also they all come out a drab grey. Finally I suggest that 1 mile maps >are an overkill. Generally motorists travel on highways rather than >local roads. My observations suggest that, for S. FL., 32 to 64 mile >maps are more usefull. (I do use a 8 mile map for my locality... derived >from PM.)

>

>I've found that the data derived from GPS tracking sometimes fails to >match the Precision Mapping data. On one occasion, a GPS receiver >parked in my driveway indicated my house to be 0.1 mile away! I suggest >that gross accuracy doesn't justify a 1 mile scaled map.

>

>Finally creating the maps from scratch, assisted by PM, is more >entertaining than patching the faults found by either of the other two >methods.

>

>William Manley

>z002594b@bcfreenet.seflin.lib.fl.us

>

>
>On Wed, 29 Nov 1995, Bob Baltz wrote:
>
>> Precision Mapping offers a two CD set of maps of the US. I have used them
>>
>> Bob Baltz *
>> Chesapeake Region Sales *
>> Ph:(410) 987- 8777 *
>> Fax: (410) 987-4489 *
>> E-mail bob.baltz@ustc.vlsi.com *
>>
>>
>>
>

11. Re: [APRSSIG:4783] Re: 20 meter GATES

From: "Pete Hoffswell" <pete@freenet.grfn.org>
Date: Fri, 1 Dec 1995 09:03:54 +0000
To: aprssig@tapr.org
Message-ID: <9512011404.AA06181@grfn.org>
Rendered body type: text/plain

> >
> > Currently I am one of two gates in the chicagoland area. I am
> > wondering if anyone on the SIG is interested in or is running a 20 or
> > 40 meter gate. I would be very interested in putting my gate on
> > either of those 2 bands for purposes of testing the reliability of
> > those links. Anyone interested in putting gates on those bands
> > please let me know. We would use the suggested freqs for APRS.

I _think_ that there is a 20m gate set up in Grand Rapids, MI, but am
not sure, as I'm new to APRS, and it's in its infancy over here
anyway.. Upon monitoring 2M, I received beacons from eastern
Michigan, and one in Northern Ohio. I believe these were digi'd from
20m.

> > jerdptro@xnet.com

>I have been listening on 20 and 40 meters for a gate myself with no luck
> thus far. Since I don't have a rig and antenna for 30 meter, I am
> interested in doing this. What freq do you want to use. Thanks.
>

> Walter Callahan
> N8DTY
> Columbus, Oh
> wcallahn@coil.com
>

I am interested in getting some connections up from western michigan
to chicago. Currently, I'm 2 meters only, however. It seems to me,
that two big beams across 75 miles of water should work pretty well,
but what do I know? :)

Once I figure out our current setup over here, I'll post a message,
or HST file or something.

-pete

| |
|---|
| Pete Hoffswell N9SSA Holland Michigan |
| Kent County w)616-336-2304 h)616-738-0934 |
| http:www.grfn.org/~pete |

12. re: [APRSSIG:4792] Re: Cat-bird's Seat

From: "John Vaughn" <jvaughn@TTIADMIN.tamu.edu>
Date: Fri, 1 Dec 95 8:12:15 CST
To: <aprssig@tapr.org>
Message-ID: <vines.ITY7+Vrkjkb@TTIADMIN.tamu.edu>
Rendered body type: text/plain

WOW! APRS running under LINUX!!! I want one!

A friend has recently begun running a LINUX machine on his "network" at
home and I would like to "see" him on APRS. If you could even steer me in
the right direction....

Many TNX, 73 -John / KC5FEV

13. re: [APRSSIG:4787] Re: I'm missing something?

From: "John Vaughn" <jvaughn@TTIADMIN.tamu.edu>
Date: Fri, 1 Dec 95 8:22:06 CST
To: <aprssig@tapr.org>
Message-ID: <vines.ITY7+tykjb@TTIADMIN.tamu.edu>
Rendered body type: text/plain

Hey there, Gerry! I'm with TTI in Houston.

GIG 'EM!

14. Re: [APRSSIG:4786] Re: GPS simultaneous parallel tracking

From: dkaplan@pionet.net (Dave Kaplan)
Date: Fri, 1 Dec 1995 08:35:16 -0600
To: aprssig@tapr.org
Message-ID: <9512011435.AA10299@ELWOOD.pionet.net>
Rendered body type: text/plain

>I'd sure hate to make an IFR approach with a navigation instrument having
>300 ft or more error. Runways are just not that wide.
>
>GPS will never be IFR certified as long as they have the built in error.
>
>
>William Manley
>z002594b@bcfreenet.seflin.lib.fl.us

Sorry to tell you, but my King KLN90B GPS *IS* certified for IFR enroute and
GPS approaches. With the moving map built in it sure is slick (but for
\$12,000 it should be!).

I just had the radio shop drop some wires for RS-232 output, but it is not
in standard \$GPXXX format. I have a copy of the format and am looking for
someone to write a program that could be burned into a chip for the KPC-3 so
I can run airmobile. Any takers??? Wonder how it would work at
16,000-25,000 where I usually fly?

Dave WB0WNX & Pilot of Piper Mojave N9232Y

15. Re: [APRSSIG:4782] Re: New GPS Rece

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Dec 1995 10:06:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951201100636.20676B-100000@greatlakes>
Rendered body type: text/plain

Does that magellan 2000 have a NMEA serial port?

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

16. Re: [APRSSIG:4785] COM-BUFFER-OVERRUN errors

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Dec 1995 10:12:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951201101102.20676G-100000@greatlakes>
Rendered body type: text/plain

On Thu, 30 Nov 1995 moyers@ibm.net wrote:

> I seem to be getting Comm-Buffer-Overrun errors anytime I am typing
> comments to another station...

APR REPLY: Type FASTER! APRS ignores the COM ports while you are typing
in response to a PROMPT. Your buffers are overflwoing..

17. Re: [APRSSIG:4665] APRS VHF DX

From: rwf@mindspring.com
Date: Fri, 1 Dec 1995 10:20:12 -0500
To: aprssig@tapr.org
Message-ID: <199512011520.KAA11444@borg.mindspring.com>
Rendered body type: text/plain

Well no wonder...

Some guy in Cinci was pathing WIDE,WIDE,WIDE,WIDE. Talk about redundant
echos! :)

It was interesting, tho- glad it didn't last too long. I liked it better when I saw WB4APR in Atlanta via WIDE,WIDE last month. That was some decent packet dx.

Ralph

At 09:58 AM 11/27/95 -0600, you wrote:
>Hello,
>
>It was a nice surprise to see the VHF DX early on Saturday, 25 November 1995
>to the north and south from Dayton, Ohio.
>
>At one time, (aprox 0200 EST) I had stations on my screen from north of
>Detroit, MI south through Ohio and Kentucky. But at 0600 the stations from
> TN, AL and GA started to show up on my screen. WOW! This is the first time
>I have seen stations all along I-75 from Michigan to Georgia all on VHF.
> With some gateway action, a large part of I-75 looks to be covered by APRS
>stations.
>
>Will I-75 be the first ALL APRS FREEWAY? I'm sure I-95 is very close too.
>
>Looking for more APRS VHF DX,
>
>
>Steve Caesar AA8JK VK4SID
>
>TRI-STATE APRS WORKING GROUP (TAWG)
>
>
>
>

18. Re: [APRSSIG:4792] Re: Cat-bird's Seat

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Date: Fri, 1 Dec 1995 09:44:12 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512011544.JAA26308@crasher2.ttgciitn.com>
Rendered body type: text/plain

Thus spake Shannon Miller, splattered hither:
> Ryan Tucker writes:
> > Thus spake Bob Bruninga, splattered hither:
> > > 1) Known APRS activity not apparently represented on the SIG:
> > > Central Iowa, Arizona
> >
> > If only APRS worked under dosemu ;-)
>
> That's not APRS' fault, as standard QBASIC doesn't even run under
> dosemu (exact same failure)! I think the Linux folks are working
> on it. They at least know about it.

A pity, too. I'll keep an eye out for new dosemu versions.

> Meanwhile, a Linux/XFree86 version of APRS is rumored to be being
> considered by the MAC-APRS/Windows brothers. Now *that* would be
> great!

Oooers... that would be *nice*.

> Is there any demographical info. on APRS users with regards to what
> O/S they typically use?

I'll assume there's only a few Linux users out there -- most people haven't seen the light. :-)

--
---Ryan Tucker
--rtucker@ttgciitn.com
-http://www.netins.net/showcase/rtucker netins.net user development group
TTGCIITN Communications Help Desk -- need internet/unix help? help@ttgciitn.com

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19. Re: [APRSSIG:4798] Re: 20 meter GATES

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>
Date: Fri, 01 Dec 1995 11:48:18 -0500
To: aprssig@tapr.org
Message-ID: <30BF31D2.451A@wingsbbs.com>
Rendered body type: text/plain

Pete Hoffswell wrote:

>
> I think that there is a 20m gate set up in Grand Rapids, MI, but am
> not sure, as I'm new to APRS, and it's in its infancy over here

Where have you been? Haven't seen your "mark" on the map? I have been on since late May or June!

> anyway.. Upon monitoring 2M, I received beacons from eastern
> Michigan, and one in Northern Ohio. I believe these were digi'd from
> 20m.
>

NO there is NO gate on 20M in Grand Rapids.. That is all from 145.790Mhz when the Band is open.. WE could use a gate here in Grand Rapids on 30M even since our Gate provider's radio is in the Hospital.

Besides, Northern Ohio and Eastern Mi. is too close for 20...

73!!

Sam Nabkey - WJ8T
snabkey@wingsbbs.com
Grand Rapids, MI

>
> | Pete Hoffswell | N9SSA | Holland Michigan |
> | Kent County | w)616-336-2304 | h)616-738-0934 |
> |http:www.grfn.org/~pete |
>

20. Re: [APRSSIG:4801] Re: GPS simultaneous parallel tracking

From: lancer@airways.com (Lance Robinson)
Date: Fri, 1 Dec 1995 09:54:13 -0800
To: aprssig@tapr.org
Message-ID: <199512011754.JAA19506@sonic.net>
Rendered body type: text/plain

dkaplan@pionet.net (Dave Kaplan) Wrote:

> <snip>
> I just had the radio shop drop some wires for RS-232 output, but it is not
> in standard \$GPXXX format. I have a copy of the format and am looking for
> someone to write a program that could be burned into a chip for the KPC-3 so
> I can run airmobile. Any takers??? Wonder how it would work at
> 16,000-25,000 where I usually fly?
>
> Dave WB0WNX & Pilot of Piper Mojave N9232Y
>

I am very new to the aprssig and don't know about available documentation for the KPC-3, but I assume they don't give out enough information to re-program their device. Re-engineering the ROM is very time consuming.

Your best bet would probably be to build a translator device that translates your GPS's output to the NMEA codes. There are some relatively cheap single board computers (\$150) that could be programmed to do the needed translation. If you are a little more industrious, you could put together a simple board with a microcontroller (87C51--has built in EPROM and serial output) and a serial transceiver chip.

If you send me the format of your GPS's output, I'd be willing to look at it and give you more feedback. If you e-mail me, don't expect a reply until after Monday--I'll be out of town.

Best regards, --Lance

-----<><
D.Lance Robinson (lancer@airways.com)
Office: (707)526-6488 ! /!=\ /7 /-----
Fax: (707)526-5643 <=====! ----(Airways Technology, Inc. (
Home: (707)823-8227 ! 8 \-----

21. Re: [APRSSIG:4802] Re: New GPS Rece

From: w2g3zfj@unix.asb.com (bob)
Date: Fri, 01 Dec 1995 13:33:50 -0500
To: aprssig@tapr.org
Message-ID: <199512011937.NAA05408@UNIX.asb.com>
Rendered body type: text/plain

Hi Bob

I had a look at one in the local KMart and I couldn't see any external interface connections on it. Also scanned the manual and theres no mention of NMEA or interfaces etc.

Shame!

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com

>Does that magellan 2000 have a NMEA serial port?
>
>
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
>
>

22. 30m interference

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Fri, 1 Dec 1995 12:48:47 -0600
To: aprssig@tapr.org
Message-ID: <199512011848.MAA11878@OAMPC10.csg.mot.com>
Rendered body type: text/plain

Did anybody else hear an FM signal on 10.150 yesterday with spanish voice broadcast? I first heard it around 5:30 pm CST and it was gone at 7:30pm. I switched in attenuators in the receiver to verify whether it was IM or not. It seemed to be a real signal, and did a pretty good job of clobbering 30m APRS while it was there.

Paul, WD9ABE

23. Re: [APRSSIG:4782] Re: New GPS Rece

From: rwf <rwf@mindspring.com>
Date: Fri, 1 Dec 1995 13:45:33 -0500
To: aprssig@tapr.org
Message-ID: <199512011845.NAA29135@borg.mindspring.com>
Rendered body type: text/plain

Just beware: NO serial data port on the 2000, so cannot be connected to APRS.

At 09:30 PM 11/30/95 -0600, you wrote:

>Claude-
>The Radio Shack add looks like it is the Magellan GPS2000 which can be
>purchased for less than \$200 at any Sporting Goods store or K-Mart. I
>suspect Radio Shack is adding \$20 to get it with their name on it.
>
>73's de Mike, KA6SPT
>
>

24. Re: [APRSSIG:4765] New GPS Receivers

From: Jim DeLoach <jim.deloach@CellNet.com>
Date: Thu, 30 Nov 1995 10:09:05 -0800
To: aprssig@tapr.org
Message-ID: <199511301813.KAA13729@cellmail.cellnet.com>
Rendered body type: text/plain

I saw that picture; one of them had the side-mounted antenna that looks just like a Garmin.

Jim, WU0I

At 10:54 AM 11/30/95 -0600, you wrote:
>Just got a new flyer from Radio Shack, their number 534 (on last page).
>
>On page 7 of the flyer is the following announcement:
>

25. Re: [APRSSIG:4784] Re: E.Coast 4 alias plan

26. Apology to Mr. Nolle

TAPR-APRS 1994-1995

27. Re: [APRSSIG:4790] Re: GPS simultaneous parallel tracking

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 1 Dec 1995 15:47:19 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512011536.A1331-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Fri, 1 Dec 1995, Gerald J Creager wrote:

> My Garmin GPS-55AVD and I go everywhere together. I'd not think of trying to
> make a trip without it. Oh, and when I've correlated it to my instrument
> approaches, it's always gottem me to the end of the runway... just where it
> should be.

Would you bet your life on it?

> 'Scuse me? Care to meet TSO-C-129? that's the spec for approving GPS
> receivers as primary navigation devices for enroute and approach operations.
> And there are several out there who already meet the criteria. In my opinion,
> the spec is at least a little too strict!

You are excused, but a spec doesn't make it happen. No equipment with 300'
error will ever be acceptable for IFR approach.

> The FAA has let contracts for their "Wide Area Augmentation System" which, to
> us mortals, is DGPS in one form or another. If I understand the latest
> system, it'll use pseudolites, and that means a whole bunch of the GPS
> receivers available today will see the "birds" and just operate. With no
> dither, and little error.

Aw so! I'd believe that the military GPS version would handle the
precision problem, just as I know that the present hobby, maritime, cross
country navigation configurations will not. Sounds like the future
equipment is a step beyond what we are now using.

btw, I've never heard of a pseudolite. What is it?

28. Re: [APRSSIG:4793] Re: GPS simultaneous parallel tracking

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 1 Dec 1995 14:59:48 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512012059.0AA15839@solar.cs.tamu.edu>
Rendered body type: text/plain

Some of us are working with other things besides tracking cars. I've got some
software on the burner now that provides Flight-Director-type graphics when it
sees WAS or usable differential. As for an approach that I back up with the
GPS, if I have the overlay already plugged into the GPS as waypoints, and use
that as a belt-and-suspenders backup, I feel it's prudent.

It is *NEVER* my primary approach tool. It's not certified. It is, however,
apparently more reliable than ARC/Sperry radios!

73, gerry N5JXS
gerry@cs.tamu.edu

29. Re: [APRSSIG:4796] Re: GPS simultaneous parallel tracking

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 1 Dec 1995 15:59:16 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512011520.C1331-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I earned my private pilot license at Danbury Ct. I well understand VOR
approaches and turbulent conditions. But I believe that the real
question is whether you might attempt an IFR approach/landing with a
300' lateral error. At Danbury that would put you snuggled neatly amongst

the hillside pine trees.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Fri, 1 Dec 1995, Tony Drumm wrote:

```
> 300 feet? Have you ever flown an NDB approach? Or a VOR approach
> from a VOR a few miles from the airport, not aligned with the
> runway, of course (on a windy day)?
>
> >I'd sure hate to make an IFR approach with a navigation instrument having
> >300 ft or more error. Runways are just not that wide.
> >
> >GPS will never be IFR certified as long as they have the built in error.
> >
> >
> >William Manley
> >z002594b@bcfreenet.seflin.lib.fl.us
> >
> >Tony Drumm
> >internet: tdrumm@sparc.isl.net
> >Packet: aa0sm@wd0gnk.#semn.mn.usa.na
>
>
```

30. New Year's Eve GPS Party (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 1 Dec 1995 15:09:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512012109.PAA16143@solar.cs.tamu.edu>
Rendered body type: text/plain

For your perusal... Looks like we're gonna get another second!

Tom Clark -- W3IWI sez:

```
> From: clark@tomcat.gsfc.nasa.gov Fri Dec 1 14:23:03 1995
> Date: Fri, 01 Dec 95 20:02:16 UTC
> Message-Id: <89796@tomcat.gsfc.nasa.gov>
> From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
> Reply-To: clark@tomcat.gsfc.nasa.gov
> To: gps-timing@aleph.gsfc.nasa.gov
> Subject: New Year's Eve GPS Party
>
> The following arrived from USNO recently:
>
> | R 301557Z NOV 95
> | FM 250PS FALCON AFB CO//DOAN//
> | UNCLAS
> | NOTICE ADVISORY TO NAVSTAR USERS (NANU) 246-95365
> | SUBJ: LEAP SECOND
> | 1. CONDITION: THE INTERNATIONAL EARTH ROTATION SERVICE (IERS) HAS
> | ANNOUNCED THE INTRODUCTION OF A LEAP SECOND TO OCCUR AT THE END OF
> | DECEMBER 1995.
> | 2. COORDINATED UNIVERSAL TIME (UTC) WILL SEQUENCE AS FOLLOWS:
> | 31 DEC 1995 23 HOURS 59 MINUTES 59 SECONDS
> | 31 DEC 1995 23 HOURS 59 MINUTES 60 SECONDS
> | 1 JAN 1996 0 HOURS 0 MINUTES 0 SECONDS
> | 3. FOR GPS, AS WITH PREVIOUS LEAP SECOND UPDATES, THE UTC DATA IN
> | SUBFRAME 4, PAGE 18 OF THE NAVIGATION MESSAGE WILL CHANGE IN
> | ACCORDANCE WITH ICD-GPS 200.
> | BEFORE THE LEAP SECOND
> | GPS-UTC IS 10 (GPS IS AHEAD OF UTC BY 10 SECONDS)
> | AFTER THE LEAP SECOND
> | GPS-UTC WILL BE 11 (GPS WILL BE AHEAD BY 11 SECONDS)
> | 4. POC: LT CRUM AT COMMERCIAL (719) 567-6396 OR DSN 560 6396.
>
> Most GPS receivers use the continuous GPS time internally and only convert
> to UTC for user-interface output. I know of 3 ways that vendors have chosen
> to do the conversion:
>
> (a) [The really *BAD* way] Some cheap receivers have the GPS-UTC offset
> hardcoded in their ROM-based firmware.
>
> (b) Some receivers make the slightly sinful simplifying approximation of
> applying the ICD-specified correction at 00:00:00 GPS time, in which
> case the receiver will produce incorrect time for 10 seconds and then
```

> get in step.
 >
 > (c) The correct approach is to apply the correction at the 00:00:10 GPS
 > time epoch of the leap second.
 >
 > Therefore you are all invited to a party starting a few minutes before
 > UTC New Years (i.e. 19:00 EST, 16:00 PST etc) to count down the New Year
 > and report what your receiver does. Hopefully *NOBODY* has any of the case (a)
 > "bad actors" in critical applications!
 >
 > Regards, Tom
 >

--
 Gerry Creager N5JXS * SAREX Co-Investigator
 gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

31. Re: [APRSSIG:4814] Re: GPS simultaneous parallel tracking

From: Gerald J Creager <gerry@cs.tamu.edu>
 Date: Fri, 1 Dec 1995 17:38:03 -0600 (CST)
 To: aprssig@tapr.org
 Message-ID: <199512012338.RAA18906@solar.cs.tamu.edu>
 Rendered body type: text/plain

William Manley sez:
 >
 > > My Garmin GPS-55AVD and I go everywhere together. I'd not think of trying to
 > > make a trip without it. Oh, and when I've correlated it to my instrument
 > > approaches, it's always gotten me to the end of the runway... just where it
 > > should be.
 >
 > Would you bet your life on it?

As a backup? Yes. As a primary system? No. Having suffered SEVERAL systems
 failures in rented aircraft, the handheld GPS and handheld radio are mandatory
 for me now. Period.

> You are excused, but a spec doesn't make it happen. No equipment with 300'
 > error will ever be acceptable for IFR approach.

Unfortunately, you're not familiar with the equipment out there, or the RMS
 error enjoyed most of the time. The fact that C/A code with SA on promises no
 more than 100 meter resolutions does not mean that you actually see that.
 Recall that the erroneous effects of SA are mitigated to some (pretty large)
 extent by parallel processing and increased dynamic conditions. An airplane
 is better suited for GPS navigation than your car or bicycle.

> > The FAA has let contracts for their "Wide Area Augmentation System" which, to
 > > us mortals, is DGPS in one form or another. If I understand the latest
 > > system, it'll use pseudolites, and that means a whole bunch of the GPS
 > > receivers available today will see the "birds" and just operate. With no
 > > dither, and little error.
 >
 > Aw so! I'd believe that the military GPS version would handle the
 > precision problem, just as I know that the present hobby, maritime, cross
 > country navigation configurations will not. Sounds like the future
 > equipment is a step beyond what we are now using.

The spec for terminal and non-precision approach navigation requires the same
 basic performance from the receiver, including a separate channel that scans
 all satellites and notifies the receiver when it encounters a different
 solution from the "main" channels. This "receiver autonomous integrity
 monitoring" function is integral to making sure you don't wander off into
 space. Recall that the military units use P-code, with a much higher chip
 rate than C/A (the civilian code), but still use C/A for initial timing.

One of the big, big debates prior to the C-129 release was whether you could
 actually do area navigation with a GPS with SA on. The FAA was skeptical.
 The Aircraft Owners and Pilots Association was pivotal in convincing them that
 it could be done... as they were with overlaid approaches.

Precision approaches will definately require differential correction, and from
 the immediate area of the terminal facility so that the same PRNs are being
 used, else you are NOT correcting!

> btw, I've never heard of a pseudolite. What is it?

A baby satellite that's on a fixed and well known spot on the ground. It doesn't move, it uses the Gold codes, it uses C/A, it's compatible with the receivers today, and it fits into the almanac and ephemeris messages. the original standard called for them to serve a 50 km radius area.

Gerry

32. APRSdr and Footballs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Dec 1995 21:03:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951201200912.29394D-100000@greatlakes>
Rendered body type: text/plain

We are in the middle of the annual football run. As you can see, I have time to send this message. The reason is, APRSdr is doing all the work! We have 4 TRACKERS strethced out over 100 miles and my 3 are all 1 watt trackers. There are BIG gaps in coverage between DIGIS and home stations, but it doesnt matter much. This is because we have an object labeled FOOTBALL being Dead-Reckoned (DR) by APRSdr.

With APRSdr, the FOOTBALL just keeps on truckin' at 7 Knots (128 runners 2 miles at a time in pairs) along the established route (color purple #13). The shuttle vehicles come and go, and whenever I see the Football DR more than a few minutes off, I just hook it and move it where it should be (about once an hour or so). My laptop is runnning the APRSdr via an HT and rubber duck. It sends out a NEW posit on the FOOTBALL once every 3 minutes via my normal APRS rig (RELAY) to the next WIDE and then the GATE...

Even the mobiles do well through the gaps. The normal APRS DR function just keeps on plotting them, and sure enough, when they approach a nearby RELAY or WIDE, they POP up, and their DR disappears...

I know that many of you turn off DR, but it is a WONDERFUL TOOL! Most importatnly, the first thing it tells you is whether your PC clock is on time! If you immediately see DR lines everywhere, then FIX your PC clock, dont turn off DR! In this sense, DR is a WARNING, FIX the problem, dont turn off the alarm!

With your PC clock set properly DATE, TIME and TIMEZONE, and DAYLIGHT savings time (yes 4 items!) then you wont see DR LINES, unless you havent heard from the mobile in a while. If you have DR off, the screen looks nice, but you DO NOT know if the positions are REAL and CURRENT. Only with DR ON can you be assured that the positions you are seeing are REAL!

I think I posted something earlier today about APRSdr was NOT working on an exact NORTH line. WRONG. I had changed my PC clock (see above) and the APRSdr algorithm was doing just what it should. I had changed my clock by an hour for STANDARD time, and the DR was going off into the woods by an hour...

So APRSdr is alive an well. Even for the BUS which was not GPS equipped, when it left here with 45 mids onboard, I just gave it a speed of 50 Knots and watched it DR all the way to the mid check point. I got three visuals by other vehicles along the way that saw the bus, and updated the DR at each sighting. To all other APRS opservers, it looke like the BUS was tracking too...

Even without APRSdr, you can still do this for your event. With normal APRS you can still put an OBJ on the map and give it a course and speed. When it DRs past a corner, you have to hook the posit, estimate how far around the bend to place him, and then INSert him where he should be and estimate a new COURSE..

In conclusion: APRSdr is a GREAT tool for "predictable" events AND If you are turning off DR, you are not using APRS properly.

P.S. Dont forget about the POSITION ALARM. A group of mids was waiting for the shuttle. Last posit was 20 miles out and the DR line was off at 45 degrees to us, but its LENGTH made it clear that they were CLOSE. So, I put a POSIT alarm on the old posit, so I would know INSTANTLY when a new posit came in. Sure enough, 5 minutes later the bells went off, and I knew he was close, (or at lest that I had an update)... There they were, only minutes away (but pulling into the 7-11!).

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

33. ZIP-SIG.ZIP

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Dec 1995 21:41:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951201213203.29636A-100000@greatlakes>
Rendered body type: text/plain

I just posted the latest version (and last for a while) of the ZIP-SIG.HST file on tapr. You can replay this file and see where all the SIG users live. I had sent out some earlier messages about ZIP codes missing from my database, but actually, those were instances of where more than one station had the same ZIP code. (and therefore my program could not make a second match). So only one call will show at each ZIP code. (the first one reported). I hope your egos can handle it, hi hi...

If you got the first file that I sent to everyone, there is little new, except for a few more calls, and the ARIZONA and IOWA states are now represented... Again, you will find the APRS74c to be handy, since on FILE-REPLY, it retains the path and file name of the last file REPLAYED. This makes it easy to repetatively replay the ZIP-SIG file while zooming into different areas...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

34. APRS Live Round table via Internet ?

From: n2czf@gate.net
Date: Fri, 1 Dec 1995 22:27:53 -0500
To: aprssig@tapr.org
Message-ID: <199512020327.WAA42664@tequesta.gate.net>
Rendered body type: text/plain

Just a thought I had that I would pass along to other sig users.

With so many APRS users on Internet now how about letting everyone in two areas TALK with each other via a local repeater using Internet as a link!

No expensive equipment is needed and regular sig members can set up a net at a predetermined time between two active areas so ideas can be exchanged. All that is needed is Internet Phone, permission to use a repeater that can cover most of the local APRS area and a VOX BOX from Radio Shack.

Purchase a Voice Activated Telephone Remote Control box RS# 43-263 and cut or remove R7 a 3.3 meg resistor. Replace that opening with a 1 meg resistor and the modification is COMPLETE! R7 controls the hang time and sets it at about 1 second. Pump your VHF or UHF radio's audio into a Sound Blaster's input (BE CAREFUL with the amount of level!!) and connect your Blaster's audio output to the VOX input. Take the VOX output and feed it to the radio with proper level adjustments and the VOX Box switch line and connect to your PTT on the radio. You now have a Internet<->VHF or UHF Link in operation.

Once the two internet stations connect to each other everyone will be able to converse in normal fashion but be aware of VOX circuits in the link and give plenty of time to let the units activate and deactivate. This would be a great way to "teleconference" two active APRS areas so that ideas can be passed along and APRS users that need help can ask other experienced users in other areas.

Yes, we do that on the sig all the time but how many users do you have in your area that are not on internet, or how often have you wondered what so and so really sounds like in person ??

The real test will be when more than one link can be established at a time and we can get a country wide APRS meeting real-time over the internet! Anyone have experience as net control with EXTREMELY large nets ? hi hi

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

35. Re: [APRSSIG:4821] APRS Live Round table via Internet ?

From: ke4eer@ro.com (William Nolle)
Date: Fri, 01 Dec 1995 22:50:18
To: aprssig@tapr.org
Message-ID: <199512020557.XAA26658@sh1.ro.com>
Rendered body type: text/plain

By the way i have done this also, i have talked on several repeaters using I-Phone and in fact talk to many many hams that way. I have a setup similar but i use the Ramsey Vox board for the delay, really works great, Had a QSO

with Ralph N4NEQ the other night about mapmaking chatted for about an hour as you know he's in Atlanta and i'm near Huntsville,AL works great. SO far i must have logged about 20 country's and hate to guess how many states and don't even have any HF equipment Hi.

Bill KE4EER

>Just a thought I had that I would pass along to other sig users.
>
>With so many APRS users on Internet now how about letting everyone in two
> areas TALK with each other via a local repeater using Internet as a link!
>
>No expensive equipment is needed and regular sig members can set up a
>net at a predetermined time between two active areas so ideas can be exchanged.
>All that is needed is Internet Phone, permission to use a repeater that can
>cover most of the local APRS area and a VOX BOX from Radio Shack.
>
>Purchase a Voice Activated Telephone Remote Control box RS# 43-263 and cut or
>remove R7 a 3.3 meg resistor. Replace that opening with a 1 meg resistor and the
>modification is COMPLETE! R7 controls the hang time and sets it at about 1
>second. Pump your VHF or UHF radio's audio into a Sound Blaster's input (BE
>CAREFUL with the amount of level!!) and connect your Blaster's audio output to
>the VOX input. Take the VOX output and feed it to the radio with proper level
>adjustments and the VOX Box switch line and connect to your PTT on the radio.
>You now have a Internet<->VHF or UHF Link in operation.
>
>Once the two internet stations connect to each other everyone will be able to
>converse in normal fashion but be aware of VOX circuits in the link and give
>plenty of time to let the units activate and deactivate. This would be a great
>way to "teleconference" two active APRS areas so that ideas can be passed along
>and APRS users that need help can ask other experienced users in other areas.
>
>Yes, we do that on the sig all the time but how many users do you have in your
>area that are not on internet, or how often have you wondered what so and so
>really sounds like in person ??
>
>The real test will be when more than one link can be established at a time and
>we can get a country wide APRS meeting real-time over the internet! Anyone have
>experience as net control with EXTREMELY large nets ? hi hi
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
>
>

36. Improved MKMAPKKE.ZIP

From: KSwaggart@aol.com
Date: Sat, 2 Dec 1995 00:35:33 -0500
To: aprssig@tapr.org
Message-ID: <951202003532_122700461@emout06.mail.aol.com>
Rendered body type: text/plain

For the APRS !:100K map makers, I've uploaded an improved version of MKMAPKKE to tapr.org:/tapr/SIG/aprssig/uploads.

This "tweak" to John Cavanagh's (KB4XF) great mkmapk1 program includes a menu which allows you to include railroads, elevation contour lines, city/town boundarys, and force the inclusion of streams at any scale.

MKMAPKKE also extracts trails and streams for maps of 2 mile scale or less. Airports are always extracted if you have the Miscellaneous Transportation Features files.

A text file, MKMAPKKE.TXT, is included which describes the new map making features. Also, a sample map and .DAT file showing a contour map along the coast north of San Francisco is also included which you can view using MAPFIXxx.

Have fun and keep cranking out those maps!

73, Ken, W7KKE
kswaggart@aol.com

37. Sig list for MACAPRS

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 1 Dec 1995 23:50:09 -0600

To: aprssig@tapr.org
Message-ID: <v02130500ace5970d27ec@[199.1.11.163]>
Rendered body type: text/plain

I re-formatted and removed a few double decimal points
The re-format was just a simple find and replace but
here it is to save time.

Use the OPEN FILE menu not the OPEN Call Sign file menu command.

```
----- Cut here -----
N1JEL  *>APRS  :!*****4224.  N/ 7140.  W-APRSSIG
N1EDZ  *>APRS  :!*****4212.  N/ 723.   W-APRSSIG
N1CPE  *>APRS  :!*****4218.  N/ 7125.  W-APRSSIG
N1JDU  *>APRS  :!*****4225.  N/ 713.   W-APRSSIG
WA1YKN *>APRS  :!*****4137.  N/ 7022.  W-APRSSIG
NM1W   *>APRS  :!*****4252.  N/ 7110.  W-APRSSIG
WA1LOU *>APRS  :!*****4135.  N/ 7258.  W-APRSSIG
KD1LY  *>APRS  :!*****414.   N/ 7328.  W-APRSSIG
W2HOB  *>APRS  :!*****403.   N/ 7450.  W-APRSSIG
W2HOB-15 *>APRS :!*****3957.  N/ 7440.  W-APRSSIG
WA2TXV *>APRS  :!*****4039.  N/ 7453.  W-APRSSIG
WU2Z   *>APRS  :!*****4027.  N/ 7428.  W-APRSSIG
G3ZFJ  *>APRS  :!*****4043.  N/ 734.   W-APRSSIG
N200C  *>APRS  :!*****4251.  N/ 746.   W-APRSSIG
N2CYO  *>APRS  :!*****4441.  N/ 7327.  W-APRSSIG
W2ICZ  *>APRS  :!*****4255.  N/ 7845.  W-APRSSIG
N3EOY  *>APRS  :!*****4154.  N/ 8018.  W-APRSSIG
WB3KGT *>APRS  :!*****4157.  N/ 7958.  W-APRSSIG
AA3AK  *>APRS  :!*****4026.  N/ 7625.  W-APRSSIG
WM3L   *>APRS  :!*****4125.  N/ 7539.  W-APRSSIG
WB3IHY *>APRS  :!*****403.   N/ 754.   W-APRSSIG
K3BY   *>APRS  :!*****396.   N/ 7532.  W-APRSSIG
K3VOA  *>APRS  :!*****3831.  N/ 77.6.   W-APRSSIG
WA3FYZ *>APRS  :!*****397.   N/ 7651.  W-APRSSIG
KC6HUR *>APRS  :!*****3912.  N/ 7649.  W-APRSSIG
WA7ZZB *>APRS  :!*****397.   N/ 7630.  W-APRSSIG
N3OZB  *>APRS  :!*****394.   N/ 7633.  W-APRSSIG
N4ULS  *>APRS  :!*****3855.  N/ 7715.  W-APRSSIG
N4PGS  *>APRS  :!*****383.   N/ 7829.  W-APRSSIG
K4LMY  *>APRS  :!*****3721.  N/ 7754.  W-APRSSIG
N4WZR  *>APRS  :!*****3646.  N/ 764.   W-APRSSIG
WB4PAN *>APRS  :!*****3637.  N/ 80.6.   W-APRSSIG
KB4MPX *>APRS  :!*****3721.  N/ 7912.  W-APRSSIG
WA4RTS *>APRS  :!*****3725.  N/ 7912.  W-APRSSIG
WA4BWB *>APRS  :!*****3724.  N/ 797.   W-APRSSIG
K4EUK  *>APRS  :!*****3719.  N/ 7931.  W-APRSSIG
N4DBX  *>APRS  :!*****3636.  N/ 7923.  W-APRSSIG
AC4RC  *>APRS  :!*****3721.  N/ 7916.  W-APRSSIG
KA4YNO *>APRS  :!*****3721.  N/ 7923.  W-APRSSIG
N4QWF  *>APRS  :!*****3730.  N/ 7910.  W-APRSSIG
W4DGE  *>APRS  :!*****366.   N/ 7952.  W-APRSSIG
KQ4MS  *>APRS  :!*****3549.  N/ 7834.  W-APRSSIG
KE4LUO *>APRS  :!*****350.   N/ 8112.  W-APRSSIG
N4NEQ  *>APRS  :!*****34.6.   N/ 8437.  W-APRSSIG
W8KJM  *>APRS  :!*****3352.  N/ 846.   W-APRSSIG
WB4DPT *>APRS  :!*****3351.  N/ 8424.  W-APRSSIG
KM4HY  *>APRS  :!*****3357.  N/ 8325.  W-APRSSIG
KC4ZGQ *>APRS  :!*****3250.  N/ 8340.  W-APRSSIG
WB2NGZ *>APRS  :!*****296.   N/ 8058.  W-APRSSIG
K04HD  *>APRS  :!*****2439.  N/ 8127.  W-APRSSIG
KB4XE  *>APRS  :!*****2615.  N/ 8015.  W-APRSSIG
KF4DBI *>APRS  :!*****2618.  N/ 8010.  W-APRSSIG
K04HD-2 *>APRS :!*****2543.  N/ 8018.  W-APRSSIG
KE4CGR *>APRS  :!*****2655.  N/ 806.   W-APRSSIG
N2CZF  *>APRS  :!*****2655.  N/ 8012.  W-APRSSIG
KE4RVP *>APRS  :!*****2757.  N/ 8152.  W-APRSSIG
KA3DBK *>APRS  :!*****2758.  N/ 8244.  W-APRSSIG
N4NR   *>APRS  :!*****3318.  N/ 8648.  W-APRSSIG
KE4EER *>APRS  :!*****3457.  N/ 8634.  W-APRSSIG
N4BFZ  *>APRS  :!*****3419.  N/ 8618.  W-APRSSIG
KQ4TV  *>APRS  :!*****3610.  N/ 8636.  W-APRSSIG
KD4KSQ *>APRS  :!*****364.   N/ 8643.  W-APRSSIG
N4PUQ  *>APRS  :!*****361.   N/ 8419.  W-APRSSIG
WA4DOR *>APRS  :!*****3511.  N/ 8951.  W-APRSSIG
KB8JX0 *>APRS  :!*****3956.  N/ 8258.  W-APRSSIG
N8DTY  *>APRS  :!*****3957.  N/ 8255.  W-APRSSIG
N8TB0  *>APRS  :!*****403.   N/ 831.   W-APRSSIG
W8BK0  *>APRS  :!*****404.   N/ 8257.  W-APRSSIG
KK4PM  *>APRS  :!*****4123.  N/ 820.   W-APRSSIG
```

| | | | | |
|----------|--------|----------------|----------|-----------|
| AG9V | *>APRS | : !*****/3937. | N/ 844. | W-APRSSIG |
| AA8JK-10 | *>APRS | : !*****/3937. | N/ 8415. | W-APRSSIG |
| AA8JK | *>APRS | : !*****/3945. | N/ 846. | W-APRSSIG |
| KB4JY | *>APRS | : !*****/3948. | N/ 842. | W-APRSSIG |
| N8MWZ | *>APRS | : !*****/4045. | N/ 844. | W-APRSSIG |
| N9SSA | *>APRS | : !*****/4249. | N/ 868. | W-APRSSIG |
| N800N | *>APRS | : !*****/4713. | N/ 8827. | W-APRSSIG |
| N0AN | *>APRS | : !*****/421. | N/ 9337. | W-APRSSIG |
| KG0DW | *>APRS | : !*****/4136. | N/ 9344. | W-APRSSIG |
| WB0WNX | *>APRS | : !*****/4231. | N/ 9622. | W-APRSSIG |
| NM0B | *>APRS | : !*****/4156. | N/ 9140. | W-APRSSIG |
| N9UNR | *>APRS | : !*****/4325. | N/ 8810. | W-APRSSIG |
| KB9JTT | *>APRS | : !*****/4258. | N/ 889. | W-APRSSIG |
| N9WSZ | *>APRS | : !*****/436. | N/ 882. | W-APRSSIG |
| N00KW | *>APRS | : !*****/45.6. | N/ 939. | W-APRSSIG |
| WA2VOI | *>APRS | : !*****/45.6. | N/ 9314. | W-APRSSIG |
| WA0LPV | *>APRS | : !*****/4755. | N/ 97.6. | W-APRSSIG |
| N0NGW | *>APRS | : !*****/4755. | N/ 974. | W-APRSSIG |
| WD9ABE | *>APRS | : !*****/4211. | N/ 883. | W-APRSSIG |
| KB9LIN | *>APRS | : !*****/4215. | N/ 887. | W-APRSSIG |
| WD9DMP | *>APRS | : !*****/4157. | N/ 889. | W-APRSSIG |
| N9VHW | *>APRS | : !*****/421. | N/ 889. | W-APRSSIG |
| N9VJQ | *>APRS | : !*****/4155. | N/ 8844. | W-APRSSIG |
| N9WMM | *>APRS | : !*****/4137. | N/ 8743. | W-APRSSIG |
| N9LCI | *>APRS | : !*****/4145. | N/ 8821. | W-APRSSIG |
| W9RI | *>APRS | : !*****/4128. | N/ 9033. | W-APRSSIG |
| NX9M | *>APRS | : !*****/4028. | N/ 8858. | W-APRSSIG |
| K9ORP | *>APRS | : !*****/4036. | N/ 8859. | W-APRSSIG |
| K9CYW | *>APRS | : !*****/4030. | N/ 8858. | W-APRSSIG |
| N0ILB | *>APRS | : !*****/3834. | N/ 9214. | W-APRSSIG |
| WB5TKC | *>APRS | : !*****/3016. | N/ 8946. | W-APRSSIG |
| WA5UTF | *>APRS | : !*****/3255. | N/ 9637. | W-APRSSIG |
| KC5HTN | *>APRS | : !*****/3257. | N/ 9639. | W-APRSSIG |
| KC5EJK | *>APRS | : !*****/3249. | N/ 9646. | W-APRSSIG |
| K5DTN | *>APRS | : !*****/3255. | N/ 9647. | W-APRSSIG |
| WB5QLD | *>APRS | : !*****/3251. | N/ 9710. | W-APRSSIG |
| WA5YVC | *>APRS | : !*****/3245. | N/ 9719. | W-APRSSIG |
| WB3FYV | *>APRS | : !*****/3240. | N/ 9728. | W-APRSSIG |
| KC5HHN | *>APRS | : !*****/3037. | N/ 9622. | W-APRSSIG |
| N5JXS | *>APRS | : !*****/3036. | N/ 9618. | W-APRSSIG |
| N5JXS | *>APRS | : !*****/3034. | N/ 9617. | W-APRSSIG |
| N5RNE | *>APRS | : !*****/3025. | N/ 9742. | W-APRSSIG |
| WA5LHS | *>APRS | : !*****/3012. | N/ 9748. | W-APRSSIG |
| W5UGQ | *>APRS | : !*****/3512. | N/10154. | W-APRSSIG |
| W5SR | *>APRS | : !*****/3513. | N/10148. | W-APRSSIG |
| AB5GE | *>APRS | : !*****/3336. | N/10148. | W-APRSSIG |
| KB1TX | *>APRS | : !*****/3937. | N/10447. | W-APRSSIG |
| KC7NXD | *>APRS | : !*****/4110. | N/1122. | W-APRSSIG |
| KC7CO | *>APRS | : !*****/4034. | N/11149. | W-APRSSIG |
| N7QVU | *>APRS | : !*****/3339. | N/11210. | W-APRSSIG |
| KC7EAO | *>APRS | : !*****/3131. | N/11015. | W-APRSSIG |
| WB6NGC | *>APRS | : !*****/347. | N/1189. | W-APRSSIG |
| N6HNY | *>APRS | : !*****/3426. | N/11831. | W-APRSSIG |
| K6VPV | *>APRS | : !*****/3424. | N/11831. | W-APRSSIG |
| KK6IB | *>APRS | : !*****/3312. | N/11721. | W-APRSSIG |
| WA2VFN | *>APRS | : !*****/331. | N/11651. | W-APRSSIG |
| KB6FAS | *>APRS | : !*****/3330. | N/11739. | W-APRSSIG |
| WB6HAG | *>APRS | : !*****/3343. | N/11754. | W-APRSSIG |
| KC6UTH | *>APRS | : !*****/3537. | N/11740. | W-APRSSIG |
| KE6EGK | *>APRS | : !*****/3736. | N/12228. | W-APRSSIG |
| AC6JA | *>APRS | : !*****/3733. | N/12215. | W-APRSSIG |
| K06JR | *>APRS | : !*****/3759. | N/1226. | W-APRSSIG |
| KE6AFE | *>APRS | : !*****/3658. | N/12158. | W-APRSSIG |
| KA7EZO | *>APRS | : !*****/3836. | N/12116. | W-APRSSIG |
| WA2AGE | *>APRS | : !*****/397. | N/1214. | W-APRSSIG |
| NH6BA | *>APRS | : !*****/2119. | N/1581. | W-APRSSIG |
| WH6SJ | *>APRS | : !*****/2119. | N/15751. | W-APRSSIG |
| N7ZKL | *>APRS | : !*****/4530. | N/12251. | W-APRSSIG |
| KC7AGK | *>APRS | : !*****/4451. | N/1233. | W-APRSSIG |
| WA7JEI | *>APRS | : !*****/4429. | N/1243. | W-APRSSIG |
| KC7CWP | *>APRS | : !*****/4437. | N/12355. | W-APRSSIG |
| KA6QKM | *>APRS | : !*****/4425. | N/1242. | W-APRSSIG |
| KD6IEN | *>APRS | : !*****/4419. | N/1244. | W-APRSSIG |
| KJ7ET | *>APRS | : !*****/481. | N/12245. | W-APRSSIG |

----- cut here -----

38. Re: [APRSSIG:4807] Re: GPS simultaneous parallel tracking

From: "Jim Lynch" <k4gvo@america.net>
Date: Sat, 2 Dec 1995 06:27:25 +0000
To: aprssig@tapr.org
Message-ID: <199512021136.LAA24275@america.net>
Rendered body type: text/plain

> Date: Fri, 1 Dec 1995 12:13:24 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: lancer@airways.com (Lance Robinson)
> To: aprssig@tapr.org
> Subject: [APRSSIG:4807] Re: GPS simultaneous parallel tracking

> dkaplan@pionet.net (Dave Kaplan) Wrote:
>
> > <snip>
> > I just had the radio shop drop some wires for RS-232 output, but it is not
> > in standard \$GPXXX format. I have a copy of the format and am looking for
> > someone to write a program that could be burned into a chip for the KPC-3 so
> > I can run airmobile. Any takers??? Wonder how it would work at
> > 16,000-25,000 where I usually fly?
> >
> > Dave WB0WNX & Pilot of Piper Mojave N9232Y
> >
> >
> I am very new to the aprssig and don't know about available
> documentation for the KPC-3, but I assume they don't give out enough
> information to re-program their device. Re-engineering the ROM is very time
> consuming.
> Your best bet would probably be to build a translator device that
> translates your GPS's output to the NMEA codes. There are some relatively
> cheap single board computers (\$150) that could be programmed to do the
> needed translation. If you are a little more industrious, you could put
> together a simple board with a microcontroller (87C51--has built in EPROM
> and serial output) and a serial transceiver chip.
> If you send me the format of your GPS's output, I'd be willing to look
> at it and give you more feedback. If you e-mail me, don't expect a reply
> until after Monday--I'll be out of town.
The little PIC chips would be able to handle that I'd thing. Those
are rather cheap. Less than \$100. Someone with the development
tools would have to develop it, though.
>
> Best regards, --Lance
>
> -----<><
> D.Lance Robinson (lancer@airways.com)
> Office: (707)526-6488 ! /==\ /7 /-----
> Fax: (707)526-5643 <=====! ----(Airways Technology, Inc. (
> Home: (707)823-8227 ! 8 \-----
>
>

39. MKMAPKKE

From: ke4eer@ro.com (William Nolle)
Date: Sat, 02 Dec 1995 07:21:09
To: aprssig@tapr.org
Message-ID: <199512021428.IAA12321@sh1.ro.com>
Rendered body type: text/plain

Ken Swaggert posted a message here stating that he had posted an updated
version of MKMAPKKE on tapr but i sure can't find it, then i attempted to send
Ken a e-mail message and it was returned by my postmaster saying there is no
address like kswaggert@aol.com. Ok Ken whats up Hi...

Bill KE4EER

40. MKMAPKKE.ZIP now at tapr

From: KSwaggart@aol.com
Date: Sat, 2 Dec 1995 10:07:48 -0500
To: aprssig@tapr.org
Message-ID: <951202100747_41702780@emout06.mail.aol.com>
Rendered body type: text/plain

Don't know what happend to the first upload. Just uploaded again to:

tapr.org:/tapr/SIG/aprssig/upload at 0700 PST, Saturday, 2 DEC. This time I
checked the directory and confirmed it is there. Strange.

I'm still here at kswaggart@aol.com

41. Re: [APRSSIG:4771] Re: DATA RADIO OPTIONS

From: BenWS5R@aol.com
Date: Sat, 2 Dec 1995 10:18:15 -0500
To: aprssig@tapr.org
Message-ID: <951202101814_41708815@mail04.mail.aol.com>
Rendered body type: text/plain

Thr Alinco DR-1200, is being discontinued. It can be found for around \$200.00 or less at various suppliers. Just purchased on for \$209.00 at HRO. True FM, synthesized, and 25 watts out. Almost too much radio for a packet rig, but for \$200.00, not bad.

Ben WS5R DM95cf

42. Re: [APRSSIG:4827] MKMAPKKE.ZIP now at tapr

From: wricharz@ix.netcom.com (William Richarz)
Date: Sat, 02 Dec 1995 10:57:45 -0500
To: aprssig@tapr.org
Message-ID: <199512021559.HAA29206@ix2.ix.netcom.com>
Rendered body type: text/plain

>Don't know what happend to the first upload. Just uploaded again to:
>
>tapr.org:/tapr/SIG/aprssi/upload at 0700 PST, Saturday,2 DEC. This time I
>checked the directory and confirmed it is there. Strange.
>
>I'm still here at kswaggart@aol.com
>
>73, Ken, W7KKE

I just downloaded by copy of MKMAPKKE.ZIP...Thanks Ken.
Bill Richarz <WA4VAF>
wicharz@ix.netcom.com

43. Re: [APRSSIG:4827] MKMAPKKE.ZIP now at tapr

From: ke4eer@ro.com (William Nolle)
Date: Sat, 02 Dec 1995 10:50:16
To: aprssig@tapr.org
Message-ID: <199512021758.LAA19733@sh1.ro.com>
Rendered body type: text/plain

Got it this time Ken..

Bill KE4EER

>Don't know what happend to the first upload. Just uploaded again to:
>
>tapr.org:/tapr/SIG/aprssi/upload at 0700 PST, Saturday,2 DEC. This time I
>checked the directory and confirmed it is there. Strange.
>
>I'm still here at kswaggart@aol.com
>
>73, Ken, W7KKE
>

44. Re: [APRSSIG:4828] Re: DATA RADIO OPTIONS

From: ke4eer@ro.com (William Nolle)
Date: Sat, 02 Dec 1995 10:52:43
To: aprssig@tapr.org
Message-ID: <199512021800.MAA19835@sh1.ro.com>
Rendered body type: text/plain

Be prepared for the display lights to go out after a while. I have two and both did the same thing and i heard of many others with the same probelm.
Just somethig to look out for..

Bill KE4EER

>Thr Alinco DR-1200, is being discontinued. It can be found for around \$200.00
>or less at various suppliers. Just purchased on for \$209.00 at HRO. True FM,
>synthesized, and 25 watts out. Almost too much radio for a packet rig, but
>for \$200.00, not bad.
>
>Ben WS5R DM95cf
>

45. Re: [APRSSIG:4831] Re: DATA RADIO OPTIONS

From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>
Date: Sat, 2 Dec 1995 13:03:26 -0500
To: ke4eer@ro.com (William Nolle), aprssig@tapr.org
Message-ID: <199512021803.MAA24716@sys1.tapr.org>
Rendered body type: text/plain

On 2 Dec 95 at 11:03, William Nolle wrote:

> Be prepared for the display lights to go out after a while. I have two and both
> did the same thing and i heard of many others with the same probelm.
> Just something to look out for..
>
> Bill KE4EER
> -----
>

In a system in use in our County, we had 6 DR-1200/KPC-2/3 combos running.. Only down time from any for a five year time spread was caused by a theft.

I am ordering one Monday.. Thanks for the TIP!

Sam Nabkey - WJ8T
snabkey@wingsbbs.com
wj8t@w8dc.ampr.org

46. OOPS in 74c

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 2 Dec 1995 13:30:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951202132753.758A-100000@greatlakes>
Rendered body type: text/plain

Consider 74c a BETA test, hi hi. In making he DIGI list longer and the HEARD list shorter on the HOOKED display at the bottom of the screen, I goofed and the HEARD data is now LONGER and wraps around over top of the POSIT line. This is a TRIVIAL problem, but I'm going to fix it immediately and release 74d. SO do not further distro 74c. 74D will be done in 2 hours...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

47. BETA test of 74c.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 2 Dec 1995 14:14:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951202141031.836A@greatlakes>
Rendered body type: text/plain

Well, I now have feedback about the BAND switching for the AEA dual band TNC's also does not yet work right. SO rather than making a 74D immediately, and since the word is out to not distro 74c further, I will hold off a few days and make another crack at thte dual band switching.

So if you already have 74c, USE IT. But feedback any bugs you see, and do NOT further distro it, since it will be soon replaced...

----- Forwarded message -----
Date: Sat, 2 Dec 1995 12:32:59 -0600 (CST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: [APRSSIG:4833] OOPS in 74c

Consider 74c a BETA test, hi hi. In making he DIGI list longer and the HEARD list shorter on the HOOKED display at the bottom of the screen, I goofed and the HEARD data is now LONGER and wraps around over top of the POSIT line. This is a TRIVIAL problem, but I'm going to fix it immediately and release 74d. SO do not further distro 74c. 74D will be done in 2 hours...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

48. WB4APR's onramp to Internet DOWN

From: W2H0B@aol.com
Date: Sat, 2 Dec 1995 14:20:52 -0500
To: aprssig@tapr.org
Message-ID: <951202142051_123030882@emout05.mail.aol.com>
Rendered body type: text/plain

Bob, WB4APR, asks that the SIG be advised his Internet provider is down and it is possible that your mail to him will be delayed until his access is restored.

Hang in there if you're waiting for replies from Bob.

73 de Boyd W2H0B@aol.com

49. PK-900 and DSP-2322

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 2 Dec 1995 14:56:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951202145352.917A-100000@greatlakes>
Rendered body type: text/plain

I made a beta test version of what will be 74d which includes another test of the band switching for the AEA dual band TNC's. This beta test is on TAPR as betaa.zip. It contains only the file APRS74a.zip. I figured the 74a was harmless... I dont want to use up "d" yet!

Dont waste your time with this unless you have the AEA dueal ports...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

50. Where is Mapfix?? zip program

From: "Bernie Andreoli" <berlyn@epix.net>
Date: Sat, 2 Dec 1995 15:42:25 -5
To: aprssig@tapr.org
Message-ID: <199512022041.PAA11770@epix.net>
Rendered body type: text/plain

Could someone tell me where to find the mapfix program(s). I looked in the tapr ftp site but could not find it in there. I DL'ed it once but can't remember from where....TNX

Bernie WM3L berlyn@epix.net

51. Re: GPS-45 and KPC-3

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 2 Dec 1995 19:48:06 -0600
To: Gordon Fuller <gfuller@netcom.com>
Cc: aprssig@tapr.org
Message-ID: <v02130500ace6aa6ff49e@[199.1.11.130]>
Rendered body type: text/plain

>question still remains, Do we need to set BOTH \$GPGGA and \$GPRMC ?

You will get some extra information by having both.

1. I used a different UNP path for one to see how that helps get the information back home.
2. The GGA has height information plus location
The RMC has Speed and direction and the location

Most people, I think, just use RMC

\$GPRMC,023742,A,3411.615,N,11807.967,W,003.5,320.7,110495,,*05
\$GPGGA,023742,3411.616,N,11807.967,W,1,00,2.7,368.9,M,-31.4,M,,*7B

=== From Sebastian Birnbach Via sci.geo.satellite-nav newsgroup ===

The GPS 45 outputs the following NMEA dataframes in cycles of approx. one every two seconds:

\$GPGSV GPS satellites in view
\$PGRME unknown
\$GPGLL GPS latitude and longitude
\$PGRMZ altitude above normal zero
\$PGRMM selected map datum
\$GPBOD GPS bearing, origin to destination
\$GPWPL GPS waypoint location (different WP of track 0 each cycle)

\$GPRMC GPS recommended minimum specific GPS/TRANSIT data
\$GPRMB GPS recommended minimum navigation information
\$GPGGA GPS fix data
\$GPGSA GPS DOP and active satellites

\$GPGGA,123519,4807.038,N,01131.324,E,1,08,0.9,545.4,M,46.9,M, , *42
HHMMSS,DDMM.MMM,N,DDDMM.MMM,E,Q,NS,DOP,ALTI ,U,FF.F,U,?,?*CS

HHM...:time UTC
DDM...:degree value of latitude
N: north/south (N/S)
DDD...:degree value of longitude
E: east/west (E/W)
Q: quality of fix(?)
ALTI: integer value of height above sealevel
U: units (M=meter)
?: unknown
CS: checksum

\$GPRMC,123519,A,4807.038,N,01131.324,E,000.0,276.9,150895,000.5,E*73
HHMMSS,V,DDMM.MMM,N,DDDMM.MMM,E,SPEED,TRACK,DATE ,DEVIA,E*CS

HHM...:time UTC
V: validity flag (V=invalid, A=valid)
DDM...:degree value of latitude
N: north/south (N/S)
DDD...:degree value of longitude
E: east/west (E/W)
SPEED:speed over ground, measured in knots
TRACK:course over ground or track
DATE: current date
DEVIA:magnetic deviation
E: east/west (E/W)

Glad the info helped. If you find something that is interesting
please send.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

52. Re: [APRSSIG:4837] Where is Mapfix?? zip program

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 2 Dec 1995 21:15:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951202211519.1224C-100000@greatlakes>
Rendered body type: text/plain

its included with every copy of APRS distro.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

53. Re: [APRSSIG:4707] Re: GPS simultaneous parallel tracking

From: Sean Smithers <seans@magick.net>
Date: Sat, 2 Dec 1995 20:55:12 -48000
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512022006.B3826-0100000@gp.magick.net>
Rendered body type: text/plain

Hand held gps is not type accepted or certified for aircraft use. It is to be used for VFR only and not as primary navigation equipment. The major difference between a Magellan Skyblazer and a Trailblazer for example is the inclusion of an internal database and other features that are aviation oriented. Garmin is the only GPS manufacturer bent on making a major distinction by limiting top end speed on a unit. Our first GPS we used in a plane was a Trimble Transpack which worked reasonably well even though it was a surveyor's instrument and had absolutely no internal database for aviation. There is no certification cost to be included in the price of the Aviation Garmin GPS's.

=====
Sean Smithers
Internet: seans@gp.magick.net

CompuServe: 70132.136
Packet: N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM

On Wed, 29 Nov 1995 jleonard@tbcnet.com wrote:

>
> Unless I'm mistaken, any gear possibly used for air navigation has to be FAA
> type accepted, and the manufacturer has to jump through all kinds of hoops to
> get it approved.
>
>

54. New Address

From: edwardwr@skognet.com (Ed Rogers)
Date: Sat, 2 Dec 1995 17:50:32 -0600
To: aprssig@tapr.org
Message-ID: <199512022350.RAA21365@skognet.skognet.com>
Rendered body type: text/plain

Ive changed internet providers (local call now, and its cheaper too!!) so my old mail has gone to ???
Dave KA9NHL has made the changes on the Northern Illinois APRS Net homepage so we still get that mail OK.
If anyone on sig has sent a note and not gotten a reply its prob. lost in E-Mail land.
New address edwardwr@skognet.com
73
Ed
N9LCI

"Not only do I live near the Great Lakes, I sail the damm things!!!"

55. CHANGE 145.79?!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 3 Dec 1995 00:54:58 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.951203002331.1650A-100000@greatlakes>
Rendered body type: text/plain

Well, I just finished reading the latest AMSAT journal, and it seems clear to me that the 145.80 frequency for future manned spacecraft is pretty well established WORLDWIDE.

Maybe we on APRS should move down 5 KHz to 145.785.

THIS would give us a 15 KHz split between the users down on 145.77 and the space guys on 145.80. That should work fine, since 15 KHz splits have been shown to work just fine on the 2 meter band with modern rigs.

One further advantage is that most SPACE folks should be encouraged to monitor 145.805 since they will first hear the spacecraft with +3 KHz doppler anyway. Then they can tune downward if they want to track the pass.

Many of us have invested heavily in xtals on 145.79. Probably most XTALS will tune down. Some wont. But now that MFJ is delivering their 5 watt digital radios XTALED on 145.79, we need to make this decision quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals! I dont want to see them get burned...)

I know it is after midnight, and this may be a knee jerk reaction, but I am willing to MOVE. BUT lets all discuss this and see if we all agree?

In conclusion:

- * It will work. It solves the conflict. It supports MANNED HAM radio from space, it will not significantly affect .77 users. It is all-in-all the only possible solution. Some of us may need to re-crystal, but the peace-of-mind will be worth it.

- * I suggest that APRS stations put out bulletins on their local nets to find out who "cant" change their XTALS. Most nets may be able to shift over night (plus negotiating driving time to the digi sites from their wives).

- * To prevent overloading both the AMSAT and APRS nets with redundant traffic, lets assume that EVERYONE agrees. Only reply if you DISSAGREE or have another idea.

* For the sake of discussion, would targeting something like 1 January give everyone a target date, either for "doing" or for "arguing", hi hi.

DE WB4APR in Annapolis MD.

56. Re: [APRSSIG:4842] CHANGE 145.79?!

From: "Sam Nabkey" <snabkey@wingsbbs.com>
Date: Sun, 3 Dec 1995 04:15:52 -0500
To: aprssig@tapr.org
Message-ID: <199512030915.DAA26730@sys1.tapr.org>
Rendered body type: text/plain

Bob,

In Regards to moving from 145.790 - 145.785:

Doesn't REALLY matter here. Most rigs I have on APRS are either EPROM or Dial-up Radios.

IF 5Khz makes THAT much difference to the Manned Missions, then lets change NOW before APRS gets TOO large to be flexible.

I will broadcast a message here on my local VHF net and get the user's input.. I don't think its is going to make any difference here at all..

Better to change now than in another year...

Samuel T. Nabkey - WJ8T

{snabkey@wingsbbs.com}

57. Re: [APRSSIG:4842] CHANGE 145.79?!

From: Bob Wilkins n6fri <rwilkins@uhf.org>
Date: Sun, 3 Dec 1995 02:02:18 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951203004529.2871A@ccnet3>
Rendered body type: text/plain

On Sun, 3 Dec 1995, Bob Bruninga wrote:

> Well, I just finished reading the latest AMSAT journal, and it seems
> clear to me that the 145.80 frequency for future manned spacecraft is
> pretty well established WORLDWIDE.
>
> Maybe we on APRS should move down 5 KHz to 145.785.

Oh Sure! and then loose two coordinated frequencies!

> This would give us a 15 KHz split between the users down on 145.77 and
> the space guys on 145.80. That should work fine, since 15 KHz splits
> have been shown to work just fine on the 2 meter band with modern rigs.

I don't care how modern your rig is, your modulation is well over a 15 kHz channel, you will also receive hits from the users as well as the high level nodes on 77. If we ever go to 9600 you will want a 20 kHz channel at a mininum. Just where do you think you will find a good 9600 channel after you take 79 and 77 and create low speed frequencies out of them. The Packet Band Plan is on 20 kHz channels for a reason!!!

> One further advantage is that most SPACE folks should be encouraged to
> monitor 145.805 since they will first hear the spacecraft with +3 KHz
> doppler anyway. Then they can tune downward if they want to track the pass.

Could it be you have a trick up your sleeve? Most sat folks are not operating at or near the sat band edges...most serious sat users have software to track and aim their antenna. Way too complex to do this manually.

> Many of us have invested heavily in xtals on 145.79. Probably most
> XTALS will tune down. Some wont. But now that MFJ is delivering their 5
> watt digital radios XTALD on 145.79, we need to make this decision
> quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals!
> I dont want to see them get burned...)

Yes you can "tune down" but most of the professionals running high level

wides, would want to operate on frequency, and not at the whims of temperature and other frequency determining variables.

> I know it is after midnight, and this may be a knee jerk reaction, but I
> am willing to MOVE. BUT lets all discuss this and see if we all agree?

I agree, this needs to be discussed by the digital band planners in each region. Your proposal affects more than Aprs on 79. You are also asking the fellows running 9600 on 77 to also find a new frequency. Lets keep Aprs on a twenty kHz frequency so we have a chance of going 9600 in the future.

> In conclusion:

>

> * It will work. It solves the conflict. It supports MANNED HAM radio
> from space, it will not significantly affect .77 users. It is all-in-all
> the only possible solution. Some of us may need to re-crystal, but the
> peace-of-mind will be worth it.

You plan solves nothing. It creates terrestrial conflict with the neighbors on 77. You of all people, should not promote the interference, harmful or incidental, to other coordinated digital stations.

> * I suggest that APRS stations put out bulletins on their local nets to
> find out who"cant" change their XTALS. Most nets may be able to
> shift over night (plus negotiating driving time to the digi sites from
> their wives).

Bob are you a digital coordinator? May we see your credentials?

> * To prevent overloading both the AMSAT and APRS nets with redundant
> traffic, lets assume that EVERYONE agrees. Only reply if you DISSAGREE
> or have another idea.

I think we should be able to agree as well as disagree in these forums, please do not think you can run the debate one sided. We should be able to hear discussion from either side. The bottom line is Part 97.205 (c).

If you are a band planner everyone must agree!

> * For the sake of discussion, would targetting something like 1 January
> give everyone a target date, either for "doing" or for "arguing", hi hi.

For the sake of discussion, just what is it that is causing you to want to change multiple band plans across the world with out consulting those bodies first? Do you or any of your digital coordinators have any technical complaints of interference? What are these complaints? Has anyone tested with the complainer to see if moving 5 kHz is going to make a difference? Have you investigated other technical means to solve this perceived problem to the amsat system or users?

If it is as bad as you say, why not move down to 71 or 73 or some other digital band plan or coordinated frequency.

For the record, terrestrial packet on other frequencies has worked well with the multiple shuttle frequencies that are in use during flights.

I have no vested interest in 79 or 77 as we use 145.01 for Aprs in a large part of the West. My interest is in proper band planning and coordination. The 79 frequency is a heavily used BBS frequency and 77 is used for multiple dx spotting cluster networks out here. In southern California there are lots of simplex autopatches on 77 and 79.

Lets ask the Aprs folks to contact their local and regional digital and repeater coordinators as listed in the ARRL repeater directory. Lets do this only after we define just what the problems are. You can probably only do this once, before you blow your credibility.

Bob n6fri

Bob Wilkins
Berkeley, California
94712-2354

home n6fri@uhf.org
work bwilkins@cave.org
play n6fri@n6eeg.#nocal.ca.usa.noam

58. Re: [APRSSIG:4842] CHANGE 145.79?!

From: jleonard@tbcnet.com (John B. Leonard)
Date: Sun, 3 Dec 1995 06:53:07 -0600
To: aprssig@tapr.org

Message-ID: <199512031253.GAA15239@tbc2.tbcnet.com>

Rendered body type: text/plain

>Well, I just finished reading the latest AMSAT journal, and it seems
>clear to me that the 145.80 frequency for future manned spacecraft is
>pretty well established WORLDWIDE.
>
>Maybe we on APRS should move down 5 KHz to 145.785.

No problem with N9VJQ and WA9CJN-15/WIDE. Both radios can be tuned.

J Barry Leonard HamRadio N9VJQ/EN510W

Subependymoma 1990

DeKalb IL

E-MAIL: jleonard@tbcnet.com

59. Re: [APRSSIG:4842] CHANGE 145.79?!

From: n2czf@gate.net

Date: Sun, 3 Dec 1995 09:34:49 -0500

To: aprssig@tapr.org

Message-ID: <199512031434.JAA32074@tequesta.gate.net>

Rendered body type: text/plain

5 kc may not be too much but I know that it is more than just a crystal. In many states 145.79 was fought for and finally approved for APRS ONLY operation by coordination committies. Going back now after establishment and having a state's band plan changed may be difficult, I know 5 kc is not too much but many did not want us to get .79 EXCLUSIVLY ANYWAY, I can just hear the door of opportunity opening now.....

A lot of work has gone into having .79 OFFICIALLY accepted over the years in many states, I would hate to see all of that work go to pot and need to start the whole cycle again. Might also be an opportunity to have a comittiee change our frequency again when need be on their whim, since whe had already do it before.

73's De Rich N2CZF

n2czf@gate.net

Jupiter Farms Florida

60. [APRSSIG:4842] CHANGE 145.79?!

From: n2czf@gate.net

Date: Sun, 3 Dec 1995 09:47:40 -0500

To: wb4moz@gate.net

Cc: sfoos@ix.netcom.com

Message-ID: <199512031447.JAA62264@tequesta.gate.net>

Rendered body type: text/plain

DO not I REPEAT DO not!! do anything, this is just FYI!!!

I do no not believe this is a good idea with the number of digi's already out there and state coordination. Might be easy to change for some, might not be easy for others with EEPROM programable radios and others with crystals BUT MOST OF ALL it is more than a crystal problem. WE ARE COORDINATED!!!! it took work, is some states A LOT of work to get .79 for APRS use only. In addition to all the digi's we are thinking of how about all the INDIVIDUALS who have stand alone trackers that are crystal controled ?? I have 2 myself but I am sure that there are dozens if not hundreds out there at about \$24 for a pair of crstals, not including the time to tune everything, I do not think that they should be forgotten either.

Let Bob know what you think, as a matter of fact let the sig know what you think ASAP. If you are not on the sig thread send me the message and I will forward it. Let all the other APRS users know about this so we can get this taken care of before it becomes a mess!

<---- Begin Forwarded Message ---->

Date: Sun, 3 Dec 1995 00:02:15 -0600 (CST)

Reply-To: aprssig@tapr.org

From: Bob Bruninga <bruninga@nadn.navy.mil>

To: aprssig@tapr.org

Subject: [APRSSIG:4842] CHANGE 145.79?!

Well, I just finished reading the latest AMSAT journal, and it seems clear to me that the 145.80 frequency for future manned spacecraft is pretty well established WORLDWIDE.

Maybe we on APRS should move down 5 KHz to 145.785.

ThIs would give us a 15 KHz split between the users down on 145.77 and the space guys on 145.80. That should work fine, since 15 KHz splits have been shown to work just fine on the 2 meter band with modern rigs.

One further advantage is that most SPACE folks should be encouraged to monitor 145.805 since they will first hear the spacecraft with +3 KHz doppler anyway. Then they can tune downward if they want to track the pass.

Many of us have invested heavily in xtals on 145.79. Probably most XTALS will tune down. Some won't. But now that MFJ is delivering their 5 watt digital radios XTALD on 145.79, we need to make this decision quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals! I don't want to see them get burned...)

I know it is after midnight, and this may be a knee jerk reaction, but I am willing to MOVE. BUT let's all discuss this and see if we all agree?

In conclusion:

- * It will work. It solves the conflict. It supports MANNED HAM radio from space, it will not significantly affect .77 users. It is all-in-all the only possible solution. Some of us may need to re-crystal, but the peace-of-mind will be worth it.

- * I suggest that APRS stations put out bulletins on their local nets to find out who "can't" change their XTALS. Most nets may be able to shift over night (plus negotiating driving time to the digi sites from their wives).

- * To prevent overloading both the AMSAT and APRS nets with redundant traffic, let's assume that EVERYONE agrees. Only reply if you DISAGREE or have another idea.

- * For the sake of discussion, would targeting something like 1 January give everyone a target date, either for "doing" or for "arguing", hi hi.

DE WB4APR in Annapolis MD.

<---- End Forwarded Message ---->

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

61. Re: [APRSSIG:4842] CHANGE 145.79?!

From: "Demos Doulou" <ddoulou@tesla.netline.net>
Date: Sun, 3 Dec 1995 09:51:01 +0005
To: aprssig@tapr.org
Message-ID: <199512031450.JAA26322@tesla.netline.net>
Rendered body type: text/plain

d

> Well, I just finished reading the latest AMSAT journal, and it seems
> clear to me that the 145.80 frequency for future manned spacecraft is
> pretty well established WORLDWIDE.

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> Maybe we on APRS should move down 5 KHz to 145.785.

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> the space guys on 145.80. That should work fine, since 15 KHz splits
> have been shown to work just fine on the 2 meter band with modern rigs.

>

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> monitor 145.805 since they will first hear the spacecraft with +3 KHz
> doppler anyway. Then they can tune downward if they want to track the pass.

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> XTALS will tune down. Some won't. But now that MFJ is delivering their 5
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> quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals!
> I don't want to see them get burned...)

>

> I know it is after midnight, and this may be a knee jerk reaction, but I
> am willing to MOVE. BUT let's all discuss this and see if we all agree?

>

> In conclusion:

>

> * It will work. It solves the conflict. It supports MANNED HAM radio
> from space, it will not significantly affect .77 users. It is all-in-all
> the only possible solution. Some of us may need to re-crystal, but the

> peace-of-mind will be worth it.
>
> * I suggest that APRS stations put out bulletins on their local nets to
> find out who"cant" change their XTALS. Most nets may be able to
> shift over night (plus negotiating driving time to the digi sites from
> their wives).
>
> * To prevent overloading both the AMSAT and APRS nets with redundant
> traffic, lets assume that EVERYONE agrees. Only reply if you DISSAGREE
> or have another idea.
>
> * For the sake of discussion, would targeting something like 1 January
> give everyone a target date, either for "doing" or for "arguing", hi hi.
>
> DE WB4APR in Annapolis MD.
>
>
>

Dont do it!!!!!!

Demos KR4US

62. Re: [APRSSIG:4842] CHANGE 145.79?!

From: n2czf@gate.net
Date: Sun, 3 Dec 1995 09:52:48 -0500
To: aprssig@tapr.org
Message-ID: <199512031452.JAA10584@tequesta.gate.net>
Rendered body type: text/plain

I am not posny flames on the net her about changes on .79 any of my opinions on the subject are doing directly to Bob be it good or bad.

I will post my vote on the sig so everyone can get a reasonable idea on how everyone feels.

NEY!! (That means no....)

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

63. Re: [APRSSIG:4844] Re: CHANGE 145.79?!

From: "Demos Doulou" <ddoulou@tesla.netline.net>
Date: Sun, 3 Dec 1995 10:05:53 +0005
To: aprssig@tapr.org
Message-ID: <199512031505.KAA26826@tesla.netline.net>
Rendered body type: text/plain

> d
> On Sun, 3 Dec 1995, Bob Bruninga wrote:
> d
> > This would give us a 15 KHz split between the users down on 145.77 and
> > the space guys on 145.80. That should work fine, since 15 KHz splits
> > have been shown to work just fine on the 2 meter band with modern rigs.
>
> I don't care how modern your rig is, your modulation is well over a 15
> KHz channel, you will also receive hits from the users as well as the
> high level nodes on 77. If we ever go to 9600 you will want a 20 KHz
> channel at a minumum. Just where do you think you will find a good 9600
> channel after you take 79 and 77 and create low speed frequencies out of
> them. The Packet Band Plan is on 20 KHz channels for a reason!!!
>d>

We have been trying to run a repeater here in Pinellas county with a 15 Khz separation from another repeater in Tampa. Just dosent work. The repeater receiver is a comercialy made radio and when there is any station operating at any power within 10 miles of the repeater site on the other frequency, it makes our repeater useless.

15 Khz separation will not work.

Demos KR4US
See Ya
Demos

64. Re: [APRSSIG:4849] Re: CHANGE 145.79?!

From: "Demos Doulou" <ddoulou@tesla.netline.net>
Date: Sun, 3 Dec 1995 11:13:12 +0005
To: aprssig@tapr.org
Message-ID: <199512031612.LAA29528@tesla.netline.net>
Rendered body type: text/plain

d I am not posny flames on the net her about changes on .79 any of my opinions on
> the subject are doing directly to Bob be it good or bad.

>

> I will post my vote on the sig so everyone can get a reasonable idea on how
> everyone feels.

>

> NEY!! (That means no....)

>

> 73's De Rich N2CZF

> n2czf@gate.net

> Jupiter Farms Florida

>

>

>

>

>

I'm with you Rich. My digi is eeprom programable, but its a pain to
get it reprogramed. There is one person running crystallled controled
in the area, and it would not be good finacialy for him to get new
cyrstals.

We had several hams who made 145.79 and near by freqs there "HOME"
and they moved when APRS became corridnated for 79. They were not
very happy to move the first time, and most likely will not move
again.

I say STAY ON 145.790!!!!

Demos KR4US

65. Re: [APRSSIG:4821] APRS Live Round table via Internet ?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 3 Dec 1995 11:28:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.951203112408.1119A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Fri, 1 Dec 1995 n2czf@gate.net wrote:

> With so many APRS users on Internet now how about letting everyone
> in two areas TALK with each other via a local repeater using Internet
> as a link!

>

> No expensive equipment is needed and regular sig members can set up a
> net at a predetermined time between two active areas so ideas can be
> exchanged.

> All that is needed is Internet Phone, permission to use a repeater that can
> cover most of the local APRS area and a VOX BOX from Radio Shack.

(snip)

"No expensive equipment is needed"...your definition of 'expensive' is
apparently not the same as mine. Remember, just beacause someone is on the
internet, does NOT mean that they can use Internet Phone.

Richard Amirault
amirault@tiac.net

N1JDU
"Go Fly A Kite"

Boston, Massachusetts USA

66. Re: [APRSSIG:4851] Re: CHANGE 145.79?!

From: DDOBBINS@aol.com
Date: Sun, 3 Dec 1995 12:35:00 -0500
To: aprssig@tapr.org
Message-ID: <951203123458_123658866@mail06.mail.aol.com>
Rendered body type: text/plain

I layeth here, on the beach, in Paradise,
reminding myself it's cold somewhere,
and now shaking my head laterally,

thinking of changing from 145.79????

Negativo.

Time to roll over. Aloha, Dave.

67. Re: [APRSSIG:4844] Re: CHANGE 145.79?!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 3 Dec 1995 11:42:04 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512031742.LAA11170@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Wilkins n6fri sez:

>
> On Sun, 3 Dec 1995, Bob Bruninga wrote:
>
> > Well, I just finished reading the latest AMSAT journal, and it seems
> > clear to me that the 145.80 frequency for future manned spacecraft is
> > pretty well established WORLDWIDE.
> >
> > Maybe we on APRS should move down 5 KHz to 145.785.
>
> Oh Sure! and then loose two coordinated frequencies!
>
> > This would give us a 15 KHz split between the users down on 145.77 and
> > the space guys on 145.80. That should work fine, since 15 KHz splits
> > have been shown to work just fine on the 2 meter band with modern rigs.
>
> I don't care how modern your rig is, your modulation is well over a 15
> KHz channel, you will also receive hits from the users as well as the
> high level nodes on 77. If we ever go to 9600 you will want a 20 kHz
> channel at a minimum. Just where do you think you will find a good 9600
> channel after you take 79 and 77 and create low speed frequencies out of
> them. The Packet Band Plan is on 20 kHz channels for a reason!!!

If, in fact, you're filling the entire 30 khz, OF A 10 KHz WIDE SIGNAL, you're overmodulating. Period. Most packet users without test equipment just tweak 'til someone sees data and call it good.

That said, your comment with 9600 is wwell taken. THAT said, there IS no universal bandplan across the US for packet or voice repeaters. Can't be, very well either. Before you guys grab the ARRL repeater directory, I recommend that you peruse it until you find the point that mentions local coordinators.

> Could it be you have a trick up your sleeve? Most sat folks are not
> operating at or near the sat band edges...most serious sat users have
> software to track and aim their antenna. Way too complex to do this manually.

What he's talking about is the move of SAREX to 145.80... as well as Mir's occasional use of the frequency.

> > I know it is after midnight, and this may be a knee jerk reaction, but I
> > am willing to MOVE. BUT lets all discuss this and see if we all agree?
>
> I agree, this needs to be discussed by the digital band planners in each
> region. Your proposal affects more than Aprs on 79. You are also asking
> the fellows running 9600 on 77 to also find a new frequency. Lets keep
> Aprs on a twenty kHz frequency so we have a chance of going 9600 in the
> future.

Point well taken. The use of 145.79 was not well coordinated. We're at a point where we can call on the local coordinators with a reasonable user base and move. And make a case for a unified frequency across the country. IF we work within the system.

> Lets ask the Aprs folks to contact their local and regional digital and
> repeater coordinators as listed in the ARRL repeater directory. Lets do
> this only after we define just what the problems are. You can probably
> only do this once, before you blow your credibility.

OK, folks, here is the challenge: Find your local coordinating body and work with them to GET A COORDINATED APRS FREQUENCY. Impress upon them why it cannot or should not be one of the heavily used packet channels. Maybe, demonstrate it to them. bring some of your public service tracks with you and show 'em on the laptop. Bring a tracker with you and show them that. It's a show-&-tell opportunity. And one that will be giving more credibility to the system.

68. Re: [APRSSIG:4842] CHANGE 145.79?!

From: birksd@cadvision.com (David R. Birks)
Date: Sun, 3 Dec 1995 10:40:15 -0700
To: aprssig@tapr.org
Message-ID: <9512031740.AA43788@huey.cadvision.com>
Rendered body type: text/plain

>Bob wrote:

Well, I just finished reading the latest AMSAT journal, and it seems
>clear to me that the 145.80 frequency for future manned spacecraft is
>pretty well established WORLDWIDE.
>
>Maybe we on APRS should move down 5 KHz to 145.785.
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>This would give us a 15 KHz split between the users down on 145.77 and
>the space guys on 145.80. That should work fine, since 15 KHz splits
>have been shown to work just fine on the 2 meter band with modern rigs.
>
>One further advantage is that most SPACE folks should be encouraged to
>monitor 145.805 since they will first hear the spacecraft with +3 KHz
>doppler anyway. Then they can tune downward if they want to track the pass.
>
>Many of us have invested heavily in xtals on 145.79. Probably most
>XTALS will tune down. Some won't. But now that MFJ is delivering their 5
>watt digital radios XTALD on 145.79, we need to make this decision
>quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals!
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>from space, it will not significantly affect .77 users. It is all-in-all
>the only possible solution. Some of us may need to re-crystal, but the
>peace-of-mind will be worth it.
>
>* I suggest that APRS stations put out bulletins on their local nets to
>find out who "can't" change their XTALS. Most nets may be able to
>shift over night (plus negotiating driving time to the digi sites from
>their wives).
>
>* To prevent overloading both the AMSAT and APRS nets with redundant
>traffic, let's assume that EVERYONE agrees. Only reply if you DISSAGREE
>or have another idea.
>
>* For the sake of discussion, would targeting something like 1 January
>give everyone a target date, either for "doing" or for "arguing", hi hi.
>
>DE WB4APR in Annapolis MD.
>
>-----
>My \$.02 worth of comments:

I am not flaming anybody here, just voicing my opinion on this subject.

I would rather not change from 145.79 either. I have 3 EPROM type radios that
are set up for 145.55, 145.79, 145.84R/144.45T etc. and it would cost me
about \$150 to change ANYTHING on those radios.

I also run a crystal controlled rig for my mobile tracker and \$24.00 would be
an optimistic estimate for obtaining crystals for that radio. That of course
does not include the costs of getting it re-tuned if needed.

Another radio is diode programmable so that is not too big of a deal to re-work
and set up on another frequency, but why?

I co-ordinated 145.79 over 2 years ago to be the province wide APRS frequency.
I did this to try to achieve some commonality with the rest of North America,
because I didn't want to see the hassle of having a repeater directory just
to find out which frequency I (or anybody else) should have to be on when
travelling around the country. Besides, I have more than enough money invested
in GPS's, computers, TNC's and the like that the idea of relatively cheap,

crystal controlled or EPROM radios appealed to me. There is a lot less flak from my wife if I can honestly say "That radio only cost \$50 at the Flea Market" as opposed to \$500 or \$1000 for a more modern fully tunable radio with all the bells and whistles. It is overkill to run a modern radio on one frequency for a dedicated purpose. I can't afford to do that, neither can anybody else that I know.

I was approached this past summer to move and I said "Why?" The answer, because 145.79 is reserved for digital modes. I said, what do you think APRS is? Some people have said that 145.79 is too close to the Satellite Band, interfering with Oscar 13 etc. If 145.79 is too close, isn't 145.80 for Manned Missions even closer, particularly when you consider the effects of Doppler Shift on their signal. Why did AMSAT pick such a stupid choice for Manned Missions? I was happy working MIR on 145.55 and the Shuttles on the previously used frequencies. So happy in fact, that I have 3 radios programmed for those frequencies!

The bottom line: I don't want to move from 145.79. If I have to move though, I will, but it had better be to a permanent frequency allocation for this use alone. I have too much invested to change everything at some petty beaurocrat's

slightest whim.

73 de Dave VE6MJR
Calgary, Alberta
E-Mail birksd@cadvision.com
73 de Dave

69. Re: [APRSSIG:4842] CHANGE 145.79?!

From: JAgrelo@aol.com
Date: Sun, 3 Dec 1995 12:55:06 -0500
To: aprssig@tapr.org
Message-ID: <951203125505_123671876@mail06.mail.aol.com>
Rendered body type: text/plain

To me, it appears that their is no other choice than to change our frequency, but not 145.785.

Because there is a 4-6 week lead time on our custom transmitter crystals, it would be best to make this decision sooner. When we run out of 145.790 crystals for the VFC400 & HPVFC transmitters, we will offer the new frequency what ever that may be, this should happen around Jan. 1st.or sooner.

Bob, like MFJ we don't want to get burned either, we still have quite a few crystals left for 145.790. and there not cheap either at about \$8 bucks each.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

70. Re: CHANGE 145.79?!

From: elekesa@cadvision.com (aaron elekes)
Date: Sun, 3 Dec 1995 11:39:36 -0700
To: aprssig@tapr.org
Message-ID: <9512031839_AA28584@huey.cadvision.com>
Rendered body type: text/plain

I think you guys are all NUTS! Most of my radio equipment is crystal controlled! Why should I change my equipment to meet someone elses? We have set the frequency at 145.790 both in Canada and the U.S. Now we want to F*** around with it! NOT! It is more trouble to move the frequency to meet the needs of AMSAT. Hell.... let them move..... cause I'm not!

My 2 cents worth!
De Aaron Elekes

71. Re: [APRSSIG:4826] MKMAPKKE

From: rwf <rwf@mindspring.com>
Date: Sun, 3 Dec 1995 14:15:59 -0500
To: aprssig@tapr.org
Message-ID: <199512031915.0AA15473@borg.mindspring.com>
Rendered body type: text/plain

Bill I think it is kswaggart@aol.com not kswaggert@aol.com

At 07:24 AM 12/2/95 -0600, you wrote:
>Ken Swaggert posted a message here stating that he had posted an updated
>version of MKMAPKKE on tapr but i sure can't find it, then i attempted to send
>Ken a e-mail message and it was returned by my postmaster saying there is no
>address like kswaggert@aol.com. Ok Ken whats up Hi...
>
>Bill KE4EER
>
>
>

72. Change 145.790

From: n0vkg@n0eir.ampr.org (Todd Hartzel)
Date: Sun, 03 Dec 95 13:12:29 CST
To: aprssig@tapr.org
Message-ID: <1358@n0eir.ampr.org>
Rendered body type: text/plain

Message-Id: 1358_n0eir
From: n0vkg@n0eir.#stl.mo.usa.noam (Todd Hartzel)
To: aprssig@tapr.org

Greetings,

Name here is Todd. Here in St Louis Mo we just got 145.790 as the local APRS channel. We were using 144.970 for a long time. APRS is growing here. A WIDE digi was installed in Edwardsville, IL. And one planned for Belleville, IL. Others are being planned for western suburbs of St Louis.

I think it would be a mistake to change 145.790. I'm sure in alot of other regions in country, APRS may just be getting off the ground as it is here Since 145.790 has been used for APRS for along time, and is well established , espeicallly on East coast, and the Space allocations haven't yet begun operations on 145.800, I think they should re-allocate the Space channels.

Keep this in mind, APRS is currently using 145.790 in alot of areas. However MIR and others are using 145.550 and others to-this-day. To-put-it-simple, APRS was there first. I think that future Space allocations should be designed around services already in place <period>. At least in terms of 145.800 <period>. Having those planned for 145.800 put on 145.815 or 145.820 isn't going to be as much as a problem as moving the WHOLE APRS NETWORK off of 145.790

Just remember, APRS is coordinated on 145.790. It is being used for APRS. Its intended purpose. And it is growing rapidly. It is a true network. The MIR and other space services have been using other channels for a long time and are now planning to move to a channel that will cause interference with the APRS NETWORK.

In any case, I got my two-cents worth in. I like APRS. Its popularity here in St Louis is growing. And hope it conrinues. Being on 145.790 as opposed to 144.970 offers alot of advantages here. 144.970 is a packet network channel. Linked into the WAN network here. 145.790 is independant. No packet-network nodes on it. And none planned. Just more WIDE digis.

73 de todd / n0vkg
packet address: n0vkg @ n0eir.#stl.mo.usa.na
tcpip address: n0vkg % n0vkg @ n0eir.ampr.org
internet address: n0vkg @ n0eir.ampr.org

73. Re: [APRSSIG:4842] CHANGE 145.79?!

From: moyers@ibm.net
Date: Sun, 03 Dec 95 14:42:27 +0000

To: aprssig@tapr.org
Message-ID: <9512032305.AA0064@localhost>
Rendered body type: text/plain

> Well, I just finished reading the latest AMSAT journal, and it seems
> clear to me that the 145.80 frequency for future manned spacecraft is
> pretty well established WORLDWIDE.

More poor planning by AMSAT.

>
> Maybe we on APRS should move down 5 KHz to 145.785.

NEGATIVE!... This Violates the Band plans for most regions. More specifically SERA's bandplan. Which I believe the state of Virginia, along with 8 other states, has as their coordinating body. SERA adopted many years ago a 20 Kc (KHz) separation for packet frequencies, on the advice of many Packet users/coordinators in the member states. I regret that use of 145.790 causes problems for AMSAT/SAREX but this was discussed at the first SAREX mission. 145.79 is used daily, 145.80 however is only used during SAREX missions and not on a continuous basis then. So why completely restructure the bandplans for the whole world for a USER (SAREX) who is parttime at best. The easiest cure if it's just 5 Kc's would be for SAREX to move up freq 5 or 10.

Now lets get to the brass facts. Most high profile digis are XTAL controlled. Yes, most can be shifted 5 Kc's but the Xtal's are not nearly as stable in that state. Secondly, XTAL's cost \$25 - \$50 a set. Multiplied by several digi's + time to install and realign the radio's it won't take long to achieve \$\$\$\$\$\$ that could be better spent on improving the network. I have one digi up now, and just ordered more XTAL's for some more radio's a few weeks ago. NOW IS NOT THE TIME TO WORRY ABOUT SAREX, THAT TIME WAS YEARS AGO WHEN 145.79 WAS AGREED TO. AMSAT should have looked at the bandplan's better. Of course they are also trying to coordinate this with the European plan's....that's life.

Bob, I am curious though, how does this tie into your AMSAT/APRS programming you have been working on and tested a couple of missions back??

73, and my vote is NO, and will shut my nodes down before moving to 145.785.

John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

74. Re: [APRSSIG:4846] Re: CHANGE 145.79?!

From: ke4eer@ro.com (William Nolle)
Date: Sun, 03 Dec 1995 14:25:24
To: aprssig@tapr.org
Message-ID: <199512032133.PAA13756@sh1.ro.com>
Rendered body type: text/plain

Bob as you well know the problems i had getting 145.790 coordinated here in North Alabama it took all of 16 to 18 month's to convince the thick headed hams around herethat APRS was usefull and should be just as much a part of ham radio then any other digital mode. You know you heard part of it traveling trough this area during your trip to Florence i'm not about to go trough that again after those thick headed hams finally agree that YES maybe APRS does work and does have more users then just KE4EER that new ham in Hazel green. I haven't had any complaints about it being to close to another frequency to cause interference. Realy i always get told by digi owners in Alabama 145.790 doesn't need to be coordinated so maybe those users will vote for the move, but i have coordination papers for North Alabama and don't want to change.

So i Vote STAY on 145.790

Bill KE4EER

75. Re: [APRSSIG:4827] MKMAPKKE.ZIP now at tapr

From: w2g3zfy@unix.asb.com (bob)
Date: Sun, 03 Dec 1995 16:21:20 -0500
To: aprssig@tapr.org
Message-ID: <199512032225.QAA14838@UNIX.asb.com>
Rendered body type: text/plain

Hi Ken

Nice job on the program, however, is there a bug in the use of the '-' before entering the range? When I used it today the '-' didn't make any difference, just got lots of features and the program bombed out. I tried the mkmapk1 and that worked OK.

Any ideas?

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com

>Don't know what happend to the first upload. Just uploaded again to:
>
>tapr.org:/tapr/SIG/aprssid/upload at 0700 PST, Saturday,2 DEC. This time I
>checked the directory and confirmed it is there. Strange.
>
>I'm still here at kswaggart@aol.com
>
>73, Ken, W7KKE
>
>

76. Re: [APRSSIG:4841] New Address

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sun, 3 Dec 1995 15:49:36 -0600
To: aprssid@tapr.org
Message-ID: <9512032149.AA23060@omnifest.uwm.edu>
Rendered body type: text/plain

Ed,

I've tried to send you 1/2 dozen messages.

I'd like to thank you for the Grayslake seminar.

I get down to Chicago occasionally for a computer meeting -
What repeater should I try you on????

I am the Frequency Coordinator for Wisconsin. Do you need to
contact the FC for IL? I can get you his address. jruck@heartland.
bradley.edu (sorry for the line split).

What can I do to help?

Dick Isley is on mcs - sounds like a VERY good deal!

73 de Dave Barrow, N9UNR
FC-WI WAR-MAAC
n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu

77. Re: [APRSSIG:4850] Re: CHANGE 145.79?!

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sun, 3 Dec 1995 16:04:37 -0600
To: aprssid@tapr.org
Message-ID: <9512032204.AA19496@omnifest.uwm.edu>
Rendered body type: text/plain

Demos,

Glad to hear from another Pinnellan. I practiced law in Pinellas
Park for 12 years before moving to Wisconsin.

Please keep in touch. I miss all the nice folks down there.

Merry Christmas from Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu

78. Re: [APRSSIG:4842] CHANGE 145.79?!

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Sun, 3 Dec 1995 14:05:26 -0800
To: aprssid@tapr.org
Message-ID: <199512032205.OAA25293@ix8.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>Maybe we on APRS should move down 5 KHz to 145.785.

I think 15 KHz spacing (between .77 and .785) is just too close for urban
areas for this to work without creating new interference problems.
Consider the direct line-of-sight paths that exist between APRS
digipeaters installed at "real" radio sites and corresponding .77 nodes or
BBS equipment on similar "real" radio sites. I'd be more concerned about
the systems on .77 interfering with the APRS network, since it is likely

that those systems would be running much higher power levels than the typical APRS station or digi.

It would probably accomplish more if we were all to ensure that the APRS network remains a "low power" network by keeping RF power output levels at digipeaters at five watts, and closely watching our deviation levels. Many of us do not have access to deviation meters or service monitors, but there is a way to set deviation adequately without test equipment. Simply monitor the AFSK audio level on another receiver and bring up the level until it doesn't go up any more, then, lower it until the audio level is significantly lower (about 3 dB) than it was at its maximum. It will still work just as good for us, perhaps even better - less RF gets spread outside of the limits of the receiver's IF filters.

Jack

79. Re: [APRSSIG:4854] Re: CHANGE 145.79?!

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sun, 3 Dec 1995 16:14:24 -0600
To: aprssig@tapr.org
Message-ID: <9512032214.AA06430@omnifest.uwm.edu>
Rendered body type: text/plain

Gary and I are coordinators. We can pass your messages to the coordinator's remailer.....

What do you want?

Ther is NO country-wide band-plan. If you need something NOW is the time to ask for it - before there is mandatory (whatever).

Let us know - we really want to help.

73 de Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu

80. 145.80 Manned Space frequency.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 3 Dec 1995 22:40:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951203211750.3293B-100000@greatlakes>
Rendered body type: text/plain

I guess in my earlier posting I did not explain adequately the "problem". I subscribe to both the APRS and the AMSAT sig and so have been watching the debate over the last two years about the emergence of 145.80 as the only workable worldwide frequency for Manned SPace communications. When I first heard about it, I argued for them to move up 5 kz to be INSIDE the satellite band, but the legacy of 2 years of diplomatic wrangling has decided on 145.80 for a milllion reasons apparently. Here is one stab at a summary:

- * Most of the rest of the world only has a 2 MHz wide 2 meter band NOT 4 Mhz as we enjoy here. The repeater frequency of 145.80 (-600) after years of work, has finally been abandoned by terrestrial users in Europe for the sake of international space coordination.

As you can imagine, you cannot sit down and negotiate a worldwide single frequency with every local coordinating body, they had to work from the top down working with the national organizations. You ask, why not let them use that freq over there, and 145.55 over here?

- * The space stations will be within radio range of just about everyone on earth 6 times a day, 24 hours a day 365 days a year.

- * They complete 15 orbits a day and go completely around the earth in 100 minutes. It is impractical to expect them to QSY every 20 minutes. Yes YOU can do that under contest conditions, but not day-in-day-out for the rest of your life...

So, here we sit on 145.79. The SPACE station will not interfere much with us, but we will surely distroy any practical use of 145.80 for the space stations and for all of us who wish to play with the space stations. That is the "problem". It is NOT today's problem, but it is TOMORROWS problem.

As we see more growth on APRS, we are heading pel-mel toward a collision. YES, moving down 5Khz to 145.785 would mess up most US band plans. And

would squeeze the top two digital channels to 15 KHz channels. But in the long run, having two 15KHz channels is better than losing ONE! (The APRS one!)

Of course the 15KHz vs 20KHz controversy still rages, but in our area, there are 53 two meter repeaters operating on 15 KHz channels quite well. It all depends on your rig. Rather than arguing the emotions, please test your radio. Just tune 15 KHz above or below your local REPEATERS and see if you hear splatter. If you hear nothing, or another repeater, then you have just proved that 15KHz splits work with decent radios. 20 year old radios will NOT pass this test. Most modern ones WILL.

Most commercial services are going to 12.5 KHz channels. IT DOES WORK.

Yes, this 15KHz split channel may force us to a future limit of 4800 baud on 145.77 and .785.. That is the PRICE. But what will be the cost of conflict for the rest of our lives over 80 and 79?

SO. There's the problem. (and what I thought was a solution)... oh well.

Forget the 1 January target date. That WAS stupid on my part. But if you think you have coordinated 145.79, then GO TO YOUR COORDINATING BODY AND ASK THEM WHAT THEY ARE GOING TO DO ABOUT THE IARU INTERNATIONAL COMMITMENT TO 145.80. More than likely nothing. And we are going to get burned in the long run...

81. Re: [APRSSIG:4862] Re: MKMAPKKE.ZIP now at tapr

From: William Richarz <wricharz@ix.netcom.com>
Date: Sun, 03 Dec 1995 23:58:32 -0500
To: aprssig@tapr.org
Message-ID: <199512040459.UAA20013@ix8.ix.netcom.com>
Rendered body type: text/plain

At 03:30 PM 12/3/95 -0600, you wrote:

>Hi Ken

>

>Nice job on the program, however, is there a bug in the use of the '-'
>before entering the range? When I used it today the '-' didn't make any
>difference, just got lots of features and the program bombed out. I tried
>the mkmapkh1 and that worked OK.

>

>

>73 de bob w2/g3zffj

>w2g3zffj@unix.asb.com

I have run into the same problem here, most maps just bomb for me too.

Bill Richarz <WA4VAF>
wricharz@ix.netcom.com

82. metor scater on 6m ?

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Mon, 04 Dec 1995 02:33:02 EST
To: <APRSSIG@tapr.org>
Message-ID: <04DEC95.02754875.0063.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

I intend to put up a 6m station for the ms event here is my idea
so flame away. hihi

does any body out there have any problem with 50.62 Mhz as recommended
in the docs of aprs?

would it be a problem if the speed was only 1200 baud as this could be
done easy as pie for me and many others who have 6m radios and 1200 tncs
My station can consist of an azden 50w and a 1/4 vertical will this be enough
power/gain for this event or am i spinning my wheels?

I have talked to a nother station who may be able to put up a 6m station
at a high site for the event as well in atlanta ga (im in athens 70 to
the north east)

if anybody can also tell me the date of the event as i have not heard
any thing about it for a week on the sig that will give me an idea if
this is do-able or worth wild
thanks Lynn n4yci at Univ of Georgia

83. Re: [APRSSIG:4857] Re: CHANGE 145.79?!

From: rkramer@cdx.net (Ronald Kramer)
Date: Mon, 04 Dec 1995 03:36:39 GMT
To: aprssig@tapr.org

Message-ID: <30c2694a.26704392@mail.cdx.net>

Rendered body type: text/plain

On Sun, 3 Dec 1995 12:52:42 -0600 (CST), you wrote:

>
> I think you guys are all NUTS! Most of my radio equipment is
> crystal controlled! Why should I change my equipment to meet someone
> elses? We have set the frequency at 145.790 both in Canada and the U.S.
this type of typing is not necessary....
> NOT! It is more trouble to move the
> frequency to meet the needs of AMSAT. Hell.... let them move..... cause
> I'm not!
>
>
> My 2 cents worth!
> De Aaron Elekes
> VE6FXR
> E-mail- ve6fxr@amsat.org
>
As far as a freq is concerned 145.790 is a co-ordinated freq.
In Canada it has been used by other packet modes before
APRS came along and to do away with any problems with
co-ordination across this Country.
When CRRL set up the Canadian Frequencies it was decided
to chose a freq for APRS that did not effect any other packet
system in use. It was mutually decided to use 144.390, as
NO other packet stations were using it and make it an
exclusive "NATIONAL" APRS frequency CANADA wide.
The "Ontario / WNY Packet Advisory Group" led the way
in this decision.
Ontario and Western New York are have been using 144.390
for the last year for APRS.
If you are going to move your 145.790 at all let it be to a
co-ordinated frequency, that is NOT being used by anyother
packet or FM mode. Might I suggest doing as Canada has
done and move down to 144.390 across all of North America.

This is my 2 cents worth, and please forgive the VE6's use
of foul ****'s

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

84. RE: [APRSSIG:4861] Re: CHANGE 145.79?!

From: "Towers, Donald F." <dtowers@immcms1.redstone.army.mil>
Date: Mon, 04 Dec 95 08:19:00 CST
To: aprssig <aprssig@tapr.org>
Message-ID: <30C311DB@immcm1.redstone.army.mil>
Rendered body type: text/plain

BILL i AM with YOU i will not change i have a just brought a data radio for
aprs just for it i will not change freq it cost what \$24.00 to change freq
in it

by the way could you send me your latest map of huntsville or upload it to
aprs for me
thanks for the coor of my location now it will be my beacon text
of cruise missile coordinates.

From: aprssig
To: aprssig
Subject: [APRSSIG:4861] Re: CHANGE 145.79?!
Date: Sunday, December 03, 1995 2:34PM

Bob as you well know the problems i had getting 145.790 coordinated here
in North Alabama it took all of 16 to 18 month's to convince the thick
headed
hams around herethat APRS was usefull and should be just as much a part of
ham radio then any other digital mode. You know you heard part of it
traveling
through this area during your trip to Florence i'm not about to go through
that
again after those thick headed hams finally agree that YES maybe APRS does
work and does have more users then just KE4EER that new ham in
Hazel green. I haven't had any complaints about it being to close to another

frequency to cause interference. Really i always get told by digi owners in Alabama 145.790 doesn't need to be coordinated so maybe those users will vote for the move, but i have coordination papers for North Alabama and don't want to change.

So i Vote STAY on 145.790

Bill KE4EER

85. Frequency Change???

From: Ke4rvp@aol.com
Date: Mon, 4 Dec 1995 07:09:18 -0500
To: aprssig@tapr.org
Message-ID: <951204070916_43631862@mail02.mail.aol.com>
Rendered body type: text/plain

A very wise man once said, "If it ain't broke, don't fix it!!! ". I think this holds true to 147.79. Have there been complaints? Has there been interference? If the freq is coordinated, are not the uncoordinated users supposed to move?

My vote: No Move

73 de ke4rvp@aol.com

86. Re: [APRSSIG:4855] Re: CHANGE 145.79?!

From: mwalker@interlog.com (Mike Walker)
Date: Mon, 04 Dec 95 08:36:08 EST
To: aprssig@tapr.org
Message-ID: <199512041336.IAA13146@gold.interlog.com>
Rendered body type: text/plain

To open another can of worms, RAC (Radio Amateurs of Canada), recommended that 144.390 be used as an APRS frequency in Canada. At this point we cover about 1/2 the width of Ontario (300 miles, Buffalo, and North about 80 miles out of Toronto. We are all on 144.390.

The other thing to consider is: Is the AMSAT plan set in stone. If you let them know that 200 digi's are on 145.790, in North America, they might reconsider their plan.

regards...mike

On Sun, 3 Dec 1995 11:53:20 -0600 (CST) you wrote:

>>Bob wrote:
>
>Well, I just finished reading the latest AMSAT journal, and it seems
>>clear to me that the 145.80 frequency for future manned spacecraft is
>>pretty well established WORLDWIDE.
>>
>>Maybe we on APRS should move down 5 KHz to 145.785.
>>
>>This would give us a 15 KHz split between the users down on 145.77 and
>>the space guys on 145.80. That should work fine, since 15 KHz splits
>>have been shown to work just fine on the 2 meter band with modern rigs.
>>
>>One further advantage is that most SPACE folks should be encouraged to
>>monitor 145.805 since they will first hear the spacecraft with +3 KHz
>>doppler anyway. Then they can tune downward if they want to track the pass.
>>
>>Many of us have invested heavily in xtals on 145.79. Probably most
>>XTALS will tune down. Some won't. But now that MFJ is delivering their 5
>>watt digital radios XTALD on 145.79, we need to make this decision
>>quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals!
>>I don't want to see them get burned...)
>>
>>I know it is after midnight, and this may be a knee jerk reaction, but I
>>am willing to MOVE. BUT let's all discuss this and see if we all agree?
>>
>>In conclusion:
>>
>>* It will work. It solves the conflict. It supports MANNED HAM radio
>>from space, it will not significantly affect .77 users. It is all-in-all
>>the only possible solution. Some of us may need to re-crystal, but the
>>peace-of-mind will be worth it.

```

>>
>>* I suggest that APRS stations put out bulletins on their local nets to
>>find out who"cant" change their XTALS. Most nets may be able to
>>shift over night (plus negotiating driving time to the digi sites from
>>their wives).
>>
>>* To prevent overloading both the AMSAT and APRS nets with redundant
>>traffic, lets assume that EVERYONE agrees. Only reply if you DISSAGREE
>>or have another idea.
>>
>>* For the sake of discussion, would targeting something like 1 January
>>give everyone a target date, either for "doing" or for "arguing", hi hi.
>>
>>DE WB4APR in Annapolis MD.
>>
>>-----
>>My $.02 worth of comments:
>
>I am not flaming anybody here, just voicing my opinion on this subject.
>
>I would rather not change from 145.79 either. I have 3 EPROM type radios that
>are set up for 145.55, 145.79, 145.84R/144.45T etc. and it would cost me
>about $150 to change ANYTHING on those radios.
>
>I also run a crystal controlled rig for my mobile tracker and $24.00 would be
>an optimistic estimate for obtaining crystals for that radio. That of course
>does not include the costs of getting it re-tuned if needed.
>
>Another radio is diode programmable so that is not too big of a deal to re-work
>and set up on another frequency, but why?
>
>I co-ordinated 145.79 over 2 years ago to be the province wide APRS frequency.
>I did this to try to achieve some commonality with the rest of North America,
>because I didn't want to see the hassle of having a repeater directory just
>to find out which frequency I (or anybody else) should have to be on when
>travelling around the country. Besides, I have more than enough money invested
>in GPS's, computers, TNC's and the like that the idea of relatively cheap,
>crystal controlled or EPROM radios appealed to me. There is a lot less flak
>from my wife if I can honestly say "That radio only cost $50 at the Flea Market"
>as opposed to $500 or $1000 for a more modern fully tunable radio with all the
>bells and whistles. It is overkill to run a modern radio on one frequency for
>a dedicated purpose. I can't afford to do that, neither can anybody else that
>I know.
>
>I was approached this past summer to move and I said "Why?" The answer, because
>145.79 is reserved for digital modes. I said, what do you think APRS is? Some
>people have said that 145.79 is too close to the Satellite Band, interfering
>with Oscar 13 etc. If 145.79 is too close, isn't 145.80 for Manned Missions
>even closer, particularly when you consider the effects of Doppler Shift on
>their signal. Why did AMSAT pick such a stupid choice for Manned Missions? I
>was happy working MIR on 145.55 and the Shuttles on the previously used
>frequencies. So happy in fact, that I have 3 radios programmed for those
>frequencies!
>
>The bottom line: I don't want to move from 145.79. If I have to move though, I
>will, but it had better be to a permanent frequency
>allocation for this use alone. I have too much invested
>to change everything at some petty beaucrocat's
>slightest whim.
>
>73 de Dave VE6MJR
>Calgary, Alberta
>E-Mail birksd@cadvision.com
>73 de Dave
>
>
>

```

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

87. re CHANGE 145.79?

```

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>
Date: Mon, 4 Dec 1995 06:04:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9512040603.A10269-9100000@acme>

```

Rendered body type: text/plain

DO NOT MAKE THE CHANGE - change will be very detrimental to the continued growth/acceptance of APRS - one bone of contention with many other spectrum users (i.e., voice & packet) is our need for an APRS frequency. It is doubtful whether the change will have a significant impact on a perceived problem.

73s de W8RIK

88. RE: [APRSSIG:4866] Re: CHANGE 145.79?!

From: "Towers, Donald F." <dtowers@imcms1.redstone.army.mil>
Date: Mon, 04 Dec 95 08:33:00 CST
To: aprssig <aprssig@tapr.org>
Message-ID: <30C31562@imcmmail.redstone.army.mil>
Rendered body type: text/plain

I am in Huntsville ALA
the freq 145.010 is used
the freq 145.090 is used
i just bought a mfj data radio just for APRS spent the more money
to get on freq for APRS , I thank it is a very big mistake to give up the
freq 145.790

THANKS
DON TOWERS
KD4YNG

From: aprssig
To: aprssig
Subject: [APRSSIG:4866] Re: CHANGE 145.79?!
Date: Sunday, December 03, 1995 4:25PM

Gary and I are coordinators. We can pass your messages to the
coordinator's remailer.....

What do you want?

Ther is NO country-wide band-plan. If you need something NOW
is the time to ask for it - before there is mandatory (whatever).

Let us know - we really want to help.

73 de Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu

89. Re: CHANGE 145.79?!

From: dwetzel@acs.uswest.com
Date: Mon, 4 Dec 1995 07:55:34 -0600
To: aprssig@tapr.org
Message-ID: <0c306240@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

If the SAREX coordinators were informed of how much activity there is
now on 5.79 APRS, perhaps they would consider using .80 as a secondary
or emergency only downlink. Last SAREX, all I heard was activity on
.84, anyway. As for MIR, they seem pretty happy on .55 at the moment,
especially with the new 440 gear on board.

Has someone on the sig contacted the SAREX coordinators with good data
about the rapid spread of APRS and the probability of interference
with the 5.80 downlink? Do we need to "officially" sanction a
national APRS spokesperson?

One last comment - we should in good engineering practice make sure
that all of our digis have the minimum possible deviation consistent
with reliable operation. That will certainly go a long way toward
minimizing problems should we remain on .79, and make us good
neighbors in the spirit of ham radio anyway. Borrow a dev meter and
make sure!

I vote no on the move, but will do what's best for APRS, xtals or no.

Doug
KC7CO
dwetzel@acs.uswest.com

90. Re: [APRSSIG:4803] Re: COM-BUFFER-OVERRUN errors

From: S.Miller@rus.uni-stuttgart.de (Shannon Miller)
Date: Mon, 4 Dec 1995 09:10:43 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9512040810.AA04440@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

Bob Bruninga writes:

>
> On Thu, 30 Nov 1995 moyers@ibm.net wrote:
>
> > I seem to be getting Comm-Buffer-Overrun errors anytime I am typing
> > comments to another station...
>
> APR REPLY: Type FASTER! APRS ignores the COM ports while you are typing
> in response to a PROMPT. Your buffers are overflowing..

Any chance of making the COM buffers configurable -- so that those with more memory than they know what to do with can make use of it? Or is that something that's hard-coded into the language COM services?

--Shannon, DL6SEU

91. Re: [APRSSIG:4867] 145.80 Manned Space frequency.

From: "Demos Doulou" <ddoulou@tesla.netline.net>
Date: Mon, 4 Dec 1995 11:51:24 +0005
To: aprssig@tapr.org
Message-ID: <199512041650.LAA10781@tesla.netline.net>
Rendered body type: text/plain

> Date: Mon, 4 Dec 1995 08:41:44 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4867] 145.80 Manned Space frequency.

d Of course the 15KHz vs 20KHz controversy still rages, but in our area,
> there are 53 two meter repeaters operating on 15 KHz channels quite
> well. It all depends on your rig. Rather than arguing the emotions,
> please test your radio. Just tune 15 KHz above or below your local
> REPEATERS and see if you hear splatter. If you hear nothing, or another
> repeater, then you have just proved that 15KHz splits work with decent
> radios. 20 year old radios will NOT pass this test. Most modern ones WILL.
>
> Most commercial services are going to 12.5 KHz channels. IT DOES WORK.
>
d

Our experience here in Pinellas County is that 15 khz spacing will only work if there is at least 20 miles separation between receiver and transmitter. Our problem with our repeater spaced 15 khz from the Tampa machine is not the repeaters themselves, but with users who our working the Tampa machine within 20 miles of the Pinellas machine. The result is splatter making the Pinellas machine unusable. 15 Khz will not work with close spacing, and you will have close spacing on packet channels

73 Demos KR4US

See Ya
Demos

92. Re: [APRSSIG:4842] CHANGE 145.79?!

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Sun, 03 Dec 1995 21:48:04 -0600
To: aprssig@tapr.org
Message-ID: <9512032148.AA04864@oscar.tbr.state.tn.us>
Rendered body type: text/plain

> Well, I just finished reading the latest AMSAT journal, and it seems
> clear to me that the 145.80 frequency for future manned spacecraft
> is pretty well established WORLDWIDE.

Can you expand on how you came to this conclusion? How long manned missions have been using this frequency? Who (Worldwide) decided to use this frequency? How often are they using this frequency?

> Many of us have invested heavily in xtals on 145.79. Probably most

> XTALS will tune down. Some wont. But now that MFJ is delivering
> their 5 watt digital radios XTALD on 145.79, we need to make
> this decision quickly and get on with it. (MFJ finally agreed to
> STOCK .79 xtals!
> I dont want to see them get burned...)

I currently have 1 digi up and running one that should be up within two weeks and another that I hope to have up before the end of the year. All of the radios and TNCs have been aquired and only antennas and feedline are the last issues to be completed. Retuning these at this point would not be a trivial matter. This does not take into account the standalone and other mobile trackers. While I know that the whole country is not on 145.79 MHz for APRS, everyone around here is and more and more people are joining in. It would seem to me that the space users should rethink their position. I will agree that I do not have all the information needed to be firm on my position but with what I have now I think that moving APRS to 145.785 MHz would be a mistake and would affect more people than the space user community having to move over a little.

That's my opinion, oughta be yours. ;{} (hi hi)

73 de KQ4TV

93. Tiny-2 help needed

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Sun, 03 Dec 1995 20:50:12 -0600
To: aprssig@tapr.org
Message-ID: <9512032050.AA12043@oscar.tbr.state.tn.us>
Rendered body type: text/plain

I am trying to get more folks in the area into APRS. A few of them have the Tiny-2 TNC but have not been able to get things to work. Are there any special parameters or settings that are needed to get APRS to work with a Tiny-2.

Your assistance is appreciated,

73 de KQ4TV

94. Re: [APRSSIG:4876] Re: CHANGE 145.79?!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 4 Dec 1995 12:00:33 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512041800.MAA09481@solar.cs.tamu.edu>
Rendered body type: text/plain

dwetzel@acs.uswest.com sez:

>
> If the SAREX coordinators were informed of how much activity there is
> now on 5.79 APRS, perhaps they would consider using .80 as a secondary
> or emergency only downlink. Last SAREX, all I heard was activity on
> .84, anyway. As for MIR, they seem pretty happy on .55 at the moment,
> especially with the new 440 gear on board.
>
> Has someone on the sig contacted the SAREX coordinators with good data
> about the rapid spread of APRS and the probability of interference
> with the 5.80 downlink? Do we need to "officially" sanction a
> national APRS spokesperson?

When we started trying to migrate out of the general use band segment and toward the Space segment, APRS was a very small, and non-accelerating, portion of packet. I have seen significant interest growth and utility evolve over just the last 6 months. Over the last year, it's been pretty phenomenal.

SAREX has had to contend with DX Clusters, complaints from BBS's and with the European standards that we violated. AMSAT negotiated a plan internationally that will work. It took time, effort and money to get it accomplished. It's not likely to change because of 200 digi's, or so.

All in all, Mir's crews are busier over the long haul than the shuttle crews, with some notable exceptions. Also, the Shuttle crews have a better grasp of how to manipulate their radios than the guys on Mir. N6JLH spent months working out a set of frequencies for Mir to use besides 145.55, and training them long-distance to make the frequency changes. Get a grip: These guys are sharp, but ham radio's not at the forefront of their lives.

> One last comment - we should in good engineering practice make sure
> that all of our digis have the minimum possible deviation consistent
> with reliable operation. That will certainly go a long way toward
> minimizing problems should we remain on .79, and make us good

> neighbors in the spirit of ham radio anyway. Borrow a dev meter and
> make sure!

Better yet, borrow a service monitor and make sure it's ALL set up right.
This point is well taken. I've heard folks on here claim they were filling a
30 khz segment of band with a 1200 baud packet signal. This is indicative of
a problem. For the record, SAREX is configured for 2.5 khz deviation and
works fine. Audio inspection of a number of the TNC setup's around here
suggests they are overmodulating, which is actually a testimony to the
demodulators, and says little positive about the way the rigs were configured.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

95. 15 kHz spacing and APRS

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Mon, 4 Dec 1995 10:00:18 -0800
To: aprssig@tapr.org
Message-ID: <199512041800.KAA25187@ix3.ix.netcom.com>
Rendered body type: text/plain

Regarding an earlier comment that 15 kHz spacing works fine for
repeaters, etc., there is a reason that it works. The coordinating
body uses criteria for co-channel and adjacent channel separation to
help prevent interference. Systems destined to operate on adjacent
channels must be separated by a certain distance to prevent adjacent
channel interference. Yes, packet could work as well, but stringent
adjacent channel separation guidelines would need to be developed and
followed. We would not have anywhere near the degree of flexibility we
enjoy now when placing digipeaters on the air. It's possible that home
stations may need to be coordinated as well.

Another problem - repeaters use frequency pairs separated by 600 kHz.
This makes it impossible for a *repeater* to interfere with another
repeater. In repeater frequency coordination we are more concerned
about adjacent channel interference from a nearby repeater to mobiles
and portables operating on a given channel. But, with packet, just
about everything is simplex. Simplex packet digipeaters and nodes
located at good radio sites stand a much better chance of creating
adjacent channel interference to each other, since now we're talking
about "base to base" interference instead of "base to mobile". The
path is now a line-of-sight path with much less attenuation.

Jack

96. Re: [APRSSIG:4870] Re: CHANGE 145.79?!

From: elekesa@cadvision.com (aaron elekes)
Date: Mon, 4 Dec 1995 11:15:54 -0700
To: aprssig@tapr.org
Message-ID: <9512041815.AA65044@huey.cadvision.com>
Rendered body type: text/plain

..
>As far as a freq is concerned 145.790 is a co-ordinated freq.
>In Canada it has been used by other packet modes before
>APRS came along and to do away with any problems with
>co-ordination across this Country.
>When CRRL set up the Canadian Frequencies it was decided
>to chose a freq for APRS that did not effect any other packet
>system in use. It was mutually decided to use 144.390, as
>NO other packet stations were using it and make it an
>exclusive "NATIONAL" APRS frequency CANADA wide.
>The "Ontario / WNY Packet Advisory Group" led the way
>in this decision.
>Ontario and Western New York are have been using 144.390
>for the last year for APRS.
>If you are going to move your 145.790 at all let it be to a
>co-ordinated frequency, that is NOT being used by anyother
>packet or FM mode. Might I suggest doing as Canada has
>done and move down to 144.390 across all of North America.
>
>This is my 2 cents worth, and please forgive the VE6's use
>of foul ****'s
>
>Regards, Ron ...

73 de Ron

> Internet: rkramer@cdx.net (Ron Kramer)
> Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
>

It wasn't foul! It was senced! Anyways, whoever set the frequency for Canada is an idiot! We set 145.790 over 2 years ago for Alberta. Then RAC comes along and moves it on us down to 144.390. WHY! I would like to stay where it is compatible with other countries. Also, 145.790 freq is reserved for digital mode in the RAC spectrum. What do you think APRS is? So I am staying!

>
De Aaron Elekes
VE6FXR
E-mail- ve6fxr@amsat.org

97. Re: [APRSSIG:4847] CHANGE 145.79?!

From: schwab@cent.com (Chris Schwab)
Date: Mon, 4 Dec 1995 12:39:22 -0600
To: aprssig@tapr.org
Message-ID: <199512041839.MAA23483@ns.cent.com>
Rendered body type: text/plain

With all the hard work it has taken, I believe that it would be a bad idea to change the frequency... Personally, I have a radio rock bound, and I realize that it is only \$25.00 to change the crystals... But I am just a user. What about all the digis out there??

Just my two cents worth...

```
-----
|      Chris Schwab KD4PHS      |
|      KD4PHS @ AMSAT.ORG      |
|      KD4PHS @ W4DPH.#TPA.FL.USA.NOAM |
|      schwab@cent.com         |
|      http://cent.com/schwab   |
|      Fidonet 1:3603/73 -or- 1:3603/20030 |
|                               |
|-----|
```

98. Spartan Packet Radio Experiment

From: Doug Woodruff <102256.1216@compuserve.com>
Date: 04 Dec 95 13:38:46 EST
To: TAPR E-mail Forum <aprssig@tapr.org>
Message-ID: <951204183846_102256.1216_BHB129-1@CompuServe.COM>
Rendered body type: text/plain

I hadn't seen this on the SIG and thought everyone would enjoy it.

Doug Woodruff, KM4HY.....

```
=====
=====
=From: tedwards@Glue.umd.edu (Thomas Grant Edwards)
=Newsgroups: rec.radio.amateur.space,rec.radio.amateur.misc,sci.space.shuttle
=Subject: SPARTAN PACKET RADIO EXPERIMENT (SPRE) in January!!
=Date: 1 Dec 1995 14:36:02 -0500
=Organization: Project Glue, University of Maryland, College Park
=Lines: 181
=Message-ID: <49nlf2$375@volt.isr.umd.edu>
=NNTP-Posting-Host: volt.isr.umd.edu
=Xref: hobbess.cc.uga.edu rec.radio.amateur.space:5831
rec.radio.amateur.misc:50969 =sci.space.shuttle:24578
=
=
=SPARTAN PACKET RADIO EXPERIMENT (SPRE)
=====
=
=General Information (long)
=
=By: Ken McCaughey (N3FZX)
=File: spre02pr.txt
=Date: 29-Nov-95
=
=
=The Spartan Packet Radio Experiment (SPRE) is an Amateur Radio (HAM radio)
=communications experiment. The primary mission is to test satellite
=tracking using amateur packet radio and a Global Positioning System (GPS).
```


=SPRE was developed and built by the University of Maryland Amateur Radio Association (UMARA) with assistance from NASA, volunteer engineers, and volunteer software professionals.

=

=SPRE is one of four experiments on NASA's Spartan/OAST-Flyer spacecraft.

=The Spartan spacecraft is scheduled for launch on January 11, 1996 aboard the space shuttle Endeavour as part of mission STS-72. The spacecraft is a cube shaped, battery powered, retrievable satellite. Spartan will be deployed by the shuttle's robot arm and likewise retrieved after approximately 48 hours of free flight.

=

=

=Mission Objectives:

=

- =* Promote amateur radio and amateur satellite communications.
- =* Test GPS and packet radio based tracking system using a Low Earth Orbit (LEO) satellite.
- =* Provide an educational tool to inspire elementary and high school students to pursue science and engineering.
- =* Provide a unique hands-on educational opportunity for college students.

=

=

=SPRE is designed to relay ground station positions and transmit telemetry containing the GPS location of the spacecraft and housekeeping data. The GPS data is generated by another Spartan experiment.

=

=Special software called APRtrak (tm) will be used at SPRE ground stations to plot the positions of stations and objects world-wide using SPRE transmissions. APRtrak uses full color maps and graphics with the capability to display detail maps of selected geographic regions. Amateur radio ground stations can transmit their locations to SPRE, and if heard, SPRE will relay GPS information back to Earth. All ground stations within range of SPRE will see the relayed stations plotted at the on the map at the correct geographic location. The APRtrak software will also decode and display SPRE housekeeping telemetry including temperatures, voltages, and system status. This software is freely available on the Internet for installation on IBM compatible computers.

=

=This technology has many applications in the amateur radio as well as the commercial worlds. Low cost Low Earth Orbit (LEO) satellites could be used to track storms, weather balloons, boats at sea, trucks, etc. Satellites could collect the location data from ground targets and download it to ground control stations. If the SPRE mission is successful, this capability may be incorporated into future amateur spacecraft, thus supporting the amateur's effort for technological improvement.

=

=The operational aspects of SPRE will include amateur radio operators throughout the world. Elementary and High Schools are encouraged to enlist the aid of local amateur radio operators to set up ground stations and participate in the SPRE experiment. SPRE can be used as an educational tool in many classes including math, science, and geography.

=

=SPRE can still be used as an educational tool even if a school is not in session during a fly-over. A simple amateur packet radio station can be configured to listen to the SPRE telemetry and record the data for later study.

=

=Amateurs and schools who participate are encouraged to send the data they collect to the SPRE Project to help to piece together a composite picture of the mission. The final results will be made available to participating schools and the amateur radio community.

=

=SPRE will use a ground control network, SPREnet, consisting of specially equipped amateur radio stations to distribute data via the Internet.

=These control stations will monitor the health and activity of SPRE.

=

=In addition to the amateur radio experiment, the SPRE system will forward to Earth a sampling of real-time telemetry for two of OAST Flyer's experiments: REFLEX and GADACS. Spartan is equipped with on-board recorders to capture data from each of the experiments. Traditionally, an experimenter must wait several weeks to receive the mission data. SPRE provides a low cost, innovative solution giving experimenters the opportunity view a small sample of data during the mission while advancing amateur radio satellite technology.

=

=The sample REFLEX data from the mass spectrometer will be used by the experimenters to provide feedback on how well their experiment is performing. SPRE will be providing GPS location and time information from

=the GADACS experiment. This information will provide some insight on the
=health of the GADACS GPS receivers as well as indicate the current
=location of the Spartan satellite. Using the APRtrak software described
=above, amateur radio stations and schools will be able to observe the
=track of the satellite as it passes overhead.

=
=Data is transmitted on a downlink frequency of 145.55 MHz. This is the
=same frequency used by the MIR space station and the Shuttle Amateur Radio
=EXperiment (SAREX). The data format is completely printable ASCII
=characters and therefore is fully compatible with all amateur packet radio
=equipment in common use today.

=
=All of the hardware and software has been designed and constructed by
=students and volunteers. This low cost project has provided a great
=hands-on opportunity to gain experience in space communications. So far,
=several students have earned college credit for their work on SPRE. It
=has also helped some graduating students secure employment in the
=aerospace industry.

=
=
=
=
=Information Summary
=-----

=Mission: STS-72, Space Shuttle Endeavour (OV-105)
=
=Launch: January 11, 1996 at 09:18 UTC (60 minute launch window)
=Orbit: 28.45 Degrees
=
=SPRE Deployment: 3 days 2 hours mission elapsed time
=SPRE mission: Approximately 46 hours
=
=Operating Mode: FM, AFSK 1200 baud packet radio
=Frequencies: 145.550 MHz Simplex
=
=Landing: January 20, 1996 at 04:54 UTC at KSC
=
=WWW Home Page: <http://w3eax.umd.edu>
=Anon. FTP site: [w3eax.umd.edu /pub/spre](http://w3eax.umd.edu/pub/spre) directory
=
=
=
=Ground Stations:

=
=* Any amateur radio station or school with packet radio capability
=* ARPtrak Software (available on the Internet)
= - Runs on an IBM compatible PC
= - Displays SPRE telemetry
= - Unattended data collection capability
= - Can replay satellite passes
=* Simple packet radio station setup
= - Licensed Amateur Radio Operator
= - Terminal Node Controller (TNC)
= - VHF Radio (amplifier recommended if transmitting to SPRE)
= - VHF Antenna (beam recommended if transmitting to SPRE)
= - PC Compatible Computer
= - APRtrak Software Package4
= - Satellite Tracking Software (Recommended)
=
=
=
=
=To Participate:

=
=Schools wishing to participate should contact the SPRE Project for more
=information and the APRtrak software. Send electronic mail (e-mail) to
=Ken McCaughey at kenneth@w3eax.umd.edu. Or send a self addressed stamped
=envelop and a 3.5 inch high density floppy disk to:

=
=
= Attn: SPRE Project
= Century Computing Inc.
= 8101 Sandy Spring Road
= Laurel, MD 20707
=
=
=
=
=For information on local amateur radio clubs, operators, and volunteer

=instructors please contact Peter Budnik from the Amateur Radio Relay
=League (ARRL). Send mail or e-mail to:

=
=
= Peter Budnik
= ARRL

= 225 Main Street
= Newington, CT 06111
= e-mail: pbudnik@arrl.org
=
=
=
=
=
=
=>-----207663120728896--
=====

99. Re: [APRSSIG:4883] Re: CHANGE 145.79?!

From: Michael Walker <mwalker@gold.interlog.com>
Date: Mon, 4 Dec 1995 14:25:18 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512041451.B20829-0100000@gold.interlog.com>
Rendered body type: text/plain

Hi Aaron

Did anyone supply input from Alberta when we had 6 months of data collection going on. We wanted to know what was in use Canada wide, and I don't remember hearing about Alberta using 145.790. As for Eastern Canada, it growing in leaps and bounds on 144.390.

Finger pointing aside, how many digi's are on 145.790 in Alberta?

regards...mike

Michael Walker
mwalker@interlog.com
VA3MW

On Mon, 4 Dec 1995, aaron elekes wrote:

> .
> >As far as a freq is concerned 145.790 is a co-ordinated freq.
> >In Canada it has been used by other packet modes before
> >APRS came along and to do away with any problems with
> >co-ordination across this Country.
> >When CRRL set up the Canadian Frequencies it was decided
> >to chose a freq for APRS that did not effect any other packet
> >system in use. It was mutually decided to use 144.390, as
> >NO other packet stations were using it and make it an
> >exclusive "NATIONAL" APRS frequency CANADA wide.
> >The "Ontario / WNY Packet Advisory Group" led the way
> >in this decision.
> >Ontario and Western New York are have been using 144.390
> >for the last year for APRS.
> >If you are going to move your 145.790 at all let it be to a
> >co-ordinated frequency, that is NOT being used by anyother
> >packet or FM mode. Might I suggest doing as Canada has
> >done and move down to 144.390 across all of North America.
> >
> >This is my 2 cents worth, and please forgive the VE6's use
> >of foul ****'s
> >
> >Regards, Ron ... 73 de Ron
> > Internet: rkramer@cdx.net (Ron Kramer)
> > Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
> >
> >
> > It wasnt foul! It was sencored! Anyways, whoever set the frequency
> > for Canada is an idiot! We set 145.790 over 2 years ago for Alberta. Then
> > RAC comes along and moves it on us down to 144.390. WHY! I would like to
> > stay where it is compatable with other countries. Also, 145.790 freq is
> > reserved for digital mode in the RAC spectrum. What do you think APRS is?
> > So I am staying!
> >
> > De Aaron Elekes
> > VE6FXR
> > E-mail- ve6fxr@amsat.org
> >
> >

100. Re: [APRSSIG:4842] CHANGE 145.79?!

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Mon, 4 Dec 1995 11:49:42 -0800
To: aprssig@tapr.org
Message-ID: <v01520d06ace88efc2c07@[129.131.31.10]>
Rendered body type: text/plain

A point I haven't seen mentioned yet:

Which is more useful to you? Having amateurs talk to the astronauts or having an APRS network that could be used in emergencies, public events, etc. Seems to me that the amateurs that contact manned space operations pretty much do it for the thrill of the contact. I vote in favor of a useful APRS network.

73, jan
kc6uth

101. 440 aprs?

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 4 Dec 1995 14:08:40 -0600
To: aprssig@tapr.org
Message-ID: <199512042008.OAA03117@OAMPC10.csg.mot.com>
Rendered body type: text/plain

Is anybody doing 440 mhz aprs activity? What baud rate are you using? What activity level do you see?

Paul, WD9ABE

102. Re: [APRSSIG:4882] 15 kHz spacing and APRS

From: quarry@q.continuum.net (Chip)
Date: Mon, 4 Dec 1995 15:03:53 -0500
To: aprssig@tapr.org
Message-ID: <v01530505ace9047c9dfb@[199.0.52.58]>
Rendered body type: text/plain

At 12:15 12/4/95, Jack Anderson wrote:

> about everything is simplex. Simplex packet digipeaters and nodes
> located at good radio sites stand a much better chance of creating
> adjacent channel interference to each other, since now we're talking
> about "base to base" interference instead of "base to mobile". The
> path is now a line-of-sight path with much less attenuation.

I don't know about that ... most of the time I operate packet anymore it is mobile.

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (860-889-6427)

-----+-----
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)
griffge@nu.com | Chip@1:320/301.0 or .1 (fido)
emmet2@aol.com |

my home page: <http://q.continuum.net/~quarry/>
TRAUG home page: <http://q.continuum.net/~quarry/TRAUG.html>

103. Re: Magellan Counter Offer

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 4 Dec 1995 16:08:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951204160520.20048D-100000@greatlakes>
Rendered body type: text/plain

On Mon, 4 Dec 1995, Tim Hogard wrote:

> I talked with Magellan today.
> They offer a 10 channel unit for: us\$199 if 50 are ordered.
> Their antenna is \$59. There is a powersupply board for \$40. They have
> This unit does not provide pseudo-ranges and does not do NMEA but provides

ERGO IT IS USELESS! The Magellans started me on the entire APRS concept when their first boards came out. They lead the field, they soon got the contract for all JAPANESE car makers and have an excellx\ent product, but to make it fit and to meet the Japanses Specs, they dropped NMEA. Stupid move. WWithout NMEA, their GPS is worthless for APRS, unless you want to add a mircorporcessor to convert their format...

104. Re: [APRSSIG:4886] Re: CHANGE 145.79?!

From: elekesa@cadvision.com (aaron elekes)
Date: Mon, 4 Dec 1995 14:17:23 -0700
To: aprssig@tapr.org
Message-ID: <9512042117.AA42044@huey.cadvision.com>
Rendered body type: text/plain

>Hi Aaron
>Did anyone supply input from Alberta when we had 6 months of data
>collection going on. We wanted to know what was in use Canada wide, and
>I don't remember hearing about Alberta using 145.790. As for Eastern
>Canada, it growing in leaps and bounds on 144.390.
>
>Finger pointing aside, how many digi's are on 145.790 in Alberta?
>
>
>regards...mike
>
>-----

>Michael Walker
>mwalker@interlog.com
>VA3MW
>
I don't think anyone took the time to let RAC know what was going
on. APRS then was not a big issue. As of today, only a select few have
delegated their time towards APRS. However, we as the select few do wish to
stay compatable with the US.
De Aaron Elekes
VE6FXR
E-mail- ve6fxr@amsat.org

105. Fwd: [APRSSIG:4842] CHANGE 145.79?!

From: SGranth@aol.com
Date: Mon, 4 Dec 1995 16:37:46 -0500
To: aprssig@tapr.org
Message-ID: <951204163733_44134854@emout04.mail.aol.com>
Rendered body type: text/plain

Forwarded message:
From: SGranth@aol.com
To: dbarrow@omnifest.uwm.edu, coordinator@cs.tamu.edu
CC: aprsig@tapr.org, regional_freq@tapr.org, amsat-bb@amsat.org,
SGranth@aol.com
Date: 95-12-04 16:12:11 EST

Gentlemen,

I understand there is some, and will be more, discussion on this subject.

Furthermore, since this issue relates to packet radio (man, am I going to catch it for this comment?..), we will probably see many 'flaming hot' messages on the subject from those who have strong feelings, and those who primarily utilize text transmission (writing) to express and vent their anger and frustration.

We do have to realize that this is one of those issues relating to a conflict between the ARS and ASS. These terrestrial vs. space questions are going to require some coordination and communication between the interest groups representing these services.

Though healthy commentary on these issues is certainly encouraged, I think this is an area where the (cough.. cough..) ARRL needs to exhibit it's capability to 'troubleshoot' the situation before it becomes a problem. This is where the League's SMC can, and must, become involved; in planning issues such as this.

In the end, we should all endeavor to use reason. The use of wisdom, knowledge, and understanding is the key to the resolution of problems. We all want it now, instantly. However, It won't be quite that easy.

First, let's have the wisdom to recognize the problem. Let's obtain the knowledge to work the problem. And, finally, let's have the understanding to implement correct and proper change to solve the problem.

Let's all (...the SMC too!) use communication to enhance knowledge.

More than just a tool, communication is a process!

73!

Steve Grantham, N5DWU
SERA Mississippi Director

In a message dated 95-12-03 16:55:07 EST, dbarrow@omnifest.uwm.edu (David W. Barrow III) writes:

```
>FORWARDED FROM: /mail/db/dbarrow(#7013) From:bruninga@nadn.navy.mil(Bob
>Bruninga)
>Well, I just finished reading the latest AMSAT journal, and it seems
>clear to me that the 145.80 frequency for future manned spacecraft is
>pretty well established WORLDWIDE.
>
>Maybe we on APRS should move down 5 KHz to 145.785.
>
>This would give us a 15 KHz split between the users down on 145.77 and
>the space guys on 145.80. That should work fine, since 15 KHz splits
>have been shown to work just fine on the 2 meter band with modern rigs.
>
>One further advantage is that most SPACE folks should be encouraged to
>monitor 145.805 since they will first hear the spacecraft with +3 KHz
>doppler anyway. Then they can tune downward if they want to trak the pass.
>
```

(text deleted...)

106. Re: [APRSSIG:4885] Spartan Packet Radio Experiment

From: Wb2ngz@aol.com
Date: Mon, 4 Dec 1995 19:33:44 -0500
To: aprssig@tapr.org
Message-ID: <951204192931_64225570@emout04.mail.aol.com>
Rendered body type: text/plain

Dear Peter:

The Daytona Beach Amateur Radio Association (DBARA) would be interested in participating in SPRE. Please advise me regarding details of participation and where I can get the APRtrak program to use for tracking.

Thank you...

Bob Cline, WB2NGZ

107. APRS EVENT DETAILS

From: KD4EMI@aol.com
Date: Mon, 4 Dec 1995 21:14:57 -0500
To: aprssig@tapr.org
Cc: miaminet@mcimail.com, DMOBLEY@encore.com,
Bruninga@greatlakes.nadn.navy.mil
Message-ID: <951204211445_44496338@mail02.mail.aol.com>
Rendered body type: text/plain

Well, its over. The AIDS awareness day walkathon has concluded and here is what we learned.

#1 A program that runs on a newton or one of those hand held graphics pads would be STUNNING ! Laptops are too big to carry.

Imagine, you could walk around with race organizers, and show them where their people and resources are. Also, could plunk it on the dashboard and use it as a moving map display while driving. The computer in the car works fine, but we cant lug a laptop around while walking around the park with the race bosses. Can anyone do this kind of software?

#2 Having APRS reduced our voice traffic 90% ! Each ham knew where everyone was without resorting to asking.. Just look at the screen!

#3 We needed a TOTALLY portable APRS machine and KC4NMY came through. His GPS/APRS/TNC/HT/Seismograph/Gieger Counter box with Built-in antenna and decoder ring came to the rescue ! We just handed it to one of the vehicle drivers and there he was on the map. James Bond look out!

If we wanted to change the xmit rate or whatever, we just connected to the KPC and changed what we needed.

The guy in the truck didnt have to operate it at all !!

As it turned out, we did need to access the portable unit and we were able to change parameters during mid race !

#3 Everyone shaved! I made these little ID cards and distributed them to everyone. It had call sign, name and Radio operator on it. Looked like a backstage pass. It was secured with a lanyard around the neck. Amateur radio fashion at its' best. Really looked professional (I thought).

#4 Having a mobile home as our base of operations was terrific! We could load it up with our goodies (radios, extra batteries, food/drink) and swing by it and restock. The generator and big batteries didn't hurt either.

Now the BAD STUFF.

Not one of the race organizers asked to see our APRS display. That's why something more portable would be great.

That's it ... that's the only bad thing.

On a personal note...

Seeing those people walking was very touching. IT would rip your heart out. Scenes like:

The 4 year old boy, paralyzed on the right half of his body, strapped to some kind of walker device, dragging his crippled body, smiling and happy as he crossed the finish line with the crowd cheering and his parents lovingly helping him cross the line was one of the most profound experiences of my entire life.

Or the wheelchair guy who took an extra hour (or was it 2 hours extra) to cross the finish line. He nearly toppled over on the speed bumps in the road. But he didn't stop. HAM OPERATORS were there, (when most of the race organizers had already left) at the finish line. Credit to K04HD who had to drive his van .003 miles per hour behind the guy for over an hour)

I would like to publicly thank the following operators for their help. We asked them to arrive a 6am on a Sunday and they were there, I am very proud to be their friends...

Dennis KT4FI

Steve K04HD

Jeff KB2LDT

Bob KA2YZM

Seymour KC4NMY

Carl KA40PZ

After witnessing this event, I became aware of how terrible this disease is, and after seeing the victories that people made, I feel recharged in the fact that there are people out there who make a difference. I was very glad to be a small part of it.
73 Mike KD4EMI@AOL.COM

108. Re: MKMAPKKE.ZIP bug

From: KSwaggart@aol.com

Date: Mon, 4 Dec 1995 22:05:13 -0500

To: aprssig@tapr.org

Message-ID: <951204220511_125080228@mail04.mail.aol.com>

Rendered body type: text/plain

Sorry about the MKMAPKKE bombing. I'm working on a fix, but need to test it some more to make sure I didn't screw something else up! As soon as it is corrected and uploaded to TAPR I'll notify the SIG.

73, Ken, W7KKE
kswaggart@aol.com

109. Re: [APRSSIG:4870] Re: CHANGE 145.79?!

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>

Date: Mon, 04 Dec 1995 21:20:06 -0600

To: aprssig@tapr.org

Message-ID: <9512042120.AA06343@oscar.tbr.state.tn.us>

Rendered body type: text/plain

- > As far as a freq is concerned 145.790 is a co-ordinated freq. In
- > Canada it has been used by other packet modes before APRS came along
- > and to do away with any problems with co-ordination across this
- > Country.
- > When CRRRL set up the Canadian Frequencies it was decided to choose a
- > freq for APRS that did not effect any other packet system in use. It
- > was mutually decided to use 144.390, as NO other packet stations
- > were using it and make it an exclusive "NATIONAL" APRS frequency
- > CANADA wide.
- > The "Ontario / WNY Packet Advisory Group" led the way in this decision.
- > Ontario and Western New York have been using 144.390 for the last
- > year for APRS.
- > If you are going to move your 145.790 at all let it be to a
- > co-ordinated frequency, that is NOT being used by any other packet or
- > FM mode. Might I suggest doing as Canada has done and move down
- > to 144.390 across all of North America.

While I am not in favor of moving, I now understand a little better the ramifications with the space folks. For me, a move to 144.39 would be infinitely more feasible than a move to 145.785. If we are going to move I like this idea best.

73 de KQ4TV

110. Mapfix Bug

From: rwf <rwf@mindspring.com>
Date: Tue, 5 Dec 1995 00:33:02 -0500
To: aprssig@tapr.org
Message-ID: <199512050533.AAA20780@borg.mindspring.com>
Rendered body type: text/plain

Bob-

I have located a possible bug in Mapfix. It shows up in (at least) versions 16 and 17.

I was using the program to make 1 mile Atlanta area maps when I noticed that the lat/long display box was behaving strangely. The problem involves the data on the left side of the box (the side with the degrees, minutes.tenths of minutes)

When cursoring up from 33 degrees thru 34 degrees, the calculation is way off just above 34, 0.0. Just after passing 34 degrees, the display reading varies between 0 and 9 minutes, then goes back to less than 1 minute, then begins incrementing normally.

I tried several other similar places where degrees clicked over and this was the only place I noticed it.

To test this, place your cursor just below 34 degrees, zoom all the way in and move the cursor up. You'll see the problem.

Ralph

111. Tapr problem

From: ke4eer@ro.com (William Nolle)
Date: Tue, 05 Dec 1995 00:52:42
To: aprssig@tapr.org
Message-ID: <199512050759.BAA15326@sh1.ro.com>
Rendered body type: text/plain

Again all day today i have not been able to access anything on Tapr for some reason. No FTP nor even able to access anything to do with Tapr. Anybody have that same problem???

Bill KE4EER

112. Re: [APRSSIG:4850] Re: CHANGE 145.79?!

From: DDOBBINS@aol.com
Date: Tue, 5 Dec 1995 10:02:08 -0500
To: aprssig@tapr.org
Message-ID: <951205100205_45025490@emout06.mail.aol.com>
Rendered body type: text/plain

I shaketh my head laterally, indicating NO.

Don't change from 145.79.

Aloha, now back to the beach. Dave.

113. EUROMIR + SAFEX FREQUENCY CLARIFICATION

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 5 Dec 1995 00:01:40 -0600
To: aprssig@tapr.org
Message-ID: <v02130501ace8dc0de582@[199.1.11.103]>
Rendered body type: text/plain

More Background information.

>Date: 18 Sep 95 10:09:03 EDT
>From: Norbert Notthoff <100114.1050@compuserve.com>

>To: AMSAT-BB <AMSAT-BB@amsat.org>
>Cc: "David Cowdin, WD0HHU" <70524.2272@compuserve.com>
>Subject: EUROMIR + SAFEX FREQUENCY CLARIFICATION
>
>EUROMIR AND SAFEX FREQUENCY CLARIFICATION
>-----
>
>Unfortunately there has been spread some out-of-date information
>about the EUROMIR/SAFEX 2 m frequencies from the USA.
>
>We cancelled the 2 m frequencies published some weeks ago in our
>club magazine cq-DL due to heavy complaints in Europe:
>
>145.850 MHz would cause interference to the uplink of important
>satellites like KITSAT-OSCAR-23 and others. Additionally AMSAT
>groups in Europe do for good reasons not want to have manned
>spacecraft traffic within the 2 m satellite subband. They agree
>to use the band edge, however.
>
>There are heavy complaints about the other frequencies too. HAMS in
>Europe are VERY sensitive to these things, since there had been some
>SAREX activity in FM and Packets modes just in the 144.400-144.500
>MHz segment, which is reserved for CW/SSB use ONLY in IARU Region 1,
>and which is intensively being used for METEORSCATTER activities in
>Europe. Many hams are now aware of possible bandplan violations and
>do complain immediately, when MIR or SHUTTLE activities are on
>frequencies which do not fit the bandplan.
>
>So we decided to use 145.200, 145.550, and 145.800 MHz, which have
>been chosen at the IARU Forum of this year's AMSAT-UK Colloquium.
>
>Please note, that the 2 metre band in Europe is 144.000-146.000 MHz
>ONLY, and that we have very dense population and lots of VHF activity
>in Europe. So it is nearly impossible to find a "clear" frequency in
>the 2 metre band.
>
>We will definitely not change the frequencies again because there are
>problems in one part of the world, as long as we are not shure that
>a new chosen frequency will not cause bad interference in the other
>parts of the world or even to the OSCAR satellites. The situation in
>Europe is particularly complicated and sensitive.
>
>73 de Norbert, DF5DP (DARC Coordintaor Satellites And Space Projects)

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

114. 145.79 again.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 5 Dec 1995 00:07:47 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.951204235412.23910F-100000@greatlakes>
Rendered body type: text/plain

Well, apparently my idea to solve the future problem with SAREX and Space station on 145.80 by moving APRS down 5 Khz has met with overwhelming opposition by everyone. Most vociferously the folks on 145.77 who dont want to have a 15 KHz neighbor on 145.785...

No one, especially the most contemptuous responses offered any other solution other than "IM NOT MOVING"...

Oh well, seemed like a workable compromise to me...

In view of the explosive growth of 145.79 networks, it will be impossible to fix this problem later. Maybe the possibility of moving the SPACE STATION up to 145.805 should be re-addressed...

115. Re: [APRSSIG:4893] Re: Spartan Packet Radio Experiment

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 4 Dec 1995 23:37:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951204233122.23910D-100000@greatlakes>
Rendered body type: text/plain

> The Daytona Beach Amateur Radio Association (DBARA) would be interested in
> participating in SPRE. Please advise me regarding details of participation
> and where I can get the APRtrak program to use for tracking.

APRtrak has been donated to AMSAT and is available on the amsat BBS. I forget the exact path, but it is something like software/tracking/PC...

It is also available on tapr.org in the tapr/SIG/aprssid/upload directory.

116. Cheap digis \$50

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 4 Dec 1995 23:53:45 -0500 (EST)
To: aprssid@tapr.org
Message-ID: <Pine.SUN.3.91.951204234823.23910E-100000@greatlakes>
Rendered body type: text/plain

Dick Smith in Tennessee just made me aware of someone listing 50 or so MAXAR-80 transceivers for \$50 each. These are good quality commercial radios with helical front ends. They are single or dual channel crystal controlled. They tune to 145.79 but he doesn't think they will all reliably go as far down as 145.01,

When I called today, he only had about 10 left. I don't have one and am not getting one, since I already have more commercial junk lying around than I can ever get tuned up. But if anyone is building a digi, these sound great. Call Henry Hamblin at 606 528-8961 somewhere in Tennessee I think. He ships them for about \$6.50 each...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

117. Re: [APRSSIG:4895] Re: MKMAPKKE.ZIP bug

From: n2czf@gate.net
Date: Mon, 4 Dec 1995 23:24:18 -0500
To: aprssid@tapr.org
Message-ID: <199512050424.XAA10027@tequesta.gate.net>
Rendered body type: text/plain

Hey Ken, don't be sorry! I am grateful for all the wonderful programming you, Bob, Keith, Marc and all the others on the sig do. Mistakes happen, it is part of improving software from time to time.

I am just happy that someone out there has the smarts to do the programming for the likes of "appliance operators" like me!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

118. Re: [APRSSIG:4887] Re: CHANGE 145.79?!

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Tue, 5 Dec 1995 08:16:05 -0600 (CST)
To: aprssid@tapr.org
Message-ID: <199512051416.IAA02401@solar.cs.tamu.edu>
Rendered body type: text/plain

Jan A. Barglowski sez:
>
> A point I haven't seen mentioned yet:
>
> Which is more useful to you? Having amateurs talk to the astronauts or
> having an APRS network that could be used in emergencies, public events,
> etc. Seems to me that the amateurs that contact manned space operations
> pretty much do it for the thrill of the contact. I vote in favor of a
> useful APRS network.

Oh. I'm sorry. You could be right. If you had your facts right.

The primary reason for SAREX is not for the HAMS to talk to the astronauts. It's to provide a unique educational and motivational opportunity to school children.

Listen up, guys. There is no reason why Manned Space activities, which predate APRS *AND* Packet, can't co-exist with the rest of ham radio. I can speak for SAREX in saying that they've gone a long way toward coexistence by trying to accommodate a number of complaints about the SAREX frequencies by relocation.

Let me talk technology here for a while. And bureaucracy.

1. the SAREX radio routinely manifested for flight is a Motorola MX-300 series radio. It is EPROM-tuned. For reasons of reliability and quality assurance, SAREX has the programming done by Motorola, in Plantation Florida, shipping

all flight radios and training radios back to the factory for checkout. Upon their return, someone has to test and verify, under written test procedures, that all the radios are really on the frequencies they're supposed to be.

Did I mention Flight Hardware? The 2-week process associated with shipping Flight Hardware is something to behold, too.

Selection of frequencies for use is a subject that must be approved within the NASA community, as well. Since there is not a spare Orbiter with all systems intact at NASA/JSC, most of the determination is based on analysis. If a potential problem is determined, the easiest way to fix it is to tell SAREX "NO." In point of fact, this has happened on several flights, where unpredicted malfunctions occurred. Until some determination of the real problem evolved, SAREX was off.

Selection of frequencies is also an international effort by ARRL and AMSAT. While I hesitate to use the terms "nationwide" and "bandplan" in the same sentence, in some cases, it's appropriate. Space is coordinated by treaty agreement from 145.800-146.000 MHz. Depending on regional bandplans, repeater inputs start at 146.01 or 146.02, in the US. In other portions of the world, the entire amateur allocation for 2 meters is 2MHz or less, frequently ending at 146.00. It's been over 2 years in the making, to get a new set of allocations for manned space operations. Oh, and while you're commenting on how happy Mir is with 145.55 operations, please recall the two reasons THAT was chosen: 1. SAREX had established a 145.55 MHz downlink back in the dim recesses of history, when Owen Garriott, W5LFL, flew on STS-51C, AND, someone had preset the original Mir radio to that frequency, and the Cosmonauts didn't have to change it.

There was serious complaining about Mir's use of SAREX's "channel" when they came up the first time! (Not, I might add, from SAREX) But upon the return of SAREX to operation with STS-35, in 1985, a real firestorm erupted: The DX Cluster community was all up in arms that the "newcomer" operation, SAREX, had stolen their channels! (SAREX uplinks had previously been 144.91-144.99, with a preference for 144.95 to preserve the utility of a .6 MHz split) Over time, the community and SAREX reached a truce: SAREX is only overhead for brief periods, and was not demonstrated to really screw up their operations...

Telling Manned Space operations to move AGAIN is not likely to help much. There is significantly more mass there to get moving than there is with APRS. Personally, while Bob's suggestion has merit for altruism, I do not think there is a hard technical requirement for moving IF we make sure our radios and TNCs are set up properly.

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

119. Baycom tnc in a connector

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Tue, 5 Dec 1995 09:28:20 -0600
To: aprssig@tapr.org
Message-ID: <199512051528.JAA11408@OAMPC10.csg.mot.com>
Rendered body type: text/plain

Does anyone know if it is possible to use a Baycom TNC in a connector with APRS? I think this question was posed a while ago, but I can't seem to find an answer. Even if it could be made to work RX only would be ok.

Paul, WD9ABE

120. Re: [APRSSIG:4825] Re: GPS simultaneous parallel tracking

From: lancer@airways.com (Lance Robinson)
Date: Mon, 4 Dec 1995 21:06:55 -0800
To: aprssig@tapr.org
Message-ID: <199512050506.VAA03504@sonic.net>
Rendered body type: text/plain

As I remember, the EPROM style PIC chip (16C54) is about \$20. The write once type is below \$10. The Intel 87C51 (w/EPROM) costs about \$30. The advantage to the 87C51 is that it has serial hardware. On the PIC chip you have to meticulously program the serial timing. The PIC documentation has some routines to do either input or output, but I don't recall any simultaneous input/output routines as would be needed for a translator device. With both parts, you still need a serial transceiver to produce the correct serial voltage levels.

BTW, I have a PROM programmer that can program both the PIC and Intel devices.

```
>> <I Previously wrote...> <snip...>
>> Your best bet would probably be to build a translator device that
>> translates your GPS's output to the NMEA codes. There are some relatively
>> cheap single board computers ($150) that could be programmed to do the
>> needed translation. If you are a little more industrious, you could put
>> together a simple board with a microcontroller (87C51--has built in EPROM
>> and serial output) and a serial transceiver chip.
>> If you send me the format of your GPS's output, I'd be willing to look
>> at it and give you more feedback. If you e-mail me, don't expect a reply
>> until after Monday--I'll be out of town.
```

"Jim Lynch" <k4gvo@america.net> Wrote:

```
>The little PIC chips would be able to handle that I'd thing. Those
>are rather cheap. Less than $100. Someone with the development
>tools would have to develop it, though.
```

```
-----<><
D.Lance Robinson (lancer@airways.com)
Office: (707)526-6488      ! /=\  /7      /-----
Fax: (707)526-5643        <=====! ----( Airways Technology, Inc. (
Home: (707)823-8227      ! 8          \-----
```

121. Re: [APRSSIG:4888] 440 aprs?

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Tue, 5 Dec 1995 09:24:35 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9512050824.AA05367@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

Paul Moller writes:

```
>
> Is anybody doing 440 mhz aprs activity? What baud rate are you using? What
> activity level do you see?
>
> Paul, WD9ABE
```

We're on 440 here, 1200 baud, going through a couple of existing packet digis which are on a 9600 baud (or 19200 baud) backbone. But that's just for testing (yes, we know that the backbone takes away some APRS capability, but we have no choice at the moment!). We're just getting started here in Germany, and are still pondering what to do about finding a frequency for us. First we've got to get more people on the air with APRS here, so that at least one APRS station can hear at least one other directly!

I got a message from DF2DR once explaining why almost none of the recommended APRS frequencies in the U.S. will work in Europe, so any hope of an international APRS standard frequency list (even on HF) went right out the window. :-(Unless the international APRS community is willing to start all over again...

Is there anyone who does NOT get a headache when working on a freq. coordination problem?

--Shannon, DL6SEU (AKA N7APC)

122. RE: APRS EVENT DETAILS

From: Miami Network <0004818186@mcimail.com>
Date: Tue, 5 Dec 95 05:02 EST
To: KD4EMI <KD4EMI@aol.com>
Cc: aprssig <aprssig@tapr.org>, DMOBLEY <DMOBLEY@encore.com>, Bruninga <Bruninga@greatlakes.nadn.navy.mil>
Message-ID: <53951205100235/0004818186NA3EM@MCIMAIL.COM>
Rendered body type: text/plain
Mike:

Thank you for allowing me to be part of the AIDS Walkathon Event.

We are all very pleased with your forward motion that you have taken and the effort to market this event and gain the involvement of the Amateur Radio Community was commendable.

73, Seymour, KC4NMY

123. Test msg, pls disregard

From: DDOBBINS@aol.com
Date: Tue, 5 Dec 1995 10:40:10 -0500
To: aprssig@tapr.org
Message-ID: <951205104008_45058985@emout05.mail.aol.com>
Rendered body type: text/plain

Well, if you read this anyhow, I logged on and got a NO MAIL que, which is next to impossible, since there's always something incoming from the SIG. Up'ing this file now and waiting to see if the mailbox light comes on. May have been dropped again. Aloha, Dave. (Not going to beach yet).

124. Re: APRS EVENT DETAILS

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 05 Dec 1995 10:50:44 -0500
To: aprssig@tapr.org
Message-ID: <199512051555.KAA17893@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

Mike KD4EMI@AOL.COM wrote:

>Well, its over. The AIDS awareness day walkathon has concluded and here is
>what we learned.
>
>#1 A program that runs on a newton or one of those hand held graphics
>pads would be STUNNING ! Laptops are too big to carry.
>
>Imagine, you could walk around with race organizers, and show them
>where their people and resources are. Also, could plunk it on the
>dashboard and use it as a moving map display while driving. The computer in
>the car works fine, but we cant lug a laptop around while
>>walking around the park with the race bosses. Can anyone do this kind of
>software?
>[...]

The HP 100LX palmtop works fine with APRS, although the aspect ratio of the map is a little squished, and it will fit in you hip pocket.

Bob Kirk
N30ZB

125. HAWAII AERO-MOBILE EVENT

From: DDOBBINS@aol.com
Date: Tue, 5 Dec 1995 00:31:23 -0500
To: aprssig@tapr.org
Message-ID: <951205003033_125233361@mail04.mail.aol.com>
Rendered body type: text/plain

Aloha all. Ted/NH6YK, pilot extraordinaire, and I, Dave/WH6YC, beachgoer regulare, will be aeronautical mobile around Oahu next week one day, Dec 11-15, with APRS onboard. We will uplink occassional position reports to HF. The flight will be coincident with a band opening on 30M, which usually starts about 1700 west coast time. We will uplink thru our local WIDE digi, and encourage acknowledgement by short one-liner. We intend to videotape the event for playback at an upcoming ARC meeting. FYI, the WIDE digi on Oahu will move soon to atop a mountainridge above Waikiki and Waimanalo, at 2700 feet. We're curbing output on the 100watt radio so as to not interfere w/the satellite subband. We'll call our presence on 145.79 as "established" vice coordinated. I don't know if we do that coord stuff over here. Honolulu Marathon is this Sunday, December 10th. We have 3 APRS trackers for the Lead Male, Lead Female, and primary Doctor transport vehicle, and will be using APRSDR to track the Lead Wheelchair, course record, and pack. Wish us luck. Must be snowing on the mainland, cuz I feel like heading for the beach. Aloha, Dave.

126. Re: [APRSSIG:4898] Tapr problem

From: JAgrelo@aol.com
Date: Tue, 5 Dec 1995 11:54:51 -0500
To: aprssig@tapr.org
Message-ID: <951205115450_64679424@emout04.mail.aol.com>
Rendered body type: text/plain

In a message dated 95-12-05 11:17:20 EST, you write:

>Again all day today i have not been able to access anything on Tapr for some
>reason. No FTP nor even able to access anything to do with Tapr. Anybody
>have that same problem??
>
>Bill KE4EER

Yes me too, no access.

Our web page grows bigger, now all you have to do is type an associated word from the web crawler like agrelo, dfjr, rdf, and bingo your at Agrelo Engineering.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

127. RE: [APRSSIG:4898] Tapr problem

From: "Richard L. Holbert" <rhobert@manny.rcinet.com>
Date: Tue, 5 Dec 1995 12:43:13
To: aprssig@tapr.org
Message-ID: <199512051743.MAA07785@manny.rcinet.com>
Rendered body type: text/plain

It's working now!

On Tue, 5 Dec 1995 09:08:25 -0600 (CST),
aprssig@tapr.org wrote...
>Again all day today i have not been able to access anything on Tapr for
>some
>reason. No FTP nor even able to access anything to do with Tapr. Anybody
>have that same problem??
>
>Bill KE4EER
>
>
>
>
>

Rick Holbert

Ham: KB8DNR
Work: rhobert@arinc.com
Home: rhobert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

128. Re: [APRSSIG:4906] Baycom tnc in a connector

From: rwf <rwf@mindspring.com>
Date: Tue, 5 Dec 1995 13:01:49 -0500
To: aprssig@tapr.org
Message-ID: <199512051801.NAA11431@borg.mindspring.com>
Rendered body type: text/plain

A Baycom is only a *MODEM* not a TNC. The TNC-like functions are handled in the software running on the PC connected to the MODEM. APRS requires a TNC. Unless Bob wanted to add MODEM drivers to his code, which I feel is unlikely, the Baycom is not going to work.

TNCs are small enough now, and reasonably priced e enough (See the Pico-Packet from Paccomm) that I seriously wonder why anyone would mess with a Baycom type device now anyway. But I have one if you know anyone who wants to buy it.

Ralph
N4NEQ

At 09:35 AM 12/5/95 -0600, you wrote:
>Does anyone know if it is possible to use a Baycom TNC in a connector with
>APRS? I think this question was posed a while ago, but I can't seem to find

>an answer. Even if it could be made to work RX only would be ok.
>
>Paul, WD9ABE
>
>

129. BETAb.zip for PK-900 and 2232

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 5 Dec 1995 13:03:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951205125851.3064B-100000@greatlakes>
Rendered body type: text/plain

I made another stab at band switching the AEA dual ports. It is betab.exe and is zipped up as betab.zip. Again, it would NOT upload to my internet server with Kermit. So I posted it on 410 280-2503 BBS.

It also should solve the garbled call problem seen in Germany...

betab.exe will identify itself as 74.d, but it is NOT (yet).

If you have a PK-900 or DSP-2232 please see if this version does properly band switch. You MUST start betab.exe from scratch so that it can ask you about your TNC...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

130. New *HIGH* APRS DIGI for NC /TN / GA

From: rwf <rwf@mindspring.com>
Date: Tue, 5 Dec 1995 13:17:35 -0500
To: aprssig@tapr.org
Message-ID: <199512051817.NAA15546@borg.mindspring.com>
Rendered body type: text/plain

For those of you keeping track, or planning travel to the area, we have placed a new APRS digipeater on a 4800 ft hill in extreme SW North Carolina.

The digi is located at Andrews NC and has already shown that it can connect directly to Columbus, GA, Birmingham, AL, Atlanta, GA, Huntsville, AL and all of the other Digis in TN except for Nashville. The other packet digi on the same site connects easily to southern VA as well, so if APRS gets active there, we may have a path. Yes, Bill KE4EER can work it direct from 153 miles away in Hazel Green, AL. Haven't yet tested the range to the beach in Hawaii, yet though :).

It's an easy hop over to the DIGIS in the Knoxville area that already serve middle/east TN so well, but don't do much for NC due to mountains like this one.

It is currently a WIDE-RELAY and I will list the beacon text below so Bob and Keith can add it to their lists.

Hardware is a GE MVP running 25 watts into a db Products pass cavity and 9913 feedline into a Hustler G-7.
Commercial equipment and pass cavities make for GOOD ham radio neighbors!

N4NEQ-3 !3404.03N/08427.29W#PHG5870/WIDE-RELAY in SW North Carolina 4800'

Thanks to KE4CTS KD4DKW and WD4JEM for their assistance on the installation, and W6PNC for range testing from Atlanta.

Ralph
N4NEQ

131. Re: [APRSSIG:4900] EUROMIR + SAFEX FREQUENCY CLARIFICATION

From: "Demos Doulou" <ddoulou@tesla.netline.net>
Date: Tue, 5 Dec 1995 13:21:16 +0005
To: aprssig@tapr.org
Message-ID: <199512051820.NAA26639@tesla.netline.net>
Rendered body type: text/plain

> Date: Tue, 5 Dec 1995 09:09:15 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: kc5ejk@onramp.net (Robert Winingham)

> To: aprssig@tapr.org
 > Subject: [APRSSIG:4900] EUROMIR + SAFEX FREQUENCY CLARIFICATION

> More Background information.
 > -----
 > >Date: 18 Sep 95 10:09:03 EDT
 > >From: Norbert Notthoff <100114.1050@compuserve.com>
 > >To: AMSAT-BB <AMSAT-BB@amsat.org>
 > >Cc: "David Cowdin, WD0HHU" <70524.2272@compuserve.com>
 > >Subject: EUROMIR + SAFEX FREQUENCY CLARIFICATION
 > >
 > >EUROMIR AND SAFEX FREQUENCY CLARIFICATION
 > >-----
 > >
 > >
 > >Unfortunately there has been spread some out-of-date information
 > >about the EUROMIR/SAFEX 2 m frequencies from the USA.
 > >
 > >We cancelled the 2 m frequencies published some weeks ago in our
 > >club magazine cq-DL due to heavy complaints in Europe:
 > >
 > >145.850 MHz would cause interference to the uplink of important
 > >satellites like KITSAT-OSCAR-23 and others. Additionally AMSAT
 > >groups in Europe do for good reasons not want to have manned
 > >spacecraft traffic within the 2 m satellite subband. They agree
 > >to use the band edge, however.
 > >
 > >There are heavy complaints about the other frequencies too. HAMS in
 > >Europe are VERY sensitive to these things, since there had been some
 > >SAREX activity in FM and Packets modes just in the 144.400-144.500
 > >MHz segment, which is reserved for CW/SSB use ONLY in IARU Region 1,
 > >and which is intensively being used for METEORSCATTER activities in
 > >Europe. Many hams are now aware of possible bandplan violations and
 > >do complain immediately, when MIR or SHUTTLE activities are on
 > >frequencies which do not fit the bandplan.
 > >
 > >So we decided to use 145.200, 145.550, and 145.800 MHz, which have
 > >been chosen at the IARU Forum of this year's AMSAT-UK Colloquium.
 > >
 > >Please note, that the 2 metre band in Europe is 144.000-146.000 MHz
 > >ONLY, and that we have very dense population and lots of VHF activity
 > >in Europe. So it is nearly impossible to find a "clear" frequency in
 > >the 2 metre band.
 > >
 > >We will definitely not change the frequencies again because there are
 > >problems in one part of the world, as long as we are not shure that
 > >a new chosen frequency will not cause bad interference in the other
 > >parts of the world or even to the OSCAR satellites. The situation in
 > >Europe is particularly complicated and sensitive.
 > >
 > >73 de Norbert, DF5DP (DARC Coordintaor Satellites And Space Projects)
 > >
 > Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---
 > >
 > >
 > >

Why don't they use 440 instead of 2 meters. Seems to me that uhf
 would be better suited for space communications than 2 meters.

73 Demos KR4US

132. Re: [APRSSIG:4898] Tapr problem

From: n8mwz@alpha.wcoil.com (Bob Hartman)
 Date: Tue, 5 Dec 1995 13:20:27 -0500
 To: aprssig@tapr.org
 Message-ID: <199512051820.NAA16973@alpha.wcoil.com>
 Rendered body type: text/plain

>Again all day today i have not been able to access anything on Tapr for some
 >reason. No FTP nor even able to access anything to do with Tapr. Anybody
 >have that same problem???
 >
 >Bill KE4EER

I was able to get in after two attempts at 1750 UTC. The transfer seemed
 like it was
 going to run a little slow, but then picked up to its usual speed and
 completed.

Maybe there was extremely heavy usage today..

133. 144.390????

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Tue, 05 Dec 1995 12:58:07 EST
To: <aprssig@tapr.org>
Message-ID: <05DEC95.14006290.0048.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

I have a question about 144.390 im not saying move or dont move im just asking for more info b4 i "cast my vote"

1. What is it used for in the US now?
2. If a move was made could we go to 9600 at a later date?
3. Would we have the power limmitions that i hear so many of you talking about?

(digis with 5 watts dont work in the athens/atlanta area and mobiles runing less than 10 watts dont work very well at all)

4. I know that the cost of making modifications to radios would be expensive but what are the long range benefits and would it be beter to move now vs. moving when we have 3 times the users and digis?
5. Is there a possible national cordinations on this (144.39) frequency?ie having every body on the same frequency would be a much beter situation

thanks Lynn N4YCI at Univ of Georgia.....HI KIP!

134. Re: CHANGE 145.79?!

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 5 Dec 1995 13:54:14 -0500
To: <aprssig@tapr.org>
Message-ID: <199512051854.NAA25369@brickell.bridge.net>
Rendered body type: text/plain

I think everyone is very much over-reacting to the present situation.

1. 145.800 is one of three freqs listed.
2. Even if it were the only one, there would be QRM to 145.79 for a few minutes at a time, several times a day. Not a 24 hr a day problem for us by any means.
3. The QRM from APRS to MIR will be far greater, since APRS consists of automated stations which will not be able to be shut down during a pass. I doubt they will continue using this freq over the US once they hear what it sounds like up there.

My opinion, for the little it is worth, it to leave things were they are. If we move, next week someone may try to put something on 145.78!

135. Re: [APRSSIG:4897] Mapfix Bug

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 5 Dec 1995 15:47:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951205154429.6521B-100000@greatlakes>
Rendered body type: text/plain

On Tue, 5 Dec 1995, rwf wrote:

> I have located a possible bug in Mapfix. It shows up in (at least) versions
> 16 and 17.
> When cursoring up from 33 degrees thru 34 degrees, the calculation is way
> off just above 34, 0.0.

Is always been there. MAPFIX doesnt handle well the leading zero of the decimal portion of the minutes. So 39 27.015 will look lilke 39 27.15.

Sorry, but at these fine levels of detail, I guess it is going to be of concern.

BUT THE NUMBERS ARE CORRECT, only the DISPLAY is off. So in the vicinity of an even DEGREE, just move the cursor slowly and you can figure out how many leading zeros may be missing after the decimal point... TNX...

136. Re: [APRSSIG:4897] Mapfix Bug

From: Barbara Fehner <fehner@cts.com>
Date: Tue, 5 Dec 95 13:33 PST
To: aprssig@tapr.org
Message-ID: <m0tN4zY-000V3mC@mailhub.cts.com>

Rendered body type: text/plain

I have also noticed this bug. It doesn't seem to affect Mapfix but it does make it hard to locate a point to enter into Mkmap. I have also noticed that Mapfix eats points when a map is loaded into it. This causes the stairstep problem.

Barbara KK6IB
E-Mail: fehner@cts.com

At 09:03 AM 12/5/95 -0600, you wrote:

>Bob-
>
>I have located a possible bug in Mapfix. It shows up in (at least) versions
>16 and 17.
>
>I was using the program to make 1 mile Atlanta area maps when I noticed that
>the lat/long display box was behaving strangely.
>The problem involves the data on the left side of the box (the side with the
>degrees, minutes.tenths of minutes)
>
>When cursoring up from 33 degrees thru 34 degrees, the calculation is way
>off just above 34, 0.0.
>Just after passing 34 degrees, the display reading varies between 0 and 9
>minutes, then goes back to less than 1 minute, then begins incrementing
>normally.
>
>I tried several other similar places where degrees clicked over and this was
>the only place I noticed it.
>
>To test this, place your cursor just below 34 degrees, zoom all the way in
>and move the cursor up. You'll see the problem.
>
>
>Ralph
>
>
>
>

137. Re: Tiny-2 help need

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Tue, 5 Dec 95 13:38:32 -0800
To: aprssig@tapr.org
Message-ID: <3E81C43001B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

Bruce-

I have been using a Procomm Tiny-2 for a year now and I can offer these pointers:

When setting up the TNC for APRS transmit using a GPS receiver w/ NMEA-0183 outputs, you need to at least set up 5 commands. MYCALL should have your callsign (w/ optional SSID if desired). GPSTEXT should contain the NMEA data sentence such as \$GPRMC or whatever. LPATH can be left with GPS (default) or some other destination callsign. LOCATION EVERY N should set your periodic transmission rate every N*10 seconds. Lastly, GPS should be set ON, in order to activate the TNC as an APRS tracker. It should be noted that these commands should be sent to the Tiny-2 in UPPER CASE only-- it will ignore lower case inputs.

If you suspect your problem is communicating with the GPS receiver, verify what baud rate the GPS unit is sending at. The NMEA standard is 4800 baud, but newer units may transmit at 9600 baud. You can change the jumpers inside the Tiny-2 to accommodate the correct baud rate if necessary. Also, be aware that both the TNC and GPS receiver are considered as DCE devices. While you may be able to read the output of the GPS unit on a DTE device (i.e. computer or terminal), you may need to use a null modem adapter to connect a DCE device to a DCE device. What I do is install a mini DPDT slide switch inside a DB-9 connector shell of my connector cable to switch the RD and TD lines as required.

If you suspect your problem to be on the receiving end using the Tiny-2 as a standard TNC, I have found the TNC front end very sensitive to overloading or underloading from the transceiver. While the TNC's DCE light will come on for each packet burst, there may be no data being transmitted on the RD line going to your computer. I find that installing an in-line RS-232 mini-tester will aid in setting up the receiver volume level to an optimum point. I hope these pointers help.....

73's de Mike KA6SPT

138. Re: Face Red re: New *HIGH* APRS DIGI for NC /TN / GA

From: rwf <rwf@mindspring.com>
Date: Tue, 5 Dec 1995 16:41:09 -0500
To: aprssig@tapr.org
Message-ID: <199512052141.QAA08742@borg.mindspring.com>
Rendered body type: text/plain

At 01:00 PM 12/5/95 -0600, I wrote:

>

>

>Thanks to KE4CTS KD4DKW and WD4JEM for their assistance on the installation,
>and W6PNC for range testing from Atlanta.

And I forgot to thank ol' Bill Nolle, KE4EER for the loan of his 145.79 GE
crystals for the digi. I needed
some in a hurry and he came thru in the clutch with a set.

Ralph

139. Re: [APRSSIG:4921] Re: CHANGE 145.79?!

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 5 Dec 1995 23:32:45 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951205232955.387A-100000@pinegov>
Rendered body type: text/plain

On Tue, 5 Dec 1995, Steve Dimse wrote:

> I think everyone is very much over-reacting to the present situation.

>

> 1. 145.800 is one of three freqs listed.

>

> 2. Even if it were the only one, there would be QRM to 145.79 for a few
> minutes at a time, several times a day. Not a 24 hr a day problem for us
> by any means.

>

> 3. The QRM from APRS to MIR will be far greater, since APRS consists of
> automated stations which will not be able to be shut down during a pass.
> I doubt they will continue using this freq over the US once they hear
> what it sounds like up there.

>

> My opinion, for the little it is worth, it to leave things were they are.
> If we move, next week someone may try to put something on 145.78!

>

I absolutely, positively, agree on this one.....SAREX goes up for a few
days every few months...and passes overhead 3 or 4 times a day for no
more than 10 minutes...and we are talking the downlink freq not the
uplink freq...the SAREX astronauts won't hear it at all....

P.S. What was wrong with 145.55 anyway....only a problem during joint
missions....

Just my two cents worth

de Kevin KD4UYR

140. Re: [APRSSIG:4906] Baycom tnc in a connector

From: dwetzel@acs.uswest.com
Date: Tue, 5 Dec 1995 11:44:40 -0600
To: aprssig@tapr.org
Message-ID: <0c4d16a0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

No, the Baycom is only a modem - no packet driver or API to
Bob/Keith's work.

Doug
KC7CO
dwetzel@acs.uswest.com

Subject: [APRSSIG:4906] Baycom tnc in a connector
Author: aprssig@tapr.org at Internet-Mail
Date: 12/5/95 9:35 AM

Does anyone know if it is possible to use a Baycom TNC in a connector with APRS? I think this question was posed a while ago, but I can't seem to find an answer. Even if it could be made to work RX only would be ok.

Paul, WD9ABE

141. Re: [APRSSIG:4920] 144.390????

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 5 Dec 1995 23:45:37 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951205234353.387B-100000@pinegov>
Rendered body type: text/plain

On Tue, 5 Dec 1995, HOLCOMB, GREGORY FRA wrote:

> I have a question about 144.390 im not saying move or dont move im just
> asking for more info b4 i "cast my vote"
> 1. What is it used for in the US now?
> 2. If a move was made could we go to 9600 at a later date?
> 3. Would we have the power limmitions that i hear so many of you talking
> about?
> (digis with 5 watts dont work in the athens/atlanta area and mobiles
> runing less than 10 watts dont work very well at all)
> 4. I know that the cost of making modifications to radios would be
> expensive but what are the long range benefits and would it be beter to
> move now vs. moving when we have 3 times the users and digis?
> 5. Is there a possible national cordinations on this (144.39)
> frequency?ie having every body on the same frequency would be a much
> beter situation
>
> thanks Lynn N4YCI at Univ of Georgia.....HI KIP!
>
>

According to the ARRL Operating Manual...the ARRL bandplan places 144.390 smack in the middle of the Oscar subband in the US...in Region 1 it would be 10 KHz away from the SSB meteor scatter freq....so there is the answer...why as why?

de KD4UYR

142. Re: [APRSSIG:4905] Re: CHANGE 145.79?!

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 5 Dec 1995 19:10:50 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512051938.A14830-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Pragmatically lady(ies) and gentlemen, if the AMSAT people find problems with operating on 145.80, then THEY will fix it. Bob's suggestion is golden.

My recommendation is to sit tight and wait and see. Don't change.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

143. Re: [APRSSIG:4923] Re: Mapfix Bug

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 5 Dec 1995 21:13:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951205210622.9042C-100000@greatlakes>
Rendered body type: text/plain

On Tue, 5 Dec 1995, Barbara Fehner wrote:

> I have also noticed this bug. It doesn't seem to affect Mapfix but it does
> make it hard to locate a point to enter into Mkmap. I have also noticed that
> Mapfix eats points when a map is loaded into it. This causes the staircase
> problem.

APR REPLY: There is no mechanism for APRS to eat points EXCEPT for the alt-SCRUNCH command. If you see a grainy resolution, then you have selected a VERY wrong map scale (PPD) value. Im not sure how the PPD is selected in MKMAPHK, but when you view ANY map with MAPFIX, the OPTIMUM map scale is shown as a yellow BOX. All or most of you points should be inside this box.

If you have a vey BIG yellow box, and a tiny map, then the PPD value is

way to big and you have lost resolution. If the yellow box is too small, and most of your map is outside of the yellow box, then you have TOO MUCH resolution for that size map, and your MAP numbers will be TOO big. This will lead to APRS crashes when you ZOOM in too far.

The yellow box marks the 0,0 origin in the upper left corner, and the size of the box represents map values between 0 and 1024 vertically and between 0 and 2048 (somewhat less actually) in the X axis. If you values remain in that range, then 1) your map will NOT crash in APRS and you can use the MAPFIX COMPRESS function to reduce the size of your map files.

I see a lot of manually made maps with GROSSLY wrong PPD selections. In MKMAPHK and MAKEMAP1, I think the program selects it for you...

144. Re: [APRSSIG:4926] Re: CHANGE 145.79?!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 5 Dec 1995 20:33:06 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512060233.UAA15513@solar.cs.tamu.edu>
Rendered body type: text/plain

Kevin Heyboer sez:

>

> P.S. What was wrong with 145.55 anyway....only a problem during joint
> missions....

Well, last I checked, First Element Launch for Space Station (R)Alpha is due *NEXT* year, and Permanent Manned Capability in 18 months. So, they'll have 2 space stations up then. Therein, some of the basis for the prior planning.

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

145. Face Red AGAIN re: New *HIGH* APRS DIGI for NC /TN / GA

From: rwf <rwf@mindspring.com>
Date: Tue, 5 Dec 1995 21:51:10 -0500
To: aprssig@tapr.org
Message-ID: <199512060251.VAA21972@borg.mindspring.com>
Rendered body type: text/plain

Today is not my day!

Dan Reilly advised me that my coordinates were wrong for our new digi. I accidentally gave the info for the N4NEQ-2 digi here in Atlanta. The correct info for the one in NC is:

N4NEQ-3 !3404.03N/08427.29W#PHG5870/WIDE-RELAY in SW North Carolina 4800'

Ralph

146. Updated MKMAPKKE.zip at tapr

From: KSwaggart@aol.com
Date: Tue, 5 Dec 1995 22:32:36 -0500
To: aprssig@tapr.org
Message-ID: <951205223229_45857143@mail04.mail.aol.com>
Rendered body type: text/plain

For you APRS mapmakers, I've uploaded a corrected version of MKMAPKKE to tapr/SIG/aprssig/uploads as MKMAPKKE.ZIP. Hopefully this corrects the bug where the + & - did not work correctly. I cranked out a couple of maps with MKMAPKKE and MKMAPHK1 and they now appear to work about the same as far as picking up the correct roads. Read MKMAPKKE.TXT when you unzip the package for details.

I've got Barbara's (KK6IB) and Ralph's requests for tweaks in the "to do" list after all of you find the next set of bugs! Also, I'm trying to figure out how to shed some of the contour lines or points and still keep a reasonable representation of the elevation data.

73, Ken, W7KKE
kswaggart@aol.com

147. Any demand for rail history APRS maps?

From: KSwaggart@aol.com
Date: Tue, 5 Dec 1995 22:32:41 -0500
To: aprssig@tapr.org
Message-ID: <951205223231_45857178@mail06.mail.aol.com>
Rendered body type: text/plain

Are there any railroad history buffs out there? While trying to chase down the last set of bugs in MKMAPKKE I noticed there are several map feature categories under "railroads" that might be interesting; "abandoned", "dismantled", and under the road category, "old railroad grade".

If there is any interest, I could add these to the menu for MKMAPKKE. In Oregon, the hunters often use the old railroad grades for hiking access into the mountains. Not necessarily an APRS application, but this historical map data might be of interest for specialized applications.

73, Ken, W7KKE
kswaggart@aol.com

148. APRS TNC needed

From: mtanner@telerama.lm.com (Mike Tanner)
Date: Tue, 05 Dec 1995 22:32:59 -0500
To: aprssig@tapr.org
Message-ID: <199512060340.WAA21753@ivory.lm.com>
Rendered body type: text/plain

A couple of us want to put up a digi in Pittsburgh. We have most of the stuff we need, except a TNC that will work for APRS. If you have a used KPC-3 or PacCom tnc you want to sell cheap (cost effectively) please contact me. Also, just wondering how much activity there is in the burgh.

Please contact direct so as not to use up bandwidth.
Thanks 73's
Mike
wb5nlj@amsat.org
mtanner@telerama.lm.com

149. New *HIGH* APRS DIGI for NC /TN / GA

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Tue, 05 Dec 1995 22:07:14 -0600
To: aprssig@tapr.org
Message-ID: <9512052207.AA14789@oscar.tbr.state.tn.us>
Rendered body type: text/plain

Ralph, N4NEQ wrote,

> For those of you keeping track, or planning travel to the area, we
> have placed a new APRS digipeater on a 4800 ft hill in extreme SW
> North Carolina.
>
>
> The digi is located at Andrews NC and has already shown that it
> can connect directly to Columbus, GA, Birmingham, AL, Atlanta,
> GA, Huntsville, AL and all of the other Digis in TN except for
> Nashville.

I hope to have this problem rectified this weekend. New Nashville digi going up just east of Nashville.

73 de KQ4TV

150. Re: [APRSSIG:4934] Any demand for rail history APRS maps?

From: rwf <rwf@mindspring.com>
Date: Tue, 5 Dec 1995 23:37:58 -0500
To: aprssig@tapr.org
Message-ID: <199512060437.XAA17441@borg.mindspring.com>
Rendered body type: text/plain

I AM! I AM!

At 09:36 PM 12/5/95 -0600, you wrote:

>Are there any railroad history buffs out there? While trying to chase down
>the last set of bugs in MKMAPKKE I noticed there are several map feature
>categories under "railroads" that might be interesting; "abandoned",

>"dismantled", and under the road category, "old railroad grade".
>
>If there is any interest, I could add these to the menu for MKMAPKKE. In
>Oregon, the hunters often use the old railroad grades for hiking access into
>the mountains. Not necessarily an APRS application, but this historical map
>data might be of interest for specialized applications.
>
>73, Ken, W7KKE
>kswaggart@aol.com
>
>

151. Re: [APRSSIG:4814] Re: GPS simultaneous parallel tracking

From: Terry Taylor <a010717t@bcfreenet.seflin.lib.fl.us>
Date: Tue, 5 Dec 1995 20:03:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9512051933.A2477-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

As one who flies the larger birds, here's my 2 pennies on the discussion about GPS instrument approaches.

To my knowledge, the GPS aviation instrument approach is still published as just a non-precision approach. That means there is only lateral navigational capability, with no vertical capability at all. The pilot makes descents to published lower altitudes (to clear obstacles) as the aircraft approaches the airport. The system would need to be accurate enough to meet the TERPS (standard for defining clearance from known obstacles) criteria for a non-precision approach, of which the VOR, NDB, BC Localizer, TACAN, all meet these requirements.

There are GPS systems now being sold for use in private aircraft. The GPS instrument approach is a reality, as evidenced by renaming a VOR approach to GPS and VOR. Reference: VOR and GPS Rwy 22, Bradley Int'l Airport, Windsor Locks, CT. More and more, with the latest Jeppesen revisions to airports everywhere, GPS is being included as a navigational aid for making a non-precision approach to an airport.

The technology is there, and accurate enough for this type of instrument approach to an airport. The weather minimums are high enough, with adequate clearance from surrounding objects for quite a distance, that lateral error from the system could be tolerated to some degree, probably, as much from any other non-precision approach nav-aid.

To my knowledge, no commercial airline is using GPS for point to point navigation, nor instrument approaches. This is probably more due to cost, than technical capability. Someday, I expect the GPS will replace the VOR and TACAN navigation system.

Terry Taylor, WB5JFM
a010717t@bcfreenet.seflin.lib.fl.us

152. HELP with pico w/2nd serial port and internal GPS

From: Scott Miller <scottm@sierra.net>
Date: Tue, 05 Dec 1995 23:18:16 -0800
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199512060719.AA01713@diamond.sierra.net>
Rendered body type: text/plain

Hi everybody, I'm new to aprs and newer to internet. My problem is when I go mobile I don't see myself on the map. I see everybody else, and they see me, and I see myself being digi'd. I would be very grateful for any suggestions. Thank you all 73 Scott

153. Re: [APRSSIG:4897] Mapfix Bug

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Tue, 5 Dec 1995 20:40:12 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.951205203455.30658D-100000@draco.bison.mb.ca>
Rendered body type: text/plain

On Tue, 5 Dec 1995, rwf wrote:

> Bob-
>
> I have located a possible bug in Mapfix. It shows up in (at least) versions
> 16 and 17.
>

Rendered body type: text/plain

At 09:32 AM 12/5/95 -0600, you wrote:
>Well, apparently my idea to solve the future problem with SAREX and
>Space station on 145.80 by moving APRS down 5 Khz has met with
>overwhelming opposition by everyone. Most vociferously the folks on
>145.77 who dont want to have a 15 KHz neighbor on 145.785...
>
>No one, especially the most contemptuous responses offered any
>other solution other than "IM NOT MOVING"...
>
>Oh well, seemed like a workable compromise to me...
>
>In view of the explosive growth of 145.79 networks, it will be impossible
>to fix this problem later. Maybe the possibility of moving the SPACE
>STATION up to 145.805 should be re-addressed...
>
>
>
Well Bob here is a new thought...with the space vehicles passing for such short periods of time, with only a few effective passes over a given area in a 24hr period and given the short transmit cycle of most APRS stations why not include in your regular APRS a feature you included in the APRTrak program. That is, have everyone upload the current KEPS and have APRS track the space vehicles. When ever the target 145.80 station's effective area enters the area of the tracking APRS, have APRS inhibit all transmits and digi's during that short pass. Make the inhibit process include an ID and comment that this APRS station will cease transmit operation during the current satellite pass, maybe even change the stations symbol to a skull and crossbones during the pass and have any receiving APRS station not tracking the satellite inhibit for a set period of time if they decode the sysbol. Once the pass is clear your station's effective area, APRS turns back on the transmit function and all is normal untill the next pass that covers your area. I realize this will affect only those stations actually running the APRS software, but at least in my area that includes 99% of all APRS stations. I have an unattended wx node/digi, but with no one else xmit'n it will only xmit every 6 min or so and I can lengthen that. With a little creative thinking I bet some of the APRS/Packet experts can come up with a plan that would allow one APRS' inhibit (proposed) function to inhibit a networks worth of digi if they fall into the effective area of the Satellite pass. I don't think that coexistence is out of the picture if we apply a little technology and creative thinking, at least they didn't pick 145.79 as their freq. I remember when I was trying to contact the Shuttle via phone and was running APRS full time at the same station the two seldom conflicted timing wise. 73...Keep up the good work...FredQ.

157. Re: [APRSSIG:4942] Re: EUROMIR + SAFEX FREQUENCY CLARIFICATION

From: "Demos Doulou" <ddoulou@tesla.netline.net>
Date: Wed, 6 Dec 1995 08:28:48 +0005
To: aprssig@tapr.org
Message-ID: <199512061328.IAA27288@tesla.netline.net>
Rendered body type: text/plain

>d From: n8mwz@alpha.wcoil.com (Bob Hartman)
> To: aprssig@tapr.org
> Subject: [APRSSIG:4942] Re: EUROMIR + SAFEX FREQUENCY CLARIFICATION

> >Why don't they use 440 instead of 2 meters. Seems to me that uhf
> >would be better suited for space communications than 2 meters.
> >
> >73 Demos KR4US
> >
> Why don't *WE* do more on 440 instead of expecting everybody else to move???
> >
> >
> >

Good point, and we all need to be thinking of putting new services on UHF and above. It is kind of dumb to be trying to put more and more digital modes on 2 meters were there is very little room left for anything.

We have run out of good repeater pairs here in Pinellas, and repeaters are showing up were they should not be, like there is a repeater on 145.820 here in Florida, which should make the satellite people very unhappy.

But 2 meters is not effected by the environment as much as UHF and above making it better for mobile ground communications, or for

tracking mobiles, where UHF and the microwave bands seem to be better for space comms.

But if necessary I will move as long as the new frequency does not interfere with any other users and it is more than 15 khz from any other users.

73 Demos KR4US

See Ya

Demos

158. Re: [APRSSIG:4939] HELP with pico w/2nd serial port and internal GPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Dec 1995 09:05:34 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951206090259.2895A-100000@greatlakes>
Rendered body type: text/plain

On Wed, 6 Dec 1995, Scott Miller wrote:

> Hi everybody, I'm new to aprs and newer to internet. My problem is when I go
> mobile I don't see myself on the map. I see everybody else, and they see
> me, and I see myself being digi'd. I would be very grateful for any suggestions

SUGGESTION: Wait. hi hi. PacComm and I are working on it. I didn't even know they were shipping the PICO with the dual port yet...
A new version of APRS (74d) will recognize the PICO and instead of toggling the HSP switch, it will INTERROGATE the GPS for its posit data....

159. Mail Bumps

From: Greg Jones <wd5ivd@tapr.org>
Date: Wed, 6 Dec 1995 08:33:48 -0600 (CST)
To: aprssig@tapr.org (BBS SIG mailing)
Message-ID: <199512061433.IAA05037@sys1.tapr.org>
Rendered body type: text/plain

Hi everyone. Lee and myself have been checking on the reason for people getting dropped from time to time from the list. Seems like it might be related to types of error messages some systems send back when mail does bounce.

We have disabled the postpone counter for the time being until we can figure out the error messages in question.

Hope to have something figured out here soon.

Cheers - Greg

160. QST patch antenna

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 6 Dec 1995 08:47:06 -0600
To: aprssig@tapr.org
Message-ID: <199512061447.IAA22444@OAMPC10.csg.mot.com>
Rendered body type: text/plain

I am building the patch antenna as found in a recent issue of QST. I have been looking for an appropriate radome, ie: plastic box. An Rubbermaid food container mounted upside down seemed a possibility, but by the time you get one big enough, the cosmetics become too extreme.

Has anyone found an available and cosmetically appropriate box?

Paul, WD9ABE

Maybe closer to Great Lakes NTC than anybody.

161. Re: [APRSSIG:4937] Re: Any demand for rail history APRS maps

From: dwetzel@acs.uswest.com
Date: Wed, 6 Dec 1995 08:04:45 -0600
To: aprssig@tapr.org
Message-ID: <0c5a74e0@acmospgw1.mnet.uswest.com>
Rendered body type: text/plain

Any options you want to add can only make a great tool better! Thanks for your work, Ken!!!

Doug
KC7CO

Subject: [APRSSIG:4937] Re: Any demand for rail history APRS maps?
From: aprssig@tapr.org at Internet-Mail
Date: 12/5/95 22:48

I AM! I AM!

At 09:36 PM 12/5/95 -0600, you wrote:
>Are there any railroad history buffs out there? While trying to chase down
>the last set of bugs in MKMAPKKE I noticed there are several map feature
>catagories under "railroads" that might be interesting; "abandoned",
>"dismantled", and under the road catagory, "old railroad grade".
>
>If there is any interest, I could add these to the menu for MKMAPKKE. In
>Oregon, the hunters often use the old railroad grades for hiking access into
>the mountains. Not necessarily an APRS application, but this historical map
>data might be of interest for specialized applications.
>
>73, Ken, W7KKE
>kswaggart@aol.com
>
>

162. [APRSSIG:4928] Re: 144.390????

From: "Young, Gregory" <GYoung@ubmede.buffalo.edu>
Date: Wed, 06 Dec 95 10:08:00 PST
To: aprssig@tapr.org
Message-ID: <30C5DC39@ubmed.buffalo.edu>
Rendered body type: text/plain

144.390 is in the middle of the "new Oscar subband", which will be used for Phase 3d. once that is launched. Our regional bandplanning group did check into the freqs antipated for phase 3d, and 144.390 did NOT conflict.

OWNYPAG (The Ontario Western NY Packet Advisory Group) adopted the proposed "Canadian" bandplan, for our region, as it is the best to meet the needs of the 90's, copmared to the existing ARRL plan that is listed in our repeater guides.. Also, as it serves all of Canada, and therefore makes for uniformity. We had a rep. from the ARRL national Vhf/Uhf group, as well as his RAC counterpart, so the plan was not made in a vacuum! Months of thought and negotiation went into it.

The plan needed revision, it was not forthcoming from national, so we tackled it. We even made room for existing AM groups on 2 meters!! (grandfathered in, as well as FM simplex in this subband, again based on the planned up/downlinks proposed).

I need hardly point out that the freqs arbitrarily picked for shuttle communication, used at the time when the ONLY freqs available for packet, 144.91 to 145.09Mhz created some problems (and still do). Fortunately there are noe other packet subbands.

It's time for ALL to sit down and try to coordinate things a bit! The growth of digital has far exceeded the demand for repeaters, manyfold. Look at the spectrum allotted for those devices.. take a listen to the activity on those, or should I say lack of activity..

73, Greg, KE2VW
Chairman, OWNYPAG (Ontario Western NY Packet Advisory Group)
Chairman, WNYSORC (Western NY Southern Ontario Repeater Council)

163. Re: [APRSSIG:4943] Re: 145.79 again.

From: dwetzel@acs.uswest.com
Date: Wed, 6 Dec 1995 08:31:28 -0600
To: aprssig@tapr.org
Message-ID: <0c5ad9e0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Adding orbital calculation code to APRS would certainly "fatten it up"! Rather than program limitations in the software, we might consider voluntary modifications to our operating habits when we have close celestial neighbors on .80.

We should all have our beacons and digi beacons set to the maximum practical interval - more than 30 minutes, at least. That significantly cuts the possibility that digi'ing of beacons will overlap a spacecraft orbit. If we

all used our satellite tracking software to keep track of those periods and minimized keyboard and tracker activity when a manned mission is using .80, we might find that peaceful coexistence is possible without any modifications.

With the amount of orbital modification that occurs with the normal shuttle flight, updated keps should probably be done every day. Most of the on-line services carry keps and keep them updated, especially when a shuttle mission is aloft. They are also available from archive.afit.af.mil in the /pub/space directory for those with Internet access.

If we hope to get wide support for APRS equipped manned missions, a cooperative posture will sure go a long way toward winning friends among the payload decision makers!!

Doug
KC7CO
dwetzel@acs.uswest.com

>
Well Bob here is a new thought...with the space vehicles passing for such short periods of time, with only a few effective passes over a given area in a 24hr period and given the short transmit cycle of most APRS stations why not include in your regular APRS a feature you included in the APRTrak program. That is, have everyone upload the current KEPS and have APRS track the space vehicles. When ever the target 145.80 station's effective area enters the area of the tracking APRS, have APRS inhibit all transmits and digi's during that short pass.

...FredQ.

164. 145.80 vs 145.79 SOLVED!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Dec 1995 10:26:43 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.951206091034.2895D-100000@greatlakes>
Rendered body type: text/plain

On Wed, 6 Dec 1995, Fred Quarles suggested adding Spacecraft tracking to APRS (since it is already in APRtrak) and have APRS go to a MINIMIZE mode during a pass. This idea is the basis for a PERMANENT SOLUTION!

I can put a MINIMIZE function in all APRS software that is capable of being commanded to MINIMIZE non-essential APRS packets during a pass as follows:

1) One station in each APRS area will be designated as a "MINIMIZE" command station. It will have a special version of APRtrak that has the ability to transmit a MINIMIZE command on 145.79.

2) On receipt of a MINIMIZE command, all APRS stations will hold off non essential packets for about 7 minutes. Since all routine APRS beacons are transmitted at a 15 or 20 minute rate anyway, this will have an insignificant effect on ROUTINE operations.

3) When a station receives the MINIMIZE command, the SCREEN will show that MINIMIZE has been effected. ANY APRS operator can decide to OVERRIDE the MINIMIZE if he is doing something special that needs to continue to operate during those 7 minutes.

4) ALL OFFICIAL SAREX and other planned events will be given access to the special version of APRtrak that can generate the MINIMIZE command.

5) THE ULTIMATE solution is for Space Station to carry APRtrak. Even during VOICE operations, at the end of each VOICE transmission, a single 0.2 second packet burst would be transmitted that contains the standard APRS GPS POSIT! Not only will this allow EVERYONE to see where the SPACE STATION is, but it will also trigger the MINIMIZE function in those area wide MINIMIZE command stations. In effect, the SPACE user REQUESTS a MINIMIZED frequency as it moves! (and only when it needs it)

CONCLUSION: Everyone is happy, everyone stays put, the 145.77 guys are not impacted, the APRS users have control over their stations, but we have used technology to solve an un-resolvable frequency coordination problem! I will work with Keith to finalize the details....

Remember, it wont take many COMMAND stations. One station in Maryland could execute MINIMIZE via the existing network and affect APRS stations

out 250 miles via the network.

AND adding the Packet burst (with GPS posit in it) is not a burden to the SAREX or SPACE STATION, but an actual ADVANTAGE! It can serve as an alerting beacon that the SPACE STATION is in range and shows the schools where the STATION is...

165. Re: [APRSSIG:4940] Re: Mapfix Bug

From: rwf <rwf@mindspring.com>
Date: Wed, 6 Dec 1995 11:20:30 -0500
To: aprssig@tapr.org
Message-ID: <199512061620.LAA24621@borg.mindspring.com>
Rendered body type: text/plain

Sounds good. Now that Bob told me what the "work-around" is (to pretend that the displayed figure has a 0 ahead of it and that the number is less than 1), I can deal with it. But it'd sure be nice if it displayed correctly. Go for it
Ralph

At 01:28 AM 12/6/95 -0600, you wrote:

```
>>
>This small problem is due to the whay Bob displays the minutes and seconds
>in the box. I have made some small code modifications that probably would
>fix this. For Bob's info, this involves the PRINT USING statement in the
>code.
>
>I'm trying to get my hands on Quick Basic so that I can create a
>compiled version of Mapfix. Right now, using ver1.1 of QB, I have to
>remove the USGS and Digitizer code so that I don't run out of memory!
>
>Michael
>--
>Michael Markmann VE4MJM          |
>ve4mjm@draco.bison.mb.ca (Internet) | ERROR! REALITY.SYS Corrupted!
>VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25) | Reboot UNIVERSE.EXE!
>Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
>
>
>
```

166. Re: Baycom tnc in a connector

From: Andrew Zimmerman <andrewz@leba.net>
Date: Wed, 6 Dec 1995 12:05:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.90.951206120301.14739B-100000@fig.leba.net>
Rendered body type: text/plain

What about using the BPQ switch with APRS? You can use the switch software with a Baycom modem with a special driver. I have the switch working but could not get APRS working with BPQ. Has anyone done that?

73 de Andrew, AA3AK

andrewz@leba.net CompuServe 73307,2755 Amateur Radio AA3AK

On Tue, 5 Dec 1995, rwf wrote:

```
> A Baycom is only a *MODEM* not a TNC. The TNC-like functions are handled
> in the software running on the PC connected to the MODEM.
> APRS requires a TNC.
> Unless Bob wanted to add MODEM drivers to his code, which I feel is
> unlikely, the Baycom is not going to work.
>
> TNCs are small enough now, and reasonably priced e enough (See the
> Pico-Packet from Paccomm) that I seriously wonder why anyone would mess with
> a Baycom type device now anyway. But I have one if you know anyone who
> wants to buy it.
>
>
> Ralph
> N4NEQ
>
```

>
>
> At 09:35 AM 12/5/95 -0600, you wrote:
> >Does anyone know if it is possible to use a Baycom TNC in a connector with
> >APRS? I think this question was posed a while ago, but I can't seem to find
> >an answer. Even if it could be made to work RX only would be ok.
> >
> >Paul, WD9ABE
> >
> >
>
>

167. Best band?

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 6 Dec 1995 11:11:55 -0600
To: aprssig@tapr.org
Message-ID: <199512061711.LAA25116@OAMPC10.csg.mot.com>
Rendered body type: text/plain

>But 2 meters is not effected by the environment as much as UHF and
>above making it better for mobile ground communications, or for
>tracking mobiles, where UHF and the microwave bands seem to be better
>for space comms.

I beg to differ....2 m is highly effected by the environment, as is evident when there is a band opening all *#\$@! breaks loose. It is this very issue that is either a problem if you are a user on a digital network, or a boom if you are a DX chaser.

2m has lower path loss, by about 6 dB or so, than 70 cm and is thus better for mobile where signals tend to be weak. Although one can achieve more antenna gain at UHF, the problems with fading on NON-error tolerant digital signals (like our ax.25 packet protocol) can be a serious problem at UHF in a mobile environment.

I would recommend that APRS stay on 2m for mobile and related uses. (I will stay out of the 145.790 freq. discussion). But, is there a need for a backbone type link between major metropolitan areas running 9k6 baud on UHF. I say yes! Its only a matter of time until the single 1200 baud channel is congested. (Gee sounds just like 2m packet was like 10 years ago, before the addition of other channels.) Is there a plan to incorporate multiple tnc's and new path names into APRS to handle the desire to show up in multiple cities without going to hf? In Chicago I would like to see the WX in Milwaukee, and St. Louis, and Greenbay and etc, but just listen to 30 m today, it's getting busy! Just a thought.

Paul, WD9ABE
Maybe closer to Great Lakes NTC than anybody.

168. Re: [APRSSIG:4951] 145.80 vs 145.79 SOLVED!

From: scout@cent.com (neil lauritsen)
Date: Wed, 6 Dec 1995 12:13:45 -0600
To: aprssig@tapr.org
Message-ID: <199512061813.MAA18584@ns.cent.com>
Rendered body type: text/plain

Well Done!! I have been following this thread with concerned interest and I knew that given the time, a workable solution would be forthcoming. Thanks Fred, Keith, and THANKS Bob.

>On Wed, 6 Dec 1995, Fred Quarles suggested adding Spacecraft tracking
>to APRS (since it is already in APRtrak) and have APRS go to a MINIMIZE
>mode during a pass. This idea is the basis for a PERMANENT SOLUTION!

Neil - KA3DBK
EC Pinellas Co. ARES

169. Re: [APRSSIG:4951] 145.80 vs 145.79 SOLVED!

From: dwetzel@acs.uswest.com
Date: Wed, 6 Dec 1995 11:06:34 -0600
To: aprssig@tapr.org
Message-ID: <0c5d1fb0@acmospw1.mnet.uswest.com>

Rendered body type: text/plain

Bravo, Bob and Keith!

djw
KC7CO

Subject: [APRSSIG:4951] 145.80 vs 145.79 SOLVED!
From: aprssig@tapr.org at Internet-Mail
Date: 12/6/95 10:17

On Wed, 6 Dec 1995, Fred Quarles suggested adding Spacecraft tracking to APRS (since it is already in APRtrak) and have APRS go to a MINIMIZE mode during a pass. This idea is the basis for a PERMANENT SOLUTION!

I can put a MINIMIZE function in all APRS software

170. TAPR web site

From: JAgrelo@aol.com
Date: Wed, 6 Dec 1995 12:39:20 -0500
To: aprssig@tapr.org
Cc: JAgrelo@aol.com
Message-ID: <951206123919_65504844@mail02.mail.aol.com>
Rendered body type: text/plain

I havn't been able to retrieve the TAPR web site for 2 days now, is anyone else having this problem?

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

171. APRS: Newbie Question

From: lancer@airways.com (Lance Robinson)
Date: Wed, 6 Dec 1995 11:14:54 -0800
To: aprssig@tapr.org
Message-ID: <199512061914.LAA10262@sonic.net>
Rendered body type: text/plain

Hello All,

I have some real basic questions about APRS (also about Packet Radio). If anyone can tackle a few for me, I'd appreciate it. Here we go...

Q: Where are FAQ files for APRS and Packet Radio?

Q: How is APRS pronounced?

Q: Can someone who is not an Amateur radio operator have an APRS setup (roaming transmitter and base)?

Q: (I picked up the buzzword TNC) How dumb/intelligent are these things--what features and costs are there?

Q: What kind of collision detection is used before/during packet transmitting is used (if any) ?

Q: What is the smallest and most portable transmitter configuration (Locator/TNC/Radio) ? How long will this configuration last on a set of batteries?

Q: Are there any portable radio's with a built in TNC?

Q: What kind of base software is available? Do they run on DOS, Windows or ...??

Q: Roughly, how many roaming devices are potentially in use? How many bases

are there?

Q: What are the current limitations of APRS? i.e., maximum units being tracked, maximum distance from base (or repeaters), error rate, ...?

Q: What is APRS currently being used for? What about the future?

Q: When will every vehicle, child, and dog be tracked via APRS ? :-)

Thanks for any replies, --Lance

```
-----<><
D.Lance Robinson (lancer@airways.com)
Office: (707)526-6488      ! /=\  /7      /-----
      Fax: (707)526-5643      <=====! ----( Airways Technology, Inc. (
      Home: (707)823-8227      ! 8          \-----
```

172. GPS TNC

From: Wb2ngz@aol.com
Date: Wed, 6 Dec 1995 12:51:50 -0500
To: aprssig@tapr.org
Message-ID: <951206125149_46369371@emout04.mail.aol.com>
Rendered body type: text/plain

A friend of mine here in Daytona Beach, KD4KDR, and I have been experimenting with APRS for about 3 months now. There are now 7 of us who play APRS on 145.790 every night now in Daytona Beach. KD4KDR would like to set up a GPS and TNC in his mobile. I'm looking for suggestions from the experts as to the best, cheapest, smallest GPS TNC to use for this purpose. I am also wondering, at this initial stage, what controls the GPS/TNC position report timing. Is it programmable with a TNC parameter or is it uncontrollable.

P.S.: I am still waiting for WB4APR to include an ICBM symbol in APRS that explodes on impact so that our Daytona Beach "war games" will be more realistic...He He.

73...WB2NGZ@AOL.com

173. Dallas Marathon

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Wed, 6 Dec 1995 14:25:22 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <951206142522.2060746f@exame2.dseg.ti.com>
Rendered body type: text/plain

The Dallas White Rock Marathon will be held on this coming Sunday, December 10. While there is a lot of APRS interest in Dallas, we are really just getting started with it. We had hoped to use at least one APRS tracker for the marathon. However, some more equipment has become available and we'll now be running several trackers. The problem now is that we don't have good detailed maps of Dallas, and none of us has any experience making them yet.

If there is anyone out there who has access to the 2,000,000:1 data for Dallas and has the time and inclination to make a more detailed map of the Dallas area that we could use for the marathon it would be a BIG addition to our APRS experiment this weekend. I think that a 10 mile map, centered roughly at the intersection of ROSS AVE. and GREENVILLE AVE in Dallas would be just right.

I apologize for the late notice. Anything that anyone can come up with will be more than we have available now. Thanks in advance.

73 Claude Head K5DTN
13316 Spring Grove
Dallas, TX 75240
214.386.8966 home phone
214.995.5040 office phone
chead@exame2.dseg.ti.com

174. APRS Train Trip

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Wed, 06 Dec 1995 12:41:20 -0800
To: aprssig@tapr.org
Message-ID: <9512062041.AA05680@gvgadg.gvg.tek.com>
Rendered body type: text/plain

Randy's Great American APRS Train Trip

or

My Wife Thinks There Is Too Much Technology On This Trip.

Two weeks from today, Wed Dec 20 to Sat Dec 23, my wife and I will be on the AMTRAK train from Sacramento Ca. to Rochester NY for Christmas.

The trip basically is from:

Sacramento, Reno, Salt Lake City, Denver, Lincoln, Omaha, Chicago, Toledo, Cleveland, Buffalo, and Rochester.

I'll have along my goodie bag of toys including; PC Laptop, FT-51R & FT470 HTs, Pico Packet TNC, GPS-45 w/active ant, Scanner for rail monitoring and batteries. I'll also have along some reading material, Walkman with AM/FM radio, camcorder, clean underwear, Swiss Army knife, and a bottle of Scotch. We will have a Deluxe sleeper compartment to Chicago, then in a much smaller sleeper the last night going into Rochester. The Deluxe sleeper room has power available.

I plan on having my APRS system up and running along the trip. I need information about areas along the trip that have APRS activity and the local APRS frequency. Otherwise, I'll transmit on 145.79 MHz. I'll try and keep it running as much as I can. I don't know if I'll have room to keep the station running at night, but be on the lookout for it. The TNC has a PBBS, so leave me a message!

Please pass along your local APRS frequency. I'll be using the RELAY,WIDE,WIDE path, unless different for local areas. Point your beams at the train track!!

I'll try to also monitor the 2M FM railfan frequency of 146.49 MHz along the way.

I have found the lats and longs for each stop (Internet is great!) and will enter all that data into the GPS-45 as waypoints.

Below is the rail timetable, so that you can be on the lookout for me. I don't know how close AMTRAK keeps to schedule (if I get there on the right day that is probably doing good!). Also below is the lats and longs for the stops. If you have a better posit for the train station, please pass it along.

If anyone has any suggestions that will improve my operation, please pass them along.

Busy packing, planning, and testing,

Randy
WA2AGE
randyh@gvgadg.gvg.tek.com

| 5 | Train Number | 6 |
|------------------|-----------------------|------------------|
| SuTuWeFr | Days of Operation | MoWeFrSa |
| Read Down | to/from Oakland | Read Up |
| Miles | Station | Symbol |
| SuTuWeFr departs | | arrives WeFrSuMo |
| 3:00p | 0 dp Chicago, IL. | ar 4:30p |
| 3:35p | 24 Naperville, IL. | 3:15p |
| 4:45p | 104 Princeton, IL. | 2:00p |
| 5:48p | 162 Galesburg, IL. | 1:07p |
| 6:36p | 205 Burlington, IA. | 12:05p |
| 7:09p | 233 Mt. Pleasant, IA. | 11:30a |
| 7:54p | 280 Ottumwa, IA. | 10:45a |
| 9:10p | 360 Osceola, IA. | 9:24a |
| 9:41p | 393 Creston, IA. | 8:49a |
| 11:37p | 501 ar OMAHA, NE. | dp 7:00a |
| 11:59p | dp OMAHA, NE. | ar 6:35a |
| MoWeThSa | | |
| 1:07a | 555 ar LINCOLN, NE. | dp 5:30a |
| 1:17a | dp LINCOLN, NE. | ar 5:20a |
| 2:50a | 652 Hastings, NE. | 3:47a |
| 3:39a | 706 Holdrege, NE. | 2:55a |
| 4:58a | 784 McCook, NE. (CT) | 1:48a |

| | | | |
|----------|------|------------------------------------|----------|
| 6:23a | 960 | Ft. Morgan, CO. (MT) | WeFrSuMo |
| 8:25a | 1037 | ar DENVER, CO. | 10:15p |
| 9:10a | | dp DENVER, CO. (bus Colo. Springs) | ar 9:00p |
| 11:05a | 1100 | Winter Park, Fraser CO. | 5:05p |
| 11:35a | 1113 | Granby, CO. | 4:40p |
| 2:50p | 1222 | Glenwood Springs, CO. | 1:30p |
| 4:55p | 1311 | Grand Junction, CO. | 11:45a |
| 6:10p | 1390 | Thompson, UT. (flag stop) | 9:45a |
| 8:00p | 1488 | Helper, UT. | 8:10a |
| 10:05p | 1564 | Provo, UT. | 6:05a |
| 11:36p | 1608 | ar SALT LAKE CITY, UT.(MT) | dp 5:15a |
| TuThFrSu | | | |
| 12:35a | | dp | ar 4:08a |
| TuThSaSu | | | |
| 3:48a | 1871 | Elko, NV. (PT) | 10:18p |
| 5:55a | 2009 | Winnemucca, NV. | 8:13p |
| 7:30a | 2062 | Lovelock, NV. | 7:05p |
| 9:15a | 2180 | ar SPARKS, NV. | dp 5:35p |
| 9:30a | | dp | ar 5:20p |
| 9:41a | 2184 | Reno, NV. | 5:00p |
| 10:34a | 2216 | Truckee, CA.(Lake Tahoe) | 4:03p |
| 12:42p | 2284 | Colfax, CA. | 1:52p |
| 1:48p | 2319 | Roseville, CA. | 1:02p |
| 2:40p | 2337 | Sacramento, CA. | 12:35p |

| | | |
|--|--------------------------------|--------------|
| 48 | Train Number | 49 |
| Daily | Station | Daily |
| (read down) | | (read up) |
| Amtrak Thruway Bus Connection--Madison WI/Chicago IL | | |
| Schedule below | | |
| 8:00p | 0 dp Chicago, IL | CT ar 12:28p |
| 8:29p | 16 Hammond-Whiting, IN | CT 11:34p |
| 10:35p | 84 South Bend, IN | EST 11:31a |
| 11:02p | 101 Elkhart, IN | EST 11:06a |
| 11:50p | 156 Waterloo, IN | EST 10:20a |
| 12:12a | 181 Bryan, OH | ET 9:55a |
| 1:16a | 234 ar Toledo, OH | dp 9:04a |
| 1:34a | dp Toledo, OH | ar 8:39a |
| 2:24a | 281 Sandusky, OH | 7:43a |
| 2:58a | 316 Elyria, OH (Lorain) | 7:09a |
| 3:36a | 341 ar Cleveland, OH | 6:36a |
| 3:46a | dp Cleveland, OH | 6:26a |
| 5:14a | 436 Erie, PA | 4:53a |
| 6:47a | 528 ar Buffalo, NY (Depew Sta) | dp 3:21a |
| 7:17a | dp Buffalo, NY (Depew Sta) | ar 2:51a |
| 8:15a | 589 Rochester, NY | 1:52a |

| | | | |
|------------------|----|------------|-------------|
| SACRAMENTO | CA | 38 35 5 N | 121 29 23 W |
| ROSEVILLE | CA | 38 44 52 N | 121 17 6 W |
| COLFAX | CA | 39 5 59 N | 120 57 10 W |
| TRUCKEE | CA | | |
| RENO | NV | 39 31 22 N | 119 48 25 W |
| SPARKS | NV | 39 32 16 N | 119 45 7 W |
| LOVELOCK | NV | 40 10 48 N | 118 28 22 W |
| WINNEMUCCA | NV | 40 58 22 N | 117 43 55 W |
| ELKO | NV | 40 49 48 N | 115 45 36 W |
| SALT LAKE | UT | 40 32 31 N | 111 53 49 W |
| PROVO | UT | 40 13 58 N | 111 39 25 W |
| HELPER | UT | 39 41 16 N | 110 51 10 W |
| THOMPSON | UT | 38 58 26 N | 109 43 4 W |
| GRAND JUNCTION | CO | 39 4 4 N | 108 33 0 W |
| GLENWOOD SPRINGS | CO | 39 32 34 N | 107 19 19 W |
| GRANBY | CO | 40 4 58 N | 105 56 24 W |
| WINTER PARK | CO | 40 4 30 N | 106 2 27 W |
| DENVER | CO | 39 44 24 N | 104 59 16 W |
| FORT MORGAN | CO | 40 15 10 N | 103 48 0 W |
| MCCOOK | NE | 40 12 18 N | 100 37 37 W |
| HOLDREGE | NE | 40 26 23 N | 99 22 19 W |
| HASTINGS | NE | 40 35 24 N | 98 23 6 W |
| LINCOLN | NE | 40 49 22 N | 96 41 6 W |
| OMAHA | NE | 41 16 58 N | 96 0 29 W |
| CRESTON | IA | 41 3 28 N | 94 21 43 W |
| OSCEOLA | IA | 41 2 5 N | 93 46 2 W |
| OTTUMWA | IA | 41 1 12 N | 92 24 37 W |
| MT PLEASANT | IA | 40 57 28 N | 91 33 25 W |
| BURLINGTON | IA | 40 48 36 N | 91 13 58 W |
| GALESBURG | IL | 40 56 52 N | 90 22 1 W |

| | | | |
|------------|----|------------|------------|
| PRINCETON | IL | 41 22 30 N | 89 28 6 W |
| NAPERVILLE | IL | 41 46 4 N | 88 7 38 W |
| CHICAGO | IL | 41 52 58 N | 87 37 30 W |
| HAMMOND | IL | 39 47 41 N | 88 35 31 W |
| SOUTH BEND | IN | 41 40 29 N | 86 15 7 W |
| ELKHART | IA | 41 47 31 N | 93 31 23 W |
| BRYAN | OH | 41 28 22 N | 84 33 7 W |
| TOLEDO | OH | 41 35 27 N | 83 31 42 W |
| SANDUSKY | OH | 41 26 52 N | 82 42 26 W |
| ELYRIA | OH | 41 21 54 N | 82 6 36 W |
| CLEVELAND | OH | 41 29 49 N | 81 41 59 W |
| ERIE | PA | 42 6 46 N | 80 4 23 W |
| BUFFALO | NY | 42 53 13 N | 78 52 30 W |
| ROCHESTER | NY | 43 9 28 N | 77 36 29 W |

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|                                     |
|               My opinions are my own.               |
|                                     |
|               My computer is multimedia deprived.    |
|                                     |
| Randy Hall WA2AGE   randyh@gvgadg.gvg.tek.com   Grass Valley Group |
|                                     |
|-----

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175. APRS Information Needed (Answers)

From: Bob Bruninga <bruninga@nadn.navy.mil>
 Date: Wed, 6 Dec 1995 16:11:28 -0500 (EST)
 To: 73303.3537@compuserve.com
 Cc: INTERNET:@greatlakes.nadn.navy.mil, COORDINATOR@CS.TAMU.EDU;, aprssig@tapr.org
 Message-ID: <Pine.SUN.3.91.951206153851.13638F-100000@greatlakes>
 Rendered body type: text/plain

FOLLOWING REPLYs ARE CAPATIALIZED FOR RECOGNITION.

```

> Chris Petersen, INTERNET:102261.1225@compuserve.com ASKED:

> I'd like some information regarding APRS to help me better understand the
> 145.79 issue better.

> How is APRS used?
ITS A CONNECTIONLESS DSITRIBUTED PACKET SYSTEM WHICH USES UI PACKETS
WITHOUT ACKS SO THAT EVERYONE SEES EVERYONE. THE PRIMARY FUNCTION IS THE
MAP DISPLAY WHICH SHOWS THE POSITION OF ALL STATIONS MOBILE AND FIXED,
AND ALSO ANY NUMBER OF SYMBOLS OR OBJECTS REPRESENTING ANYTHING FROM
RUNNERS, AMBULANCES, FIRETRUCKS, TORNADOS, RAIN, BOATS, SATELLITES...

> How much data is sent in a packet?
ONE LINE ONLY.  CONTAINS DATE,TIME,POSITION,AND STATUS

> Who is sending the packets?
EVERYONE WHO HAS INFO TO SEND

> Base, mobile?
BOTH, MOSTLY BASE, NOW, BUT MOBILES ARE GROWING

> What percentage of channel availability is expected to be used?
THE OPTIMUM LOADING IS EXPECTED TO BE SOMEWHAT LESS THAN CSMA 36%
* NOTE THAT NO SINGLE USER HOGS THE CHANNEL FOR ANY LENGTH
* THE MAXIMUM PACKET RATE FROM THE MOST BUSY ACTIVE STATION IS
ABOUT ONE PACKET EVERY 15 SECONDS, BUT THIS PERIOD *DOUBLES*
AFTER EVERY PACEKT, SINCE OLD NEWS IS LESS VALUABLE
SO IT WOULD NEED TO BE A BUSY SET OF FINGERS THAT COULD LOAD
THE CHANNEL MORE THAN ABOUT 10%

> Is this channel to be used for DGPS services?  If so, how many DGPS
servers do you need in a given coverage area?
YES/NO.  WE TRIED IT, IT WORKS, BUT YOU NEED TO SEND DGPS PACEKTS EVERY
30 SECONDS OR SO TO BE OF ANY VALUE, AND THIS TAKES UP 30% OF THE CHANNEL
CAPACITY!  BEST SOLUTION FOR DGPS IS TO USE A DIFFERENT CHANNEL
TRANSMITTING DGPS DATA ALMOST CONSTANTLY.  NO NEED FOR THIS ON 2 METERS!
NO NEED FOR DGPS IN APRS EITHER.  *WE DONT NEED THAT ACCURACY* FOR TYPICAL
PUBLIC SERVICE EVENTS.

> Why can't APRS share existing packet frequencies?
ONLY ONE REASON.  THE MASSES THINK *UI* MEANS *BEACON* WHICH IS A
FORBIDDEN WORD ON ALMOST *ALL* PACKET NETWORKS...  BUT AN APRS UI FRAME

```

CONVEYS NEW AND CHANGING INFORMATION AND ELIMINATES ACKS... EVERY PERMANENT PACKET SITE, BBS, NODE, WHATEVER, SHOULD SEND AN APRS POSIT/ID AT LEAST ONCE AN HOUR SO THAT EVERYONE CAN SEE THE NETWORK TOPOLOGY JUST BY MONITORING A FREQUENCY. MONITOR SUCH A NETWORK FOR AN HOUR AND YOU WILL BE AMAZED AT ALL THE DEVICES AND SERVICES ARE ON THAT FREQUENCY. APRS ID/POSIT BEACONS ARE AN *IDEAL* FREQUENCY COORDINATORS TOOL

> Does APRS need the exclusive use of a frequency and why?
*YES. THE ESTABLISHED APRS NET IS FOR TRACKING MOBILES. MOBILES TRAVEL. MOBILES CANT POSSIBLY KEEP UP WITH ALL THE PATHS AND FREQUENCIES AND LINKS OF EXSTING NETWORKS. ALSO THE GPS/TNC/RADIO TRACKING DEVICES ARE SINGLE FUNCTION BOXES. SINGLE FREQUENCY XTAL CONTROL IS THE ONLY COST EFFECTIVE MECHANISM FOR OUTFITTING MOBILES.
* ALTHOUGH APRS SHARES A CHANNEL WELL AS A SOURCE OF DATA, IT DOES NOT LIKE TO SEE THE CHANNEL HOGGED FOR CONNECTED DATA TRANSFERS THAT TIE UP THE CHANNEL FOR LONG DURATION. ANY LONG DURATION USE LIKE THAT WOULD KILL LOTS OF UI FRAMES AND DATA WOULD BE LOST...

> Why does APRS need a nation-wide frequency?
OOPS, SAME AS ABOVE.. SO MOBILES OR EMERGENCY RESPONSE TEAMS CAN MOVE FROM AREA TO AREA TRANSPARENTLY. WE CAN TRAK AN AUTO FROM MAINE TO NORTH CAROLINA (ALMOST) AND FROM GA TO MS. THE AUTO NEVER NEEDS TO STOP, TO CHANGE FREQS, OR TO LOOK UP REPEATER CALLSIGNS, HE JUST DRIVES...

> Pointers to sources of information on APRS, (Web sites, FTP sites, etc.)
> would be appreciated.

INCLUDED WITH ALL COPIES OF APRS IS A README DIRECTORY. LOOK IN THERE FOR THE FOLLOWING FILES:
APRS.DOC
OPS.TXT
UHF-FREQ.TXT
DIGIS.TXT
PROTOCOL.TXT

HOPE THIS HELPS...

176. Re: [APRSSIG:4960] Dallas Marathon

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Dec 1995 16:23:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951206161851.13638H-100000@greatlakes>
Rendered body type: text/plain

REGARDING the marathon in Dallas. The existing map is all you are going to get from the 2,000,000 CD ROM. (more water and boundaries are possible) but no more roads. Your best bet is to send one of your trackers ourd driving with a GPS rate of once every 10 seconds, and either save a track history in his laptop, or pick him up off the air, and save the track history.

Then bring up the dallas map in MAPFIX, use the alt-G command to replay the track history and all of the posits will be plotted on the map. Use the alt-NEW and alt-ADD commands to DRAW a PURPLE (color 13) line over those track history points and you will have an EXCELLENT route map for your marathon. Sketch any other detail you can think of....

If you really want to have fun. Run APRSdr and put the lead runner on the purple line as an object, and give it a speed of 9 knots. And that object will run the marathon even without a tracker...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

177. Re: [APRSSIG:4958] APRS: Newbie Question

From: JAgrelo@aol.com
Date: Wed, 6 Dec 1995 16:24:48 -0500
To: aprssig@tapr.org
Message-ID: <951206162444_126779050@mail06.mail.aol.com>
Rendered body type: text/plain

In a message dated 95-12-06 15:39:35 EST, you write:

>I have some real basic questions about APRS (also about Packet Radio). If
>anyone can tackle a few for me, I'd appreciate it. Here we go...

>Q: Where are FAQ files for APRS and Packet Radio?

Download the APRS program from aprssig@tapr.org in the upload section and

check out all of the readme files in the program itself, the program is available in Mac or DOS.

>Q: How is APRS pronounced?

A,P,R,S or (long) A'pers sounds like PAPERS or Automatic Packet Reporting System

>Q: Can someone who is not an Amateur radio operator have an APRS setup
>(roaming transmitter and base)?

Yes, but the transmitter is the main concern, are you licenesed to operate on a particular frequency?

>Q: (I picked up the buzzword TNC) How dumb/intelligent are these
>things--what features and costs are there?

TNC's (Terminal Node Controller) are intelligent enough to do the job, and are available as low as around \$129.00.

>Q: What kind of collision detection is used before/during packet
>transmitting is used (if any) ?

The AX.25 radio packet protocol has this built into and is in all TNC's.

>Q: What is the smallest and most portable transmitter configuration
>(Locator/TNC/Radio) ? How long will this configuration last on a set of
>batteries?

Well, this is a very broad banded question, but I will try. The transmitter can be as small as 1.920" x .536" and as big as a house, the preliminary questions should be, how much power is required and desired range. The TNC's are available the size of a cigarette pack. And how long will it last depends on how much power the transmitter is putting out and how often. There are no solid answers until the requirements are detemined first.

>Q: Are there any portable radio's with a built in TNC?

Some.

>Q: What kind of base software is available? Do they run on DOS, Windows or
>...??

APRS in DOS, Mac, and soon Windows.

>Q: Roughly, how many roaming devices are potentially in use? How many bases
>are there?

How many people chew gum, I don't know!

>Q: What are the current limitations of APRS? i.e., maximum units being
>tracked, maximum distance from base (or repeaters), error rate, ...?

There is no limitation to the amount of traffic except, the more there are on frequency the harder it becomes for the TNC to handle it (more possible collisions).

>Q: What is APRS currently being used for? What about the future?

Emergencies, marathons, tracking my wife, dogs, dead cats (I am allergic to them),RC planes, rockets, balloons, cars, boats, bugs (fleas, tics, ants, grasshoppers, butterflies, birds, golfballs, boogers,etc....)

>Q: When will every vehicle, child, and dog be tracked via APRS ? :-)

Everyone in the world, hmmmm.

>Thanks for any replies, --Lance

>D.Lance Robinson (lancer@airways.com)

>Office: (707)526-6488 ! /==\ /7 /-----
> Fax: (707)526-5643 <=====! ----(Airways Technology, Inc. (
> Home: (707)823-8227 ! 8 \-----

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057

Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

178. Re: [APRSSIG:4949] Re: 144.390????

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Dec 1995 16:29:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951206162706.13638I-100000@greatlakes>
Rendered body type: text/plain

On Wed, 6 Dec 1995, Young, Gregory wrote:

> It's time for ALL to sit down and try to coordinate things a bit! The
> growth of digital has far exceeded the demand for repeaters, manyfold. Look
> at the spectrum allotted for those devices.. take a listen to the activity on
> those, or should I say lack of activity..

APR REPLY: And all of those voice repeaters could be used simultaneously
for full duplex long distance 9600 baud data links. 70 channels on 2
meters too. It can be done, is simple, and does NOT impact current voice
users. See my 70chnls.2m README FILE...

179. Re: [APRSSIG:4957] TAPR web site

From: alanwc7r@primenet.com (Alan Unangst)
Date: Wed, 06 Dec 1995 14:29:43 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199512062129.0AA16081@usr2.primenet.com>
Rendered body type: text/plain

Haven't been able to get in today, at all. looking to download mkmapkpe.zip
understand that it has some refinements. no answer to the problem, but just
to let you know that you are not alone...73...alan, WC7R..//\\

At 01:24 PM 12/6/95 -0600, JAgrelo@aol.com wrote:

>I havn't been able to retrieve the TAPR web site for 2 days now, is anyone
>else having this problem?

>
> 73 de Joe N200C

>-----
>-----
>
> Joe Agrelo/N200C
> Agrelo Engineering
> Ph (518)381-1057
> Fx (518)381-1058
> E-mail- jagrelo@aol.com
> In the Web <http://home.navisoft.com/agrelo/ae.htm>
> Designer and Manufacturers of intelligent microprocessor based Doppler
> and talking products
> Experts in Microchip and Motorola processors
> Cruise Missile Coordinates 42 47.427N, 073 56.525W
>-----
>-----
>
>
>

180. Re: [APRSSIG:4958] APRS: Newbie Question

From: alanwc7r@primenet.com (Alan Unangst)
Date: Wed, 06 Dec 1995 14:35:16 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199512062135.0AA17265@usr2.primenet.com>
Rendered body type: text/plain

1) Frequently Asked Questions

2) It isn't! it is an anachronism. It stands for Automatic Packet Reporting
System

3) NO!

4) Another anachronism...Terminal Node Controller.

5)...I've got an idea....this is taking a lot of time. Try gettting an active ham in your area to answer your questions. If you can't find one contact the American Radio Relay League (ARRL). The ARRL ha a good www site!

73, and good luck...Alan, WC7R

At 01:27 PM 12/6/95 -0600, Lance Robinson wrote:

```
>Hello All,
>
>I have some real basic questions about APRS (also about Packet Radio). If
>anyone can tackle a few for me, I'd appreciate it. Here we go...
>
>
>Q: Where are FAQ files for APRS and Packet Radio?
>
>Q: How is APRS pronounced?
>
>Q: Can someone who is not an Amateur radio operator have an APRS setup
>(roaming transmitter and base)?
>
>Q: (I picked up the buzzword TNC) How dumb/intelligent are these
>things--what features and costs are there?
>
>Q: What kind of collision detection is used before/during packet
>transmitting is used (if any) ?
>
>Q: What is the smallest and most portable transmitter configuration
>(Locator/TNC/Radio) ? How long will this configuration last on a set of
>batteries?
>
>Q: Are there any portable radio's with a built in TNC?
>
>Q: What kind of base software is available? Do they run on DOS, Windows or ...?
>
>Q: Roughly, how many roaming devices are potentially in use? How many bases
>are there?
>
>Q: What are the current limitations of APRS? i.e., maximum units being
>tracked, maximum distance from base (or repeaters), error rate, ...?
>
>Q: What is APRS currently being used for? What about the future?
>
>Q: When will every vehicle, child, and dog be tracked via APRS ? :-)
>
>
>Thanks for any replies, --Lance
>
>-----<><
>D.Lance Robinson (lancer@airways.com)
>Office: (707)526-6488      ! /==\  /7      /-----
> Fax: (707)526-5643      <=====! ----( Airways Technology, Inc. (
> Home: (707)823-8227      ! 8      \-----
>
>
```

181. Train trips ETC...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Dec 1995 17:14:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951206171223.13638K-100000@greatlakes>
Rendered body type: text/plain

One way to communicate your travel planns to all APRS users is to enter all the way points into an APRS track history file. You can then post that message here as a text message, everyone can replay it, and they will see ALL your waypoints on their MAPS....

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

182. UHF Backbone, was RE: Best band?

From: Willson Flor <willf@rrgroup.com>
Date: Wed, 6 Dec 1995 16:44:58 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3951206164500GL005C00@rrgroup3>
Rendered body type: text/plain

You wrote:

From: Paul Moller[SMTP:Paul_Moller@csg.mot.com]
Sent: Wednesday, December 06, 1995 11:25AM
To: aprssig@tapr.org
Subject: [APRSSIG:4954] Best band?

. I would recommend that APRS stay on 2m for mobile and related uses. (I will
. stay out of the 145.790 freq. discussion). But, is there a need for a
. backbone type link between major metropolitan areas running 9k6 baud on UHF.
. I say yes! Its only a matter of time until the single 1200 baud channel is
. congested. (Gee sounds just like 2m packet was like 10 years ago, before the
. addition of other channels.) Is there a plan to incorporate multiple tnc's
. and new path names into APRS to handle the desire to show up in multiple
. cities without going to hf? In Chicago I would like to see the WX in
. Milwaukee, and St. Louis, and Greenbay and etc, but just listen to 30 m
. today, it's getting busy! Just a thought.
.
.

Hear, hear!! a great idea! I've been an advocate of this idea for some time, but haven't had much luck in interesting others. Are there others around who are interested?

. Paul, WD9ABE
. Maybe closer to Great Lakes NTC than anybody.

-Will KB9JTT
New Berlin, Wisconsin
Approx. 7 miles from the Great Lakes (but farther from GLNTC)

183. Re: [APRSSIG:4960] Dallas Marathon

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 6 Dec 1995 16:49:34 -0600
To: aprssig@tapr.org
Message-ID: <v02130501acebc8a322a3@[199.1.11.125]>
Rendered body type: text/plain

>The Dallas White Rock Marathon will be held on this coming Sunday, December
>10.
>If there is anyone out there who has access to the 2,000,000:1 data for

I have the 2,000,000 to 1 CD-ROM and Keith Sproul is sending street level
100,000 - 1 maps for MacAPRS this week.

The 2,000,000 level maps are too crude. I can read PC aprs maps but
can not make them.

Most of the Computer APRS system will be PC based.

Looks like we need PC maps of a 3 mile radius centered on
Lat 32d 49m 30s
Lon 096d 45m 30m grid Em12ot or near Zipcode 75205.

I plan to try making a TIFF of GIF file of the supplied course map
and a PICT of the Delorma Street Atlas 2.0 then run the route with
GPS input to the APRS Mac portable and then try to align the maps.

Bill KE4EER Is good at 2 mile PC maps (how about it Bill ??)

We will report back to the sig our results.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

184. Re: [APRSSIG:4963] Re: Dallas Marathon

From: rwf <rwf@mindspring.com>
Date: Wed, 6 Dec 1995 19:52:45 -0500
To: aprssig@tapr.org
Message-ID: <199512070052.TAA06196@borg.mindspring.com>
Rendered body type: text/plain

I will be at the marathon in Dallas, helping out. I was also looking for
someone with 2,000,000:1 data for a map, but since Bob says there is no
further data- he must have made the existing one with the available data. I
don't remember the Dallas maps looking like the sample TN map or any of my
GA maps, though. Maybe it is just the water and boundaries that make it
look better.

Claude- I'll be glad to do the update to the existing map if you'll get me the gps track. Put aprs on a laptop with no tnc enabled, set the pos rast to every 10 seconds as Bob says and then drive. Send me the tk?????.hst file you save with the F S command. That's how I update a lot of maps.

Ralph
N4NEQ-Atlanta

At 03:40 PM 12/6/95 -0600, you wrote:
>REGARDING the marathon in Dallas. The existing map is all you are going
>to get from the 2,000,000 CD ROM. (more water and boundaries are
>possible) but no more roads. Your best bet is to send one of your
>trackers ourd driving with a GPS rate of once every 10 seconds, and
>either save a track history in his laptop, or pick him up off the air,
>and save the track history.
>
>Then bring up the dallas map in MAPFIX, use the alt-G command to replay
>the track history and all of the posits will be plotted on the map. Use
>the alt-NEW and alt-ADD commands to DRAW a PURPLE (color 13) line over
>those track history points and you will have an EXCELLEMT route map for
>your marathon. Sketch any other detail you can think of....
>
>If you really want to have fun. Run APRSdr and put the lead runner on the
>purple line as an object, and give it a speed of 9 knots. And that
>object will run the marathon even without a tracker...
>
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
>
>

185. Re: [APRSSIG:4966] Re: TAPR web site

From: ke4eer@ro.com (William Nolle)
Date: Wed, 06 Dec 1995 18:34:29
To: aprssig@tapr.org
Message-ID: <199512070140.TAA09353@sh1.ro.com>
Rendered body type: text/plain

I have downloaded from it last night and got the update, it's been Up/Dn the last few days tough.

Bill KE4EER

>Haven't been able to get in today, at all. looking to download mkmapkke.zip
>understand that it has some refinements. no answer to the problem, but just
>to let you know that you are not alone...73...alan, WC7R..//\\

>
>At 01:24 PM 12/6/95 -0600, JAgrelo@aol.com wrote:
>>I havn't been able to retrieve the TAPR web site for 2 days now, is anyone
>>else having this problem?

>>
>> 73 de Joe N200C

>>-----
>>-----
>>
>> Joe Agrelo/N200C
>> Agrelo Engineering
>> Ph (518)381-1057
>> Fx (518)381-1058
>> E-mail- jagrelo@aol.com
>> In the Web <http://home.navisoft.com/agrelo/ae.htm>
>> Designer and Manufacturers of intelligent microprocessor based Doppler
>> and talking products
>> Experts in Microchip and Motorola processors
>> Cruise Missile Coordinates 42 47.427N, 073 56.525W
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>>
>>
>>
>

186. Re: [APRSSIG:4971] Re: Dallas Marathon

From: ke4eer@ro.com (William Nolle)
Date: Wed, 06 Dec 1995 20:15:04
To: aprssig@tapr.org

Message-ID: <199512070321.VAA04384@sh1.ro.com>
Rendered body type: text/plain

Hnag loose guys just downloaded the file for Dallas from USGS biy they do everything BIG in Texas, i have never seen so many files for one city WOW. So hang in there i'm working on it but will only do the roads no water. I still don't know if you wanted a 3 Mile map form center or overall. If from center that may be to large to make in one map. Back to the unzipping and blocking.

Bill KE4EER

>I will be at the marathon in Dallas, helping out. I was also looking for
>someone with 2,000,000:1 data for a map, but since Bob says there is no
>further data- he must have made the existing one with the available data. I
>don't remember the Dallas maps looking like the sample TN map or any of my
>GA maps, though. Maybe it is just the water and boundaries that make it
>look better.
>
>Claude- I'll be glad to do the update to the existing map if you'll get me
>the gps track. Put aprs on a laptop with no tnc enabled, set the pos rast
>to every 10 seconds as Bob says and then drive. Send me the tk?????.hst
>file you save with the F S command. That's how I update a lot of maps.
>
>Ralph
>N4NEQ-Atlanta
>
>
>
>
>At 03:40 PM 12/6/95 -0600, you wrote:
>>REGARDING the marathon in Dallas. The existing map is all you are going
>>to get from the 2,000,000 CD ROM. (more water and boundaries are
>>possible) but no more roads. Your best bet is to send one of your
>>trackers ourd driving with a GPS rate of once every 10 seconds, and
>>either save a track history in his laptop, or pick him up off the air,
>>and save the track history.
>>
>>Then bring up the dallas map in MAPFIX, use the alt-G command to replay
>>the track history and all of the posits will be plotted on the map. Use
>>the alt-NEW and alt-ADD commands to DRAW a PURPLE (color 13) line over
>>those track history points and you will have an EXCELLEMT route map for
>>your marathon. Sketch any other detail you can think of....
>>
>>If you really want to have fun. Run APRSdr and put the lead runner on the
>>purple line as an object, and give it a speed of 9 knots. And that
>>object will run the marathon even without a tracker...
>>
>>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
>>
>>
>

187. Re: [APRSSIG:4962] APRS Information Needed (Answers)

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 6 Dec 1995 21:16:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.951206211236.169C-100000@laraby.tiac.net>
Rendered body type: text/plain

On Wed, 6 Dec 1995, Bob Bruninga wrote:

> FOLLOWING REPLY ARE CAPATIALIZED FOR RECOGNITION.
>
> > Chris Petersen, INTERNET:102261.1225@compuserve.com ASKED:
(snip)
> > Does APRS need the exclusive use of a frequency and why?
> *YES. THE ESTABLISHED APRS NET IS FOR TRACKING MOBILES. MOBILES TRAVEL.

Whoa! That's news to me. Guess I'll have to trash my WX station, and give up any thought of DF use! ;-)

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

188. Re: [APRSSIG:4972] Re: TAPR web site

From: Greg Jones <wd5ivd@tapr.org>
Date: Wed, 6 Dec 1995 20:31:31 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512070231.UAA20014@sys1.tapr.org>

Rendered body type: text/plain

TAPR.ORG has been working fine. The problem was with a router at the San Antonio provider. It should be fixed now. We are having some problems with interactive sessions -- but this should be fixed soon with an additional 16Megs of memory.

Just remember Internet does have problems from time to time -- it is not always a system you are trying to get to. As more and more people get on -- there are becoming periods of slow access depending on where you are located on the network and where you are trying to go or get things.

Cheers - Greg

```
>
> I have downloaded from it last night and got the update, it's been Up/Dn
> the last few days tough.
>
> Bill KE4EER
> -----
> >Haven't been able to get in today, at all. looking to download mkmapkke.zip
> >understand that it has some refinements. no answer to the problem, but just
> >to let you know that you are not alone...73...alan, WC7R../\\
> >
> >At 01:24 PM 12/6/95 -0600, JAgrelo@aol.com wrote:
> >>I havn't been able to retrieve the TAPR web site for 2 days now, is anyone
> >>else having this problem?
> >>
> >> 73 de Joe N200C
> >>-----
> >>-----
> >>
> >> Joe Agrelo/N200C
> >> Agrelo Engineering
> >> Ph (518)381-1057
> >> Fx (518)381-1058
> >> E-mail- jagrelo@aol.com
> >> In the Web http://home.navisoft.com/agrelo/ae.htm
> >> Designer and Manufacturers of intelligent microprocessor based Doppler
> >> and talking products
> >> Experts in Microchip and Motorola processors
> >> Cruise Missile Coordinates 42 47.427N, 073 56.525W
> >>-----
> >>-----
> >>
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>
>
>
```

189. Re: [APRSSIG:4971] Re: Dallas Marathon

From: n2czf@gate.net
Date: Wed, 6 Dec 1995 22:19:42 -0500
To: aprssig@tapr.org
Message-ID: <199512070319.WAA26135@tequesta.gate.net>
Rendered body type: text/plain

If you are going to save the "drive" as a .HST file on a laptop make SURE that APRS is saving the LOG file!! I made this mistake recently forgetting that APRS had some changes since I last used a LAPTOP/APRS mobile setup. On your Control screen you will see LOGS (or is it LOG?) in a window, make sure it is uppercase.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

190. Re: [APRSSIG:4921] Re: CHANGE 145.79?!

From: quarry@q.continuum.net (Chip)
Date: Wed, 6 Dec 1995 23:02:45 -0500
To: aprssig@tapr.org
Message-ID: <v01530504acec12648a80@[199.0.52.53]>
Rendered body type: text/plain

At 13:32 12/5/95, Steve Dimse wrote:

> I think everyone is very much over-reacting to the present situation.

Agreed.

> 1. 145.800 is one of three freqs listed.
 >
 > 2. Even if it were the only one, there would be QRM to 145.79 for a few
 > minutes at a time, several times a day. Not a 24 hr a day problem for us
 > by any means.
 >
 > 3. The QRM from APRS to MIR will be far greater, since APRS consists of
 > automated stations which will not be able to be shut down during a pass.
 > I doubt they will continue using this freq over the US once they hear
 > what it sounds like up there.
 >
 > My opinion, for the little it is worth, it to leave things were they are.
 > If we move, next week someone may try to put something on 145.78!

I don't see what all the hub bub is about anyway ... we operate packet stations on 145.01, 145.03, 145.05, 145.07, and 145.09 all with the same spacing as we are discussing here ... and they manage with no interference to each other despite close proximity ... forgive me for my daftness, but perhaps someone should explain it to me one more time.

In the meantime, if we are to change frequencies (which is fine for me since I'm not crystal bound) we ought to be both cautious and quick about selection.

1. It won't be easy because many people have spent a lot of time doing what they are doing where they are doing it and people like to resist change.
2. You can't please everyone all the time. (In other words: no matter what frequency you choose there will be someone who has a "major" problem with it.)
3. If someone has to move there may be reasons why it is better for us then them. While it is always easier to point to the other fella, there are schools and people a lot less resources then we have who may be locked in to their frequency. How many of us are really locked in to that frequency anyway? A handful?
4. Perhaps another compromise can be mediated it moving is not reasonable for either party. Perhaps, for example, we could 'shut down' or minimize the net for the duration of a SAREX mission.

Just food for thought, flames are neither required nor desired.

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
 BBS System Operator of The Quarry (860-889-6427)
 - eMail to: quarry@q.continuum.net (alternate: emmet2@aol.com)
 - FidoNet to: Chip@1:320/301.0 or .1
 my home page: <http://q.continuum.net/~quarry/>
 TRAUG home page: <http://q.continuum.net/~quarry/TRAUG.html>

191. Re: [APRSSIG:4937] Re: Any demand for rail history APRS maps?

From: Turnstone@aol.com
 Date: Thu, 7 Dec 1995 00:09:32 -0500
 To: aprssig@tapr.org
 Message-ID: <951207000745_127165070@emout04.mail.aol.com>
 Rendered body type: text/plain

Ken,
 I'm interested in the railroad info, too. Glad to know it's available.
 - Tom KC7AGK Salem, OR (turnstone@aol.com)

192. Re: [APRSSIG:4961] APRS Train Trip

From: dwetzel@acs.uswest.com
 Date: Wed, 6 Dec 1995 22:38:03 -0600
 To: aprssig@tapr.org
 Message-ID: <0c676a00@acmspgw1.mnet.uswest.com>
 Rendered body type: text/plain

Randy, you will find virtually all APRS activity in the Salt Lake City area on 145.15. Although we are working on a 145.79 coordination (current sig discussions notwithstanding!), all of our stations are active on .15 today. You'll see "genuine" APRSers KC7CO (-1 and -2), KB7DD, AA7AA (maybe), N7YOD, and relays from 30m if KB7DD has the GATE up (which he does most weekends). There are a number of RELAYs about, and I have a WIDE up on the south end of the Salt Lake valley. I think we had a discussion about this several weeks ago - our high altitude WIDE is still waiting for coordination, but will be dynamite

when it comes - 9000 feet in elevation and probably 75 - 100 mile coverage each way, north, south, and west.

Reply Separator

Subject: [APRSSIG:4961] APRS Train Trip
Author: aprssig@tapr.org at Internet-Mail
Date: 12/6/95 2:58 PM

Randy's Great American APRS Train Trip

or

My Wife Thinks There Is Too Much Technology On This Trip.

Two weeks from today, Wed Dec 20 to Sat Dec 23, my wife and I will be on the AMTRAK train from Sacramento Ca. to Rochester NY for Christmas.

The trip basically is from:

Sacramento, Reno, Salt Lake City, Denver, Lincoln, Omaha, Chicago, Toledo, Cleveland, Buffalo, and Rochester.

I'll have along my goodie bag of toys including; PC Laptop, FT-51R & FT470 HTs, Pico Packet TNC, GPS-45 w/active ant, Scanner for rail monitoring and batteries. I'll also have along some reading material, Walkman with AM/FM radio, camcorder, clean underwear, Swiss Army knife, and a bottle of Scotch. We will have a Deluxe sleeper compartment to Chicago, then in a much smaller sleeper the last night going into Rochester. The Deluxe sleeper room has power available.

I plan on having my APRS system up and running along the trip. I need information about areas along the trip that have APRS activity and the local APRS frequency. Otherwise, I'll transmit on 145.79 MHz. I'll try and keep it running as much as I can. I don't know if I'll have room to keep the station running at night, but be on the lookout for it. The TNC has a PBBS, so leave me a message!

Please pass along your local APRS frequency. I'll be using the RELAY,WIDE,WIDE path, unless different for local areas. Point your beams at the train track!!

I'll try to also monitor the 2M FM railfan frequency of 146.49 MHz along the way.

I have found the lats and longs for each stop (Internet is great!) and will enter all that data into the GPS-45 as waypoints.

Below is the rail timetable, so that you can be on the lookout for me. I don't know how close AMTRAK keeps to schedule (if I get there on the right day that is probably doing good!). Also below is the lats and longs for the stops. If you have a better posit for the train station, please pass it along.

If anyone has any suggestions that will improve my operation, please pass them along.

Busy packing, planning, and testing,

Randy
WA2AGE
randyh@gvgadg.gvg.tek.com

| 5 | Train Number | 6 |
|------------------|-----------------------|------------------|
| SuTuWeFr | Days of Operation | MoWeFrSa |
| | to/from Oakland | |
| Read Down | | Read Up |
| Miles | Station | Symbol |
| SuTuWeFr departs | | arrives WeFrSuMo |
| 3:00p | 0 dp Chicago, IL. | ar 4:30p |
| 3:35p | 24 Naperville, IL. | 3:15p |
| 4:45p | 104 Princeton, IL. | 2:00p |
| 5:48p | 162 Galesburg, IL. | 1:07p |
| 6:36p | 205 Burlington, IA. | 12:05p |
| 7:09p | 233 Mt. Pleasant, IA. | 11:30a |
| 7:54p | 280 Ottumwa, IA. | 10:45a |

| | | | |
|----------|------|------------------------------------|----------|
| 9:10p | 360 | Osceola, IA. | 9:24a |
| 9:41p | 393 | Creston, IA. | 8:49a |
| 11:37p | 501 | ar OMAHA, NE. | dp 7:00a |
| 11:59p | | dp OMAHA, NE. | ar 6:35a |
| MoWeThSa | | | |
| 1:07a | 555 | ar LINCOLN, NE. | dp 5:30a |
| 1:17a | | dp LINCOLN, NE. | ar 5:20a |
| 2:50a | 652 | Hastings, NE. | 3:47a |
| 3:39a | 706 | Holdrege, NE. | 2:55a |
| 4:58a | 784 | McCook, NE. (CT) | 1:48a |
| WeFrSuMo | | | |
| 6:23a | 960 | Ft. Morgan, CO. (MT) | 10:15p |
| 8:25a | 1037 | ar DENVER, CO. | dp 9:00p |
| 9:10a | | dp DENVER, CO. (bus Colo. Springs) | ar 7:50p |
| 11:05a | 1100 | Winter Park, Fraser CO. | 5:05p |
| 11:35a | 1113 | Granby, CO. | 4:40p |
| 2:50p | 1222 | Glenwood Springs, CO. | 1:30p |
| 4:55p | 1311 | Grand Junction, CO. | 11:45a |
| 6:10p | 1390 | Thompson, UT. (flag stop) | 9:45a |
| 8:00p | 1488 | Helper, UT. | 8:10a |
| 10:05p | 1564 | Provo, UT. | 6:05a |
| 11:36p | 1608 | ar SALT LAKE CITY, UT. (MT) | dp 5:15a |
| TuThFrSu | | | |
| 12:35a | | dp | ar 4:08a |
| TuThSaSu | | | |
| 3:48a | 1871 | Elko, NV. (PT) | 10:18p |
| 5:55a | 2009 | Winnemucca, NV. | 8:13p |
| 7:30a | 2062 | Lovelock, NV. | 7:05p |
| 9:15a | 2180 | ar SPARKS, NV. | dp 5:35p |
| 9:30a | | dp | ar 5:20p |
| 9:41a | 2184 | Reno, NV. | 5:00p |
| 10:34a | 2216 | Truckee, CA. (Lake Tahoe) | 4:03p |
| 12:42p | 2284 | Colfax, CA. | 1:52p |
| 1:48p | 2319 | Roseville, CA. | 1:02p |
| 2:40p | 2337 | Sacramento, CA. | 12:35p |

| 48 | Train Number | 49 |
|--|--------------------------------|--------------|
| Daily | Station | Daily |
| (read down) | | (read up) |
| Amtrak Thruway Bus Connection--Madison WI/Chicago IL | | |
| Schedule below | | |
| 8:00p | 0 dp Chicago, IL | CT ar 12:28p |
| 8:29p | 16 Hammond-Whiting, IN | CT 11:34p |
| 10:35p | 84 South Bend, IN | EST 11:31a |
| 11:02p | 101 Elkhart, IN | EST 11:06a |
| 11:50p | 156 Waterloo, IN | EST 10:20a |
| 12:12a | 181 Bryan, OH | ET 9:55a |
| 1:16a | 234 ar Toledo, OH | dp 9:04a |
| 1:34a | dp Toledo, OH | ar 8:39a |
| 2:24a | 281 Sandusky, OH | 7:43a |
| 2:58a | 316 Elyria, OH (Lorain) | 7:09a |
| 3:36a | 341 ar Cleveland, OH | 6:36a |
| 3:46a | dp Cleveland, OH | 6:26a |
| 5:14a | 436 Erie, PA | 4:53a |
| 6:47a | 528 ar Buffalo, NY (Depew Sta) | dp 3:21a |
| 7:17a | dp Buffalo, NY (Depew Sta) | ar 2:51a |
| 8:15a | 589 Rochester, NY | 1:52a |

| | | | |
|------------------|----|------------|-------------------|
| SACRAMENTO | CA | 38 35 5 N | 121 29 23 W |
| ROSEVILLE | CA | 38 44 52 N | 121 17 6 W |
| COLFAX | CA | 39 5 59 N | 120 57 10 W |
| TRUCKEE | CA | | |
| RENO | NV | 39 31 22 N | 119 48 25 W |
| SPARKS | NV | 39 32 16 N | 119 45 7 W |
| LOVELOCK | NV | 40 10 48 N | 118 28 22 W |
| WINNEMUCCA | NV | 40 58 22 N | 117 43 55 W |
| ELKO | NV | 40 49 48 N | 115 45 36 W |
| SALT LAKE | UT | 40 32 31 N | 111 53 49 W PROVO |
| | UT | 40 13 58 N | 111 39 25 W |
| HELPER | UT | 39 41 16 N | 110 51 10 W |
| THOMPSON | UT | 38 58 26 N | 109 43 4 W |
| GRAND JUNCTION | CO | 39 4 4 N | 108 33 0 W |
| GLENWOOD SPRINGS | CO | 39 32 34 N | 107 19 19 W |
| GRANBY | CO | 40 4 58 N | 105 56 24 W |
| WINTER PARK | CO | 40 4 30 N | 106 2 27 W |
| DENVER | CO | 39 44 24 N | 104 59 16 W |
| FORT MORGAN | CO | 40 15 10 N | 103 48 0 W |
| MCCOOK | NE | 40 12 18 N | 100 37 37 W |

| | | | |
|-------------|----|------------|------------|
| HOLDREGE | NE | 40 26 23 N | 99 22 19 W |
| HASTINGS | NE | 40 35 24 N | 98 23 6 W |
| LINCOLN | NE | 40 49 22 N | 96 41 6 W |
| OMAH | NE | 41 16 58 N | 96 0 29 W |
| CRESTON | IA | 41 3 28 N | 94 21 43 W |
| OSCEOLA | IA | 41 2 5 N | 93 46 2 W |
| OTTUMWA | IA | 41 1 12 N | 92 24 37 W |
| MT PLEASANT | IA | 40 57 28 N | 91 33 25 W |
| BURLINGTON | IA | 40 48 36 N | 91 13 58 W |
| GALESBURG | IL | 40 56 52 N | 90 22 1 W |
| PRINCETON | IL | 41 22 30 N | 89 28 6 W |
| NAPERVILLE | IL | 41 46 4 N | 88 7 38 W |
| CHICAGO | IL | 41 52 58 N | 87 37 30 W |
| HAMMOND | IL | 39 47 41 N | 88 35 31 W |
| SOUTH BEND | IN | 41 40 29 N | 86 15 7 W |
| ELKHART | IA | 41 47 31 N | 93 31 23 W |
| BRYAN | OH | 41 28 22 N | 84 33 7 W |
| TOLEDO | OH | 41 35 27 N | 83 31 42 W |
| SANDUSKY | OH | 41 26 52 N | 82 42 26 W |
| ELYRIA | OH | 41 21 54 N | 82 6 36 W |
| CLEVELAND | OH | 41 29 49 N | 81 41 59 W |
| ERIE | PA | 42 6 46 N | 80 4 23 W |
| BUFFALO | NY | 42 53 13 N | 78 52 30 W |
| ROCHESTER | NY | 43 9 28 N | 77 36 29 W |

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-----
|                               My opinions are my own.                               |
|                                                                                       |
|                               My computer is multimedia deprived.                     |
|                                                                                       |
| Randy Hall WA2AGE   randyh@gvgadg.gvg.tek.com   Grass Valley Group   |
-----

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193. APRS symbols

From: n8mwz@alpha.wcoil.com (Bob Hartman)
Date: Thu, 7 Dec 1995 00:57:30 -0500
To: aprssig@tapr.org
Message-ID: <199512070557.AAA02881@alpha.wcoil.com>
Rendered body type: text/plain

WB2NGZ@AOL.com said:

>P.S.: I am still waiting for WB4APR to include an ICBM symbol in APRS that
>explodes on impact so that our Daytona Beach "war games" will be more
>realistic...He He.

That brings up a question.. Are they now, or will it be possible in the
future to
customize the symbols used in APRS? It might be useful for special events
or just horsing around. (what's that I see, a miniature sleigh leaving the
North Pole
on a DR path to my QTH??.. grin)

194. Re: [APRSSIG:4939] HELP with pico w/2nd serial port and internal GPS

From: barrettd@crpl.cedar-rapids.lib.ia.us
Date: Thu, 07 Dec 1995 00:51:18 -0600
To: aprssig@tapr.org
Message-ID: <199512070650.AAA02950@sys1.tapr.org>
Rendered body type: text/plain

At 01:28 AM 95-12-6 -0600, you wrote:

>Hi everybody, I'm new to aprs and newer to internet.My problem is when I go
>mobile I don't see myself on the map.I see everybody else,and they see
>me,and I see myself being digi'd. I would be very greatful for any sugesstions
>thank you all 73 Scott
>
>

When using a pico with the second serial port the is a TNC command that has
to be used, its ELO on.
ELO on caused the GPS data to stream onto the serial port 1 of the TNC which
is connected to your computer running APRS. This eliminates the need for the
hardware single port cable, and is quite effective.

Pertinet commands

LOC EVERY 3 number*10 seconds

GPSTEXT \$GPRMC Your \$GP??? NMEA Data type

ELO Echo's GPS NMEA data to serial

port 1 from 2

For a standalone tracker you would also do GPS on

Hope that helps
barrettd

195. Dallas Maps

From: ke4eer@ro.com (William Nolle)
Date: Thu, 07 Dec 1995 00:45:28
To: aprssig@tapr.org
Message-ID: <199512070752.BAA24409@sh1.ro.com>
Rendered body type: text/plain

I just uploaded the Dallas Marathon maps. They total 26 maps in all to cover that area (I HOPE). I did not include any waterways or streams since that area is so populated that i had a hard time making .75 Mile center maps. I had attempted several 1 mile maps but the software choked on them. It also includes a special maplist called MAPLIST.MAR to cover just that area!. The grid is 5 maps vertical and 6 maps horizontal, so i hope that enough to cover the area you guys need. If not i maybe able to add a row if needed. Gosh that's a BIG city, i had to download 34 Meg unzipped from USGS. They are on Tapr in the upload directory since it looks like we are not allowed to upload into the PCMaps directory (At least i couldn't).

Bill KE4EER
ke4eer@ro.com

196. APRS Maps

From: ke4eer@ro.com (William Nolle)
Date: Thu, 07 Dec 1995 01:13:52
To: aprssig@tapr.org
Message-ID: <199512070820.CAA25105@sh1.ro.com>
Rendered body type: text/plain

Bob would it be to much to ask if there's a way to let the F3 key go smaller then the 1 mile range. When doing the maps for that Dallas marathon and wanting to zoom in and show the map borders (Specially the + centers they don't show untill way to late. That works great as long as the maps are 1 mile or more. Now with all the detailed maps that should be addressed i think.

Bill KE4EER
ke4eer@ro.com

197. Re: [APRSSIG:4946] Mail Bumps

From: n2czf@gate.net
Date: Wed, 6 Dec 1995 18:25:19 -0500
To: aprssig@tapr.org
Message-ID: <199512062325.SAA41721@tequesta.gate.net>
Rendered body type: text/plain

Greg, I tend to agree with your thoughts on Mail Bumps. Seems that the only time I get dropped is AFTER I send a message to the APRSSIG. If I stay quiet I do not get bumped but if I make a few postings I get dropped.

Thanks for working of the problem!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

198. Re: [APRSSIG:4962] APRS Information Needed (Answers)

From: Randy Hammock <hammock@tis.telos.com>
Date: Thu, 7 Dec 1995 08:28:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.951207081445.8078A-100000@zentropa>
Rendered body type: text/plain

On Wed, 6 Dec 1995, Bob Bruninga wrote:

> > Why does APRS need a nation-wide frequency?
> OOPS, SAME AS ABOVE.. SO MOBILES OR EMERGENCY RESPONSE TEAMS CAN MOVE
> FROM AREA TO AREA TRANSPARENTLY. WE CAN TRAK AN AUTO FROM MAINE TO NORTH
> CAROLINA (ALMOST) AND FROM GA TO MS. THE AUTO NEVER NEEDS TO STOP, TO
> CHANGE FREQS, OR TO LOOK UP REPEATER CALLSIGNS, HE JUST DRIVES...

Though I've not used APRS, based on discussions from this SIG, it seems that the user has the arduous task of keeping the digi list updated so as

to achieve best coverage; however, if one is willing to accept whatever coverage RELAY,WIDE,WIDE gives, then it is fairly simple.

Hopefully my GPS-45 will arrive on Friday and I will be able to explore the above and learn more based on personal experience rather than by indirect observation.

--

| | |
|---------------------------------------|-------------------------|
| Randy Hammock KC6HUR | Randy.Hammock@Telos.com |
| Telos Information Systems - EDOS | hammock@gmd.trw.com |
| 7474 Greenway Center Drive; Suite 400 | Voice: +1 301 507-5904 |
| Greenbelt, Maryland 20770 | FAX: +1 301 507-5892 |

199. Re: [APRSSIG:4928] Re: 144.390????

From: mwalker@interlog.com (Mike Walker)
Date: Thu, 07 Dec 95 08:31:30 EST
To: aprssig@tapr.org
Message-ID: <199512071331.IAA13909@gold.interlog.com>
Rendered body type: text/plain

On Tue, 5 Dec 1995 18:06:45 -0600 (CST) you wrote:

>
>
>On Tue, 5 Dec 1995, HOLCOMB, GREGORY FRA wrote:
>
>> I have a question about 144.390 im not saying move or dont move im just
>> asking for more info b4 i "cast my vote"
>> 1. What is it used for in the US now?
>> 2. If a move was made could we go to 9600 at a later date?
>> 3. Would we have the power limmitions that i hear so many of you talking
>> about?
>> (digis with 5 watts dont work in the athens/atlanta area and mobiles
>> runing less than 10 watts dont work very well at all)
>> 4. I know that the cost of making modifications to radios would be
>> expensive but what are the long range benefits and would it be beter to
>> move now vs. moving when we have 3 times the users and digis?
>> 5. Is there a possible national cordinations on this (144.39)
>> frequency?ie having every body on the same frequency would be a much
>> beter situation
>>
>> thanks Lynn N4YCI at Univ of Georgia.....HI KIP!
>>
>>
>According to the ARRL Operating Manual...the ARRL bandplan places 144.390
>smack in the middle of the Oscar subband in the US...in Region 1 it would
>be 10 KHz away from the SSB meteor scatter freq....so there is the
>answer...why as why?
>
>de KD4UYR
>
>
>
Just to re-inforce the issue 144.390 is being used in Eastern Canada with a large number of digi's.

(Not to get on the weak signal people's back, as I do also work weak signal), I find that my packet radio stuff outsells the SSB stuff by 100:1 ratio (I work in a Amateur Radio Store).

Although there is a finite amount of bandwidth available, when push comes to shove, the band will expand to support those using it.

So far the 144.390 frequency has been used with little or no problems.

just my 2 cents worth....

cheers...mike

p.s. I can't believe the whining that goes on about spending \$24 on a set of crystals. A change in frequency for a digi is almost no effort, other than changing the crystals. You don't have to retune duplexors or even realign the radio. That's not even the cost of a case of beer here in Canada! (that's 24 bottles)

Mike Walker
127 High St. W.

mwalker@interlog.com
rf: va3mw@va3bbs

200. RE: APRS Symbols

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Thu, 7 Dec 95 9:01:36 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.818344896.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

> WB2NGZ@AOL.com said:
> >P.S.: I am still waiting for WB4APR to include an ICBM symbol in APRS that
> >explodes on impact so that our Daytona Beach "war games" will be more
> >realistic...He He.

This was ACTUALLY done in the Macintosh version.. I had been asked to do a demo for a Military research company, so I put in Tank symbols, Jeep, Helicopter, and one or two others, and had the ability to 'nuke' one..

It produced a very nice explosion on the screen, including the sound-effects. Then deleted the station..

>
> That brings up a question.. Are they now, or will it be possible in the
> future to
> customize the symbols used in APRS? It might be useful for special events
> or just horsing around. (what's that I see, a miniature sleigh leaving the
> North Pole
> on a DR path to my QTH??.. grin)

This type of 'fancy' capabilities will be more realistic on the Mac/Winodze versions.. The problem is that sending the stuff to transmit the new ICON over the air takes a reasonable amount of data... On VHF that wouldn't be a problem, but if you are transmitting the sleigh from the North Pole, it would probably want to go via HF also...

Bob and I discussed some stuff sort-of similar, for use with the SSIDs for special events, i.e. the ability to dynamically assign which -# is what type of ICON... This is actually implemented in the Mac/Winodze version, but has NEVER been publicized, and as far as I know never used...

To be able to transmit a NEW icon over the air would require the transmission of 256 characters (would NOT have to be all in one packet).. This would be a 16x16 color ICON..

Then, this NEW icon would be a valid symbol UNTIL you quit out of the program.

The big problem is that most (All?) of the first 96 characters are assigned already...

We DO have a method for using an alternative 96 characters/Icon types and this is implemented, but currently, it is not being used yet..

If there is anybody that REALLY would like this dynamic ICON capability please send PRIVATE mail to me, we will discuss it, and then if it seems reasonable, we may implement it later.. (Not for several months, thought too much else going on)

I already have a very simple format designed for this if we really want to do it.. I would just have to implement it..

Keith

| | |
|---|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

201. Re: [APRSSIG:4977] Re: CHANGE 145.79?!

From: "John B. Leonard" <jleonard@tbcnet.com>
Date: Thu, 07 Dec 95 08:14:27 -0500
To: APRS SIG <aprssig@tapr.org>
Message-ID: <199512071414.IAA24001@tbc2.tbcnet.com>
Rendered body type: text/plain

-- [From: * EMC.Ver #2.5.02] --

Can I suggest (again!) that, with a decent antenna, we don't need high power to get where we need to be seen on APRS?

And with reduced power, our chance of interference with our neighboring frequencies/services are also reduced? Especially if we get our radio's/tnc's outputs nominal.

And use of a bandpass filter makes it easier to hear other stations, so they don't need to run high power.

The dilemma posed by the "whatdoya think about moving frequency?" question could possibly be solved if we cleaned up our act a little.

----- REPLY, Original message follows -----

>
> 4. Perhaps another compromise can be mediated if moving is not reasonable for
> either party. Perhaps, for example, we could 'shut down' or minimize the net
> for the duration of a SAREX mission.
>
> Just food for thought, flames are neither required nor desired.
>
>

----- REPLY, End of original message -----

--

J Barry Leonard HamRadio N9VJQ/EN510W
Subependymoma 1990
DeKalb IL
E-MAIL: jleonard@tbcnet.com

202. RE: [APRSSIG:4982] Dallas Maps

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Thu, 7 Dec 1995 10:19:48 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <951207101948.20607e9a@exame2.dseg.ti.com>
Rendered body type: text/plain

WOW - Less than 12 hour turnaround on request for a map for the Dallas Marathon, and Bill has posted 26 maps to tapr. THANKS - Bill, I owe you one (or I owe you many!!) As soon as I get dug out from the morning's avalanche of mail and To-Dos I'll go get them. BTW, I got my tracker working last night (GPS-45, KPC-3, Kenwood 7950) so it looks like we are all set for the race. Bill, Thanks again!

73 Claude Head
K5DTN
214.386.8966 home
214.995.5040 office
chead@exame2.dseg.ti.com

203. Train Trip History File

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Thu, 07 Dec 1995 09:09:02 -0800
To: aprssig@tapr.org
Message-ID: <9512071708.AA01376@gvgadg.gvg.tek.com>
Rendered body type: text/plain

Hi,

I took Bob's suggestion and developed a history file of my up coming train trip.

I took the zipcode history file and change the calls to cities and also changed the lats and longs. I'm not sure if that was the correct way to generate the file, but it seems to work.

This was a good exercise, in that some of the cites that are the next stop were showing up much to the West, by a couple of cities. So, I used a map for some of the data.

So, cut out the below and save it as RAILTRIP.HST and load it into APRS.
Also an interesting thing to do is to put the railtrip and the zipcode list
into one file together and load that!

Randy

WA2AGE

| | | | | |
|-----------|--------|---------------|----------|-----------|
| SACRAMENT | 301440 | @301440/3835. | N/12129. | W-APRSSIG |
| ROSEVILLE | 301440 | @301440/3844. | N/12117. | W-APRSSIG |
| COLFAX | 301440 | @301440/3905. | N/12057. | W-APRSSIG |
| TRUCKEE | 301440 | @301440/3919. | N/12011. | W-APRSSIG |
| RENO | 301440 | @301440/3931. | N/11948. | W-APRSSIG |
| SPARKS | 301440 | @301440/3932. | N/11945. | W-APRSSIG |
| LOVELOCK | 301440 | @301440/4010. | N/11828. | W-APRSSIG |
| WINNEMUCA | 301440 | @301440/4058. | N/11743. | W-APRSSIG |
| ELKO | 301440 | @301440/4049. | N/11545. | W-APRSSIG |
| SALT LAKE | 301440 | @301440/4032. | N/11153. | W-APRSSIG |
| PROVO | 301440 | @301440/4013. | N/11139. | W-APRSSIG |
| HELPER | 301440 | @301440/3941. | N/11051. | W-APRSSIG |
| THOMPSON | 301440 | @301440/3858. | N/10943. | W-APRSSIG |
| GRANDJUNC | 301440 | @301440/3904. | N/10833. | W-APRSSIG |
| GLENWOOD | 301440 | @301440/3932. | N/10719. | W-APRSSIG |
| GRANBY | 301440 | @301440/4004. | N/10556. | W-APRSSIG |
| WINTERPK | 301440 | @301440/4004. | N/10602. | W-APRSSIG |
| DENVER | 301440 | @301440/3944. | N/10459. | W-APRSSIG |
| FTMORGAN | 301440 | @301440/4015. | N/10348. | W-APRSSIG |
| MCCOOK | 301440 | @301440/4012. | N/10037. | W-APRSSIG |
| HOLDREGE | 301440 | @301440/4026. | N/ 9922. | W-APRSSIG |
| HASTINGS | 301440 | @301440/4035. | N/ 9823. | W-APRSSIG |
| LINCOLN | 301440 | @301440/4049. | N/ 9641. | W-APRSSIG |
| OHAMA | 301440 | @301440/4116. | N/ 9600. | W-APRSSIG |
| CRESTON | 301440 | @301440/4103. | N/ 9421. | W-APRSSIG |
| OSCEOLA | 301440 | @301440/4102. | N/ 9346. | W-APRSSIG |
| OTTUMWA | 301440 | @301440/4101. | N/ 9224. | W-APRSSIG |
| MTPLEASNT | 301440 | @301440/4057. | N/ 9133. | W-APRSSIG |
| BURLINGTN | 301440 | @301440/4048. | N/ 9113. | W-APRSSIG |
| GALESBURG | 301440 | @301440/4056. | N/ 9022. | W-APRSSIG |
| PRINCETON | 301440 | @301440/4122. | N/ 8928. | W-APRSSIG |
| NAPERVILL | 301440 | @301440/4146. | N/ 8807. | W-APRSSIG |
| CHICAGO | 301440 | @301440/4152. | N/ 8737. | W-APRSSIG |
| HAMMOND | 301440 | @301440/3947. | N/ 8835. | W-APRSSIG |
| SOUTHBEND | 301440 | @301440/4140. | N/ 8615. | W-APRSSIG |
| ELKHART | 301440 | @301440/4147. | N/ 8600. | W-APRSSIG |
| BRYAN | 301440 | @301440/4128. | N/ 8433. | W-APRSSIG |
| TOLEDO | 301440 | @301440/4135. | N/ 8331. | W-APRSSIG |
| SANDUSKY | 301440 | @301440/4126. | N/ 8242. | W-APRSSIG |
| ELYRIA | 301440 | @301440/4121. | N/ 8206. | W-APRSSIG |
| CLEVELAND | 301440 | @301440/4129. | N/ 8141. | W-APRSSIG |
| ERIE | 301440 | @301440/4206. | N/ 8004. | W-APRSSIG |
| BUFFALO | 301440 | @301440/4253. | N/ 7852. | W-APRSSIG |
| ROCHESTER | 301440 | @301440/4309. | N/ 7736. | W-APRSSIG |

204. 100K maps

From: ke4eer@ro.com (William Nolle)
Date: Thu, 07 Dec 1995 11:59:44
To: aprssig@tapr.org
Message-ID: <199512071906.NAA10741@sh1.ro.com>
Rendered body type: text/plain

Here is another couple of mapmaking tidbits to think of. When testing between the two program (MKMAPHK1 & MKMAPKKE) i have found that for some reason the original MKMAPHK1 will allow a one mile map where MKMAPKKE will not!. Now before jumping on me this test was using the same data files, same size,same everything. Today i had an occasion where i needed a 1 mile +1 map i couldn't make it at all using MKMAPKKE.... I also found the following Bug, DON'T SCRUNC if you don't have to. I was wondering why i was getting so many streets with 45 degree points, so i did two maps 1 with scrunching at bot 1.1 and 1.2 and that map had many 45 degree streets that where not there in the unscrunched map, so when making a 1 mile map and when done the map looks like a mess, just rename the MAP.DAT to your map name and if under 3000 point's leave it alone or it WILL get screwed up. Hope this helps the mapmakers a little.

Bill KE4EER
ke4eer@ro.com

205. More PK-900 problems

From: ah586@detroit.freenet.org (Steve Sable)
Date: Thu, 7 Dec 1995 14:06:36 -0500
To: aprssig@tapr.org
Message-ID: <199512071906.0AA01838@detroit.freenet.org>
Rendered body type: text/plain

Now have ver 7.4c with my PK-900. I see that a new option has appeared when setting up asking if I have a dual port to which I answered yes. Now in the status bar if I had selected from the ON-SCREEN,CONTROL,BANDS, 2PORT there appear's a "2*VHF" of "2*HF". How does one switch bands? Do you goto command mode and set it or can you do it from the APRS prog itself? With ver 74c I cant seem to alter the initaea.tnc file at all. If I change a param the entire sequence wont load into the tnc. It seems from earlier they would at least flash on the screen that they were going into the TNC, but if I went to the command mode, none of them were set. Even if I do a ALT-S none of initaea.tnc parms goto the tnc. What am I doing wrong? If I goto command mode I can enter them in with no problem but there is quite a few params I want set and this sure takes time.

--
 _ _ | _ _ | _ _ \ \ \ / _ | ah586@detroit.freenet.org
 \ _ \ _ | _ | \ \ \ / _ | N8NYU
 _ _ | _ _ | \ \ \ / _ | Maybee, Michigan

206. Re: [APRSSIG:4986] Re: 144.390????

From: "Demos Doulou" <ddoulou@tesla.netline.net>
Date: Thu, 7 Dec 1995 14:35:07 +0005
To: aprssig@tapr.org
Message-ID: <199512071934.0AA27486@tesla.netline.net>
Rendered body type: text/plain

>d d>
> p.s. I can't believe the whining that goes on about spending \$24 on a set of
> crystals. A change in frequency for a digi is almost no effort, other than
> changing the crystals. You don't have to retune duplexors or even realign the
> radio. That's not even the cost of a case of beer here in Canada!
> (that's 24 bottles)
>
>
>
> Mike Walker mwalker@interlog.com
> 127 High St. W. rf: va3mw@va3bbs
> Mississauga, ON
> L5H 1K4
>
>
>

Not true. I would have to tune a cavity filter on my digi. Got to have one or the imod kills it. Ok so it takes only five minutes to tune it. Now reprogramming the eprom is the most work for me. I have to dismantle the digi and take the radio to our local sheriff department. But I'm not complaining. Ill move if we have to.

73 Demos KR4US

207. Re: [APRSSIG:4987] RE: APRS Symbols

From: "Demos Doulou" <ddoulou@tesla.netline.net>
Date: Thu, 7 Dec 1995 14:41:08 +0005
To: aprssig@tapr.org
Message-ID: <199512071940.0AA27881@tesla.netline.net>
Rendered body type: text/plain

> Date: Thu, 7 Dec 1995 08:08:34 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: Keith Sproul <ksproul@hardees.rutgers.edu>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4987] RE: APRS Symbols

> > WB2NGZ@AOL.com said:

> > >P.S.: I am still waiting for WB4APR to include an ICBM symbol in APRS that
> > >explodes on impact so that our Daytona Beach "war games" will be more
> > >realistic...He He.
>
> This was ACTUALLY done in the Macintosh version.. I had been asked to do a
> demo for a Military research company, so I put in Tank symbols, Jeep,
> Helicopter, and one or two others, and had the ability to 'nuke' one..
>
> It produced a very nice explosion on the screen, including the sound-effects.
> Then deleted the station..
>
d

I like it!! I want it!!!

There are several stations that I'd like to nuke.

73 Demos KR4US

208. Re: [APRSSIG:4981] Re: HELP with pico w/2nd serial port and

From: Scott Miller <scottm@sierra.net>
Date: Thu, 07 Dec 1995 12:47:25 -0800
To: aprssig@tapr.org
Message-ID: <199512072048.AA21621@diamond.sierra.net>
Rendered body type: text/plain

At 01:06 AM 12/7/95 -0600, you wrote:
>At 01:28 AM 95-12-6 -0600, you wrote:
>>Hi everybody, I'm new to aprs and newer to internet.My problem is when I go
>>mobile I don't see myself on the map.I see everybody else,and they see
>>me,and I see myself being digi'd. I would be very grateful for any sugesstions
>>thank you all 73 Scott
>>
>>
>When using a pico with the second serial port the is a TNC command that has
>to be used, its ELO on.
>ELO on caused the GPS data to stream onto the serial port 1 of the TNC which
>is connected to your computer running APRS. This eliminates the need for the
>hardware single port cable, and is quite effective.
>
>Pertinet commands
>LOC EVERY 3 number*10 seconds
>GPSTEXT \$GPRMC Your \$GP??? NMEA Data type
>ELO Echo's GPS NMEA data to serial
>port 1 from 2
>
>For a standalone tracker you would also do GPS on
>
>Hope that helps
>barrettd
>
>
Thanks very much for suggestion.
I don't find a ELO command on my Pico.

73 Scott

209. Re: [APRSSIG:4991] 100K maps

From: "Thomas H. Busch" <TOMB@avoca.nwscc.sea06.navy.mil>
Date: Thu, 7 Dec 1995 16:14:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <1A0CF282EEE@avoca.nwscc.sea06.navy.mil>
Rendered body type: text/plain

> I was wondering why i was getting so many streets with 45 degree
> points

I'm convinced USGS data does not have enough points at the 1 mile
level for the mapfix or mkmapxxx join/scrunch algorithms to work.

210. Re: [APRSSIG:4986] Re: 144.390????

From: rwf <rwf@mindspring.com>
Date: Thu, 7 Dec 1995 16:22:24 -0500
To: aprssig@tapr.org
Message-ID: <199512072122.QAA23655@borg.mindspring.com>
Rendered body type: text/plain

This isn't a flame- just an attempt to properly enlighten users about the complexity of remotely located digipeaters at shared commercial (read: "good") sites.

Somebody wrote:

>
>p.s. I can't believe the whining that goes on about spending \$24 on a set of
>crystals. A change in frequency for a digi is almost no effort, other than
>changing the crystals. You don't have to retune duplexors or even realign the
>radio. That's not even the cost of a case of beer here in Canada!
>(that's 24 bottles)
>

Excuse me, I have tried to stay quiet on the subject of this frequency change.
And I'm not discussing the idea of the frequency change, either- only the suggestion that it is almost no effort to change something about a digipeater. But now I can't stand it any more, especially when someone says things that potentially can give folks the wrong idea.

Most of the time, owners attempt to place Repeaters, links, and even packet (APRS) digipeaters at the highest site possible. Something about this seems to make them cover further and for some reason users like that. Especially mobile users. Since there are not that many Hams who can develop a high site out of their own pocket change, we must rely on space provided by Commercial sites. Any time a transmitter is installed, especially at any commercial site or site shared with others, good practice dictates that at least a bandpass cavity be used.

This is to protect other users from possible spurious emissions, to protect against other signals from getting to your transmitter to mix and be retransmitted, and last but not least: to protect your receiver from desense as a result of other transmitters nearby. Tuned cavities need to be tuned (and retuned when their operating frequency is changed)

If a site owner does not require this on *all* transmitters at his site, he is doing all of his users a disservice. Many times, an RF isolator is specified and is a great idea as well!

Sure the crystals are not a major expense, even for properly aged ones that will stay on or near the correct frequency.

But in the case of a well-located digi, or someone with several digis, the other costs can mount up!

For example, in our area (Georgia/Alabama/TN) we have a nice APRS network of at least 11 digis that I can count off the top of my head.

Several are at fairly easy locations to service. Some are not. The new one we just added this weekend is over 120 miles from my house, at the top of a very curvy and dangerous 8 mile long road up a 4800 foot hill. It is not even possible to visit it in the winter due to road conditions (no snowmobiles here in GA, yet) To drive there and turn around and drive back is 7-8 hours for me.

I prefer crystal control for fixed site radios, too many things to go wrong on a synthesized unit, and an Azden/Alinco/Kenwood/Yaesu or any other ham rig has no place at a hostile site. Crystal controlled radios usually work better when they are tuned to the operating frequency. That's why alignment instructions are published in the service manuals.

I guess you could run up, change the crystals and hope the radio operated correctly on the new frequency and hope that the duplexer was tuned close enough to do its job and not damage your transmitter with high reflected power. I've even netted crystals 5 KHz in an emergency, but this has already been discussed. I wouldn't do it. I'd just as soon connect to it and turn off digipeat, before I jury-rigged something like that. (and

thanks to the remote sysop commands on the TNC, I can do that)

Luckily, I have an IFR (service monitor). I'm not in the 2-way business but do have 12 voice repeaters, 1 ATV repeater, and 3 digipeaters. I ran across a good deal at an IRS sale. I have to *borrow* or *rent* a spectrum analyzer to properly tune the cavities.

So... let's go change the frequency of N4NEQ-3

All prices in US \$\$\$\$\$\$

```
$ 75.00    Drive from Atlanta GA to Andrews, NC and back: 125 miles x 2
ways x .30 per mile
$450.00    Cost of my lost time to drive both ways and spend an hour at the
site (@ 50.00/hr)
$ 20.00    Cost of crystals from Bomar, 3 wk slow boat delivery.
$ ??????   Kissing up to guy with spectrum analyzer so we can get the cavity
"dead-on".
$ 12.00     2 meals
$ 3.00      Refreshments      (Always Coca-Cola)
-----
$560.00     For 1 Digi  !!!!
```

vs

```
$ 20.00     1 case of imported, canadian beer
```

I didn't even enter anything for the potential family problems that this little jaunt will create.

Come on down to the frequency changing party, You drive up, change the frequency, realign the radio and retune the cavity, and I'll buy the beer and have it waiting for you when you get back..

The other digis may not be as much trouble, but each one will have its own unique situation.
Some folks may have to have a radio shop retune their radio- they may not have an IFR and they will certainly want to operate within specs.

Folks- changing things about remotely located radio equipment is never easy OR cheap.

Right, Mr. Bob APR (how far was it again to that Wide-Relay you have? 3 hours each way or so?)

Ralph
N4NEQ

211. Re: [APRSSIG:4991] 100K maps

```
From: rwf <rwf@mindspring.com>
Date: Thu, 7 Dec 1995 16:30:45 -0500
To: aprssig@tapr.org
Message-ID: <199512072130.QAA25847@borg.mindspring.com>
Rendered body type: text/plain
```

At 12:14 PM 12/7/95 -0600, you wrote:

```
>so when
>making a 1 mile map and when done the map looks like a mess, just rename
>the MAP.DAT to your map name and if under 3000 point's leave it alone or
>it WILL get screwed up. Hope this helps the mapmakers a little.
>
```

I've had good luck renaming the "temp" file as the map file too, except on really large detailed maps.

212. Re: [APRSSIG:4994] RE: APRS Symbols

```
From: rwf <rwf@mindspring.com>
Date: Thu, 7 Dec 1995 16:30:47 -0500
```


To: aprssig@tapr.org
Message-ID: <199512072130.QAA25857@borg.mindspring.com>
Rendered body type: text/plain

At 02:02 PM 12/7/95 -0600, the Sproul-Meister wrote:

>>
>> This was ACTUALLY done in the Macintosh version.. I had been asked to do a
>> demo for a Military research company, so I put in Tank symbols, Jeep,
>> Helicopter, and one or two others, and had the ability to 'nuke' one..
>>
>> It produced a very nice explosion on the screen, including the sound-effects.
>> Then deleted the station..

PLEASE don't give it to Uncle Bill, EER!! :)

213. MacAPRS help and txt files

From: Scott Miller <scottm@sierra.net>
Date: Thu, 07 Dec 1995 13:32:43 -0800
To: aprssig@tapr.org
Message-ID: <199512072133.AA28124@diamond.sierra.net>
Rendered body type: text/plain

Hi, I still havent been able to open the help or text files for MacAPRS.
Does someone know if I can download them with my PC from somwere
and what they are called?
I'm new to this.Much thanks 73 Scott in Tahoe City Ca.

214. Re: [APRSSIG:4938] Re: GPS simultaneous parallel tracking

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 7 Dec 1995 15:38:10 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512072138.PAA23745@solar.cs.tamu.edu>
Rendered body type: text/plain

Terry Taylor sez:

>
> As one who flies the larger birds, here's my 2 pennies on the
> discussion about GPS instrument approaches.
>
> To my knowledge, the GPS aviation instrument approach is still
> published as just a non-precision approach. That means there is only
> lateral navigational capability, with no vertical capability at all.
> The pilot makes descents to published lower altitudes (to clear obstacles)
> as the aircraft approaches the airport. The system would need to be
> accurate enough to meet the TERPS (standard for defining clearance from
> known obstacles) criteria for a non-precision approach, of which the VOR,
> NDB, BC Localizer, TACAN, all meet these requirements.

Some work has been done with CAT-II and CAT-IIIa ILS using GPS with
differential correction and pseudolite PRNs in Denver. Stanford is doing a
lot of the work.

> To my knowledge, no commercial airline is using GPS for point to
> point navigation, nor instrument approaches. This is probably more due to
> cost, than technical capability. Someday, I expect the GPS will replace
> the VOR and TACAN navigation system.

It may be ended now, but Alaska Air, and Continental were doing GPS
approaches at several major airports, and Continental Express was routinely
using it at Denver as an experiment.

Once the FAA WAAS is in place real time updates with high precision
positioning will start to become routine. I do *NOT* expect the \$300 GPS
receivers, however, to ever be in this game. I fully expect the receivers
used for this will be code-correlated L1/L2 receivers with carrier phase (for
the technically inclined).

I'm hoping to start a project using APRS and airborne GPS in the Flying Club
airplanes here as a poor-man's radar for the local tower... as a demonstration
only. Just playing with the idea, though, rather than looking at it as a
"real" venture. (no local radar feed, and we're below the horizon for ZHOU's
nearest site)

73, gerry

--

Gerry Creager N5JXS

* SAREX Co-Investigator

[illegible]

215. Re: [APRSSIG:4944] Re: EUROMIR + SAFEX FREQUENCY CLARIFICATION

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 7 Dec 1995 15:52:36 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512072152.PAA24246@solar.cs.tamu.edu>
Rendered body type: text/plain

Demos Doulou sez:

> Good point, and we all need to be thinking of putting new services
> on UHF and above. It is kind of dumb to be trying to put more
> and more digital modes on 2 meters where there is very little room
> left for anything.

Note, however, that there are areas of the country where we'd need to move above 450 MHz, too. Channels for analog and digital are filling in most of Texas!

```
> We have run out of good repeater pairs here in Pinellas, and
> repeaters are showing up where they should not be, like there is a
> repeater on 145.820 here in Florida, which should make the satellite
> people very unhappy.
```

Not to mention being illegal!

- > But 2 meters is not effected by the environment as much as UHF and
- > above making it better for mobile ground communications, or for
- > tracking mobiles, where UHF and the microwave bands seem to be better
- > for space comms.

I guess you're not completely conversant with doppler shift, which markedly increases w/ frequency increases. Microwave is used to geostationary satellites (TDRSS) because they do not move much relative to the earth, and therefore the doppler shift is limited. The Shuttle, Mir, and SS Alpha will move at 17,000 MHP, for a round number, in relation to Earth's surface. That makes for reasonably high numbers.

73, gerry--

Gerry Creager N5JXS
gerry@cs.tamu.edu

- * SAREX Co-Investigator
- * A little radio that lets kids talk
- * to astronauts, and smile

216. Re: [APRSSIG:4949] Re: 144.390????

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 7 Dec 1995 16:02:47 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512072202.QAA24473@solar.cs.tamu.edu>
Rendered body type: text/plain

Young, Gregory sez:

```
> I need hardly point out that the freqs arbitrarily picked for shuttle
> communication, used at the time when the ONLY freqs available for packet,
> 144.91 to 145.09Mhz created some problems (and still do). Fortunately there
> are no other packet subbands.
```

Actually, we did not arbitrarily pick the frequencies originally. When they were selected, packet did not exist. When STS-35 flew SAREX-II, post-Challenger, we had some apprehension about using those channels, BUT, since they were not yet assigned/coordinated to packet in most areas, and, because of the infrequent and transient nature of Shuttle passes, we decided to not go thru the gymnastics of getting frequencies changed at that point. Matter of fact, by the time it became a real issue, there was no way we could have changed frequencies before STS-35. After STS-37, some significant, if somewhat misguided, work went into changing a number of the channels. Long discussion occurred about the uplink channels. Since the vast majority of the interference was TO SAREX, we decided to leave the uplinks well enough alone. And, for the record, 144.95 was selected because it's 600 khz down, allowing folks with older radios, still a reality in 1986, the opportunity to talk to 'em. Time permitting...

- > It's time for ALL to sit down and try to coordinate things a bit! The
- > growth of digital has far exceeded the demand for repeaters, manyfold. Look
- > at the spectrum allotted for those devices.. take a listen to the activity on

> those, or should I say lack of activity..

Depends on where you are, regards activity (or perceived activity). And you're completely correct. It's time to get the groups together. A group representing the US's coordinators has been holding regular discussions already, and are well aware of this issue.

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

217. Re: [APRSSIG:4951] 145.80 vs 145.79 SOLVED!

From: Sean Smithers <seans@magick.net>
Date: Thu, 7 Dec 1995 14:37:50 -48000
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512071401.A31602-0100000@gp.magick.net>
Rendered body type: text/plain

Pretty cool solution!

=====

Sean Smithers
Internet: seans@gp.magick.net
CompuServe: 70132,136
Packet: N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM

On Wed, 6 Dec 1995, Bob Bruninga wrote:

> On Wed, 6 Dec 1995, Fred Quarles suggested adding Spacecraft tracking
> to APRS (since it is already in APRtrak) and have APRS go to a MINIMIZE
> mode during a pass. This idea is the basis for a PERMANENT SOLUTION!
>
>
> Remember, it wont take many COMMAND stations. One station in Maryland
> could execute MINIMIZE via the existing network and affect APRS stations
> out 250 miles via the network.
>
> AND adding the Packet burst (with GPS posit in it) is not a burden to the
> SAREX or SPACE STATION, but an actual ADVANTAGE! It can serve as an
> alerting beacon that the SPACE STATION is in range and shows the schools
> where the STATION is...
>
>

218. Re: [APRSSIG:4965] Re: 144.390????

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 7 Dec 1995 16:55:31 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512072255.QAA25847@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Bruninga sez:

>
> On Wed, 6 Dec 1995, Young, Gregory wrote:
>
> > It's time for ALL to sit down and try to coordinate things a bit! The
> > growth of digital has far exceeded the demand for repeaters, manyfold. Look
> > at the spectrum allotted for those devices.. take a listen to the activity on
> > those, or should I say lack of activity..
>
> APR REPLY: And all of those voice repeaters could be used simultaneously
> for full duplex long distance 9600 baud data links. 70 channels on 2
> meters too. It can be done, is simple, and does NOT impact current voice
> users. See my 70chnls.2m README FILE...

It cannot be simply done, and it does impact voice operations. And packet operations.

A number of the voice repeaters out there are not true-FM. While this may seem insignificant, it is pretty important to those of us who've experimented with 9600 baud packet. Further, trying to move digital signals through a system where others are involved, say, at a busy repeater site, may lose you friends and influence enemies. If the radio's not tuned properly, and your digital signal starts generating hash, you could bring a number of systems, non-hams at that, to a screeching halt.

Further, the users of voice systems will note the hissing and scratching associated with 9600 baud packet as a problem and will militate for "someone" to go fix it.

Finally, you have to find an area where the local repeater guru is A) knowledgeable in how the radio really works, B) knowledgeable in how packet works, C) knowledgeable in how 9600 baud modems work, D) a packet operator himself, and E) interested in melding the two technologies. Most, but admittedly not all, of the repeater gurus I know (that I'll readily admit know how to work on radios without a guide dog) are analog types with little interest in packet at any speed. A couple of them are rabid anti-packet folk. Two are interested in analog repeaters and digital boxes. None are interested in both on one system.

73, gerry N5JXS
n5jxs@tamu.edu

219. Re: [APRSSIG:4996] Re: 100K maps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 7 Dec 1995 17:21:04 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512072321.RAA26568@solar.cs.tamu.edu>
Rendered body type: text/plain

Thomas H. Busch sez:

>
> > I was wondering why i was getting so many streets with 45 degree
> > points
>
> I'm convinced USGS data does not have enough points at the 1 mile
> level for the mapfix or mkmapxxx join/scrunch algorithms to work.

If you're making maps at that level, you should not scrunch 'em or you *will* lose detail, which, after all, is the point of having the maps AT that level.

I just made a number of maps for a demo here at the 2.2 mile scale and did not do a scrunch. Further, I had to abandon MKMAPHK* because it automatically tries to do some minimization I couldn't live with!

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

220. Re: [APRSSIG:4997] Re: 144.390????

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Thu, 7 Dec 1995 16:59:43 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199512072359.QAA12358@usr4.primenet.com>
Rendered body type: text/plain

At 03:29 PM 12/7/95 -0600, rwf wrote:

Lots of stuff deleted for brevity

>Folks- changing things about remotely located radio equipment is never
>easy OR cheap.
>
>Right, Mr. Bob APR (how far was it again to that Wide-Relay you have? 3
>hours each way or so?)
>
>Ralph
>N4NEQ
>

Very well put. It's not a simple matter to change frequencies on mountaintop sites. The last antenna install for the Arizona Repeater Association was a nightmare from start to finish, including the crane ROLLING OVER on it's trip down a fog shrouded Mt. Ord road!

A "simple" lightning arrestor install on a White Tanks node took about 4 hours, including drive time. And that's an urban (more or less) site, here in Phoenix.

Mark Fellhauer
KC7BX5

221. Re: [APRSSIG:4999] RE: APRS Symbols

From: ke4eer@ro.com (William Nolle)
Date: Thu, 07 Dec 1995 19:43:47
To: aprssig@tapr.org
Message-ID: <199512080250.UAA01937@sh1.ro.com>
Rendered body type: text/plain

Hey YES,YES,YES that would be GREAT, then i would be able to take care of those EGO didgis Hi..

Bill KE4EER

>At 02:02 PM 12/7/95 -0600, the Sproul-Meister wrote:
>
>>>
>>> This was ACTUALLY done in the Macintosh version.. I had been asked to do a
>>> demo for a Military research company, so I put in Tank symbols, Jeep,
>>> Helicopter, and one or two others, and had the ability to 'nuke' one..
>>>
>>> It produced a very nice explosion on the screen, including the sound-effects.
>>> Then deleted the station..
>
>
>
>PLEASE don't give it to Uncle Bill, EER!! :)
>

222. Re: [APRSSIG:4985] Re: APRS Information Needed (Answers)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 7 Dec 1995 21:36:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951207213503.872G-100000@greatlakes>
Rendered body type: text/plain

On Thu, 7 Dec 1995, Randy Hammock wrote:

> Though I've not used APRS, based on discussions from this SIG, it seems
> that the user has the arduous task of keeping the digi list updated so as
> to achieve best coverage; however, if one is willing to accept whatever
> coverage RELAY,WIDE,WIDE gives, then it is fairly simple.
>

Keeping track of the DIGIS is simple. LOOK AT THE MAP. All the DIGIS show up as BIG GREEN STARS. If you are in range of one, then you WILL be seen.

223. Re: [APRSSIG:4996] Re: 100K maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 7 Dec 1995 21:54:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951207215402.1100D-100000@greatlakes>
Rendered body type: text/plain

On Thu, 7 Dec 1995, Thomas H. Busch wrote:

> > I was wondering why i was getting so many streets with 45 degree
> > points
>
> I'm convinced USGS data does not have enough points at the 1 mile
> level for the mapfix or mkmapxxx join/scrunch algorithms to work.

APR REPLY: I agree. Certainly NEVER use SCRUNCH above 1.2

224. Re: EUROMIR + SAFEX FREQUENCY CLARIFICATION

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Thu, 07 Dec 1995 20:58:23 -0600
To: aprssig@tapr.org
Message-ID: <9512072058.AA23737@oscar.tbr.state.tn.us>
Rendered body type: text/plain

> Demos Doulou sez:
> >
> > Good point, and we all need to be thinking of putting new services
> > on UHF and above. It is kind of dumb to be trying to put more and

> > more digital modes on 2 meters were there is very little room left
> > for anything.
>
> Note, however, that there are areas of the country where we'd need to
> move above 450 MHz, too. Channels for analog and digital are filling
> in most of Texas!
>
> > We have run out of good repeater pairs here in Pinellas, and
> > repeaters are showing up where they should not be, like there is
> > a repeater on 145.820 here in Florida, which should make the
> > satellite people very unhappy.
>
> Not to mention being illegal!
>
>
> 73, gerry--

Anybody considered the 220MHz band for APRS. 223.58MHz comes to mind. Almost no activity in this area on 220. It would seem that the MFJ data radio would be relatively easy to modify the design to work at 220. I could be wrong and there may be other issues that I have not considered. I know that the lack of commercial radios in this band makes it somewhat unpopular for some people's use. Also for some digi owners (like me) new radios would be required along with other equipment. While I am not necessarily advocating this I think it is worth thinking about and possibly discussing.

73 de KQ4TV

225. Re: [APRSSIG:5005] Re: 144.390????

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 7 Dec 1995 22:05:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951207215928.1100G-100000@greatlakes>
Rendered body type: text/plain

On Thu, 7 Dec 1995, Gerald J Creager wrote:

> > APR WROTE: And all of those voice repeaters could be used simultaneously
> > for full duplex long distance 9600 baud data links. 70 channels on 2
> > meters too. It can be done, is simple, and does NOT impact current voice
> > users. See my 70chnls.2m README FILE...
>
> It cannot be simply done, and it does impact voice operations. And packet
> operations.

APR REPLY: I agree that it can't be done because of emotional and narrowmindedness, but if you say that it impacts voice users, then I'm not sure you read the article. The impact is 0.1 (one tenth) of a second delay in a voice user's access... In practice, probably 1 second... And if that is done when the repeater has been inactive, then there is no impact. A voice user can KEY up and get the repeater in 1 second... ANYTIME..

Most KERCHUNK filters are at least that long..

There is IMPACT on data users. This will ONLY work for BULK long distance transmission of machine-to-machine traffic. Since VOICE will always have priority, the data may be delayed for minutes or HOURS, But when it goes, it GOES! All VOICE users will NEVER hear the data or the HISS, unless they tune to the INPUT of the repeater...

226. Re: [APRSSIG:4962] APRS Information Needed (Answers)

From: SGranth@aol.com
Date: Thu, 7 Dec 1995 23:06:27 -0500
To: aprssig@tapr.org
Cc: SGranth@aol.com
Message-ID: <951207214217_47779833@emout05.mail.aol.com>
Rendered body type: text/plain

Bob,

Please advise the syntax for getting these files via EMAIL from tapr.org (or whatever server has them)?

Steve Grantham, N5DWU

P.S. Why are you shouting with all caps? Can we have it a bit more readable please?

In a message dated 95-12-06 17:07:34 EST, you write:

>INCLUDED WITH ALL COPIES OF APRS IS A README DIRECTORY.
>LOOK IN THERE FOR THE FOLLOWING FILES:

>APRS.DOC
>OPS.TXT
>UHF-FREQ.TXT
>DIGIS.TXT
>PROTOCOL.TXT
>
>HOPE THIS HELPS...
>

227. 145.820??

From: wmtv.tom.weeden@madison-business.com
Date: Thu, 7 Dec 95 11:06:00 CST
To: APRSSIG@tapr.org
Message-ID: <MAIL.461D6338@madison-business.com>
Rendered body type: text/plain

Demos, KR4US, wrote:

>We have run out of good repeater pairs here in Pinellas, and
>repeaters are showing up where they should not be, like there is a
>repeater on 145.820 here in Florida, which should make the satellite
>people very unhappy.

Huh? A repeater operating on 145.820 is ILLEGAL! Quoting FCC Rules, Part 97.205:

(b) A repeater may receive and retransmit only on the 10 m and shorter wavelength bands except the 28.0-29.5 MHz, 50.0-51.0 MHz, 144.0-144.5 MHz, 145.5-146.0 MHz, 431.0-433.0 MHz and 435.0-438.0 MHz segments."

I'm not an attorney, but I can read the rulebook.

Tom WJ9H/Madison
(Wisconsin: where 145.790 is coordinated to APRS, but
am willing to move for the betterment of humanity)

228. Re: [APRSSIG:4995] Re: HELP with pico w/2nd serial port and

From: barrettd@crpl.cedar-rapids.lib.ia.us
Date: Thu, 07 Dec 1995 23:19:25 -0600
To: aprssig@tapr.org
Message-ID: <199512080518.XAA17737@sys1.tapr.org>
Rendered body type: text/plain

>>

>Thanks very much for suggestion.
>I don't find a ELO command on my Pico.

>

> 73 Scott

>

>

It's not in the regular manual but in the addendum sheet that went with the pico. Let me know what your firmware version is and I'll check mine, maybe a firmware upgrade deal. Paccomm will do free eeprom upgrades within a certain period.

barrett

229. Re: [APRSSIG:5001] Re: GPS simultaneous parallel tracking

From: rwf <rwf@mindspring.com>
Date: Fri, 8 Dec 1995 01:14:04 -0500
To: aprssig@tapr.org
Message-ID: <199512080614.BAA22523@borg.mindspring.com>
Rendered body type: text/plain

At 04:05 PM 12/7/95 -0600, you wrote:

>I'm hoping to start a project using APRS and airborne GPS in the Flying Club
>airplanes here as a poor-man's radar for the local tower... as a demonstration
>only. Just playing with the idea, though, rather than looking at it as a
>"real" venture. (no local radar feed, and we're below the horizon for ZHOU's

>nearest site)

But how in the world are you gonna get a COW thru that little tiny door in the side of a Cessna-150

230. Re: [APRSSIG:4991] 100K maps

From: KSwaggart@aol.com
Date: Fri, 8 Dec 1995 02:21:53 -0500
To: aprssig@tapr.org
Message-ID: <951207223755_47840377@emout06.mail.aol.com>
Rendered body type: text/plain

The only difference between MKMAPHK1 and MKMAPKKE, other than the menu with additional features, is that it pickup streams automatically at 2 miles and below. That could account for the difference. Suppose streams should always be a menu choice, too. Probably should keep both programs around for now.

73, Ken, W7KKE
kswaggart@aol.com

231. Ultimeter II packet software

From: "Ronald P. Malinowski, Jr" <weather@xnet.com>
Date: Fri, 8 Dec 1995 01:20:44 -0600 (CST)
To: APRSSIG@tapr.org
Message-ID: <199512080720.BAA27104@flood.xnet.com>
Rendered body type: text/plain

Just writing in regards to a software which was used in conjunction with the APRS network that allowed people to connect to get data like high wind speed and such, it was shareware and I wrote the author on packet but no response, I was looking for the latest version I was interested in getting the latest copy but does anyone know how to or who created this software? It was a blue screen type deal, sent data on a regular basis in APRS format?

Also if Ed Rogers, N9LCI reads this message, could you drop me a line, I am trying to reach you.

Ron

232. (no subject)

From: gwyn@paccomm.com
Date: Fri, 8 Dec 1995 05:31:25 -0600 (CST)
Message-ID: <199512081131.FAA02238@sys1.tapr.org>
Rendered body type: text/plain
[Empty message body]

233. Re: [APRSSIG:5016] Re: GPS simultaneous parallel tracking

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Fri, 8 Dec 1995 08:23:50 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512081423.IAA08969@solar.cs.tamu.edu>
Rendered body type: text/plain

rwf sez:
>

> But how in the world are you gonna get a COW thru that little tiny door in
> the side of a Cessna-150

Oh! You don't. You've got to use at LEAST a 182!

gergy

234. Re: [APRSSIG:4994] RE: APRS Symbols

From: WB4LTF@aol.com
Date: Fri, 8 Dec 1995 10:31:20 -0500
To: aprssig@tapr.org
Message-ID: <951208103119_48219803@mail04.mail.aol.com>
Rendered body type: text/plain

JUST WHAT WE NEED!
Something else for people to play with and clutter up the screens!!!
wb4ltf@aol.com

235. RE: [APRSSIG:4938] Re: GPS simultaneous parallel tracking

From: jaykq4ms@nando.net
Date: Thu, 7 Dec 95 18:55:08 EST
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.951207185951.jaykq4ms@>
Rendered body type: text/plain

Hi Terry, Name here is Jay, located in Raleigh, NC. What airline do you work for, if any?? I'm a aircraft mechanic for USAir here in Raleigh and I heard a rumor that USAir had a STC to install GPS in our DC-9 series. Mind you, this is only a rumor and I heard it about a year ago so I don't know the status as of now. I keep forgetting to call our avionics dept to check on it. If you hear of anything, let me know.

73 es CUL
Jay Netterville KQ4MS
Raleigh, NC
jaykq4ms@nando.net
jaykq4ms@aol.com
APRS 35.49.42N/078.35.37W

E-mail: jaykq4ms
Date: 09/24/95
Time: 02:25:03

This message was sent by Chameleon

236. Re: [APRSSIG:5016] Re: GPS simultaneous parallel tracking

From: dwetzel@acs.uswest.com
Date: Fri, 8 Dec 1995 08:45:38 -0600
To: aprssig@tapr.org
Message-ID: <0c853990@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Maybe a new conformal cow-pod.....?

;-)

Subject: [APRSSIG:5016] Re: GPS simultaneous parallel tracking
From: aprssig@tapr.org at Internet-Mail
Date: 12/8/95 0:18

At 04:05 PM 12/7/95 -0600, you wrote:

>I'm hoping to start a project using APRS and airborne GPS in the Flying Club
>airplanes here as a poor-man's radar for the local tower... as a demonstration
>only. Just playing with the idea, though, rather than looking at it as a
>"real" venture. (no local radar feed, and we're below the horizon for ZHOU's
>nearest site)

But how in the world are you gonna get a COW thru that little tiny door in
the side of a Cessna-150

237. 145.790

From: Pat Bunsold <pbunsol@cati.csufresno.edu>
Date: Fri, 8 Dec 1995 09:12:39 -0800
To: aprssig@tapr.org
Message-ID: <199512081712.JAA07120@CATI.CSUFresno.EDU>
Rendered body type: text/plain

Might as well throw my comments in on this ongoing debate! Which is more logical? Have thousands of hams all over the world QSY, buying new crystals, retuning cavities, etc.. OR having the Shuttle QSY 5Khz. I just ordered a new MFJ xtal rig for 145.790 and have no intention on buying more rocks for it. Also, moving to 145.785 is out of the question in Southern California as a rather cranky Simplex group operates on that freq and they are already outraged about the packet QRM up 5 Khz. So, I say LET THE SHUTTLE QSY and we APRS'rs will STAY ON 145.790!!!!!!

238. Windows 95 (the great beast) and APRS 7.4 Lock-Up

From: alanwc7r@primenet.com (Alan Unangst)
Date: Fri, 08 Dec 1995 10:47:09 -0700
To: aprssig@tapr.org
Message-ID: <199512081747.KAA21252@usr4.primenet.com>
Rendered body type: text/plain

While running APRS 7.4c the other day in the DOZ mode on Win 95 I had a lock-up when I went back to it. Has any one else notice this phenomenon, or was it just a "burp" in Win 95 that happened to correspond at the time I was using APRS 7.4c??

Thanks and 73...Alan, WC7R

239. Re: [APRSSIG:5004] Re: 145.80 vs 145.79 SOLVED!

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 8 Dec 1995 19:02:39 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512081819.A9178-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

The cool solution will become rather hot when any lid with an axe to grind finds that he can shut down the net. I'd suggest more thinking on this one before incorporating remote turn-off features in the software.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Thu, 7 Dec 1995, Sean Smithers wrote:

> Pretty cool solution!
>
> On Wed, 6 Dec 1995, Bob Bruninga wrote:
>
> > On Wed, 6 Dec 1995, Fred Quarles suggested adding Spacecraft tracking
> > to APRS (since it is already in APRtrak) and have APRS go to a MINIMIZE
> > mode during a pass. This idea is the basis for a PERMANENT SOLUTION!

240. Re: [APRSSIG:5026] Re: 145.80 vs 145.79 SOLVED!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 8 Dec 1995 20:15:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951208201402.21535E-100000@greatlakes>
Rendered body type: text/plain

On Fri, 8 Dec 1995, William Manley wrote:

> The cool solution will become rather hot when any lid with an axe to
> grind finds that he can shut down the net. I'd suggest more thinking on
> this one before incorporating remote turn-off features in the software.

NOT TO WORRY: It will be a protected process. And of course I cant discuss the details...

241. GPS KPC-3 TRACKER connect

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 8 Dec 1995 20:23:37 -0600
To: aprssig@tapr.org
Message-ID: <v02130500aceea0dacd8e@[199.1.11.127]>
Rendered body type: text/plain

What are the settings to prevent radio connections to a KPC-3 GPS tracker. ??

The SYSOP remote is protected by a password
but what about the mycall and mycall-1 BBS connections.

If a connection is done to the mycall then raw GPS NMEA data is leaked over the air waves once a sec.

I Think I saw something here and I searched all 5026 APRS SIG messages but I could not find an answer.

Thanks

73.

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

242. Re: [APRSSIG:5024] 145.790

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 9 Dec 1995 08:11:25 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512091411.IAA26839@solar.cs.tamu.edu>
Rendered body type: text/plain

Pat Bunsold sez:

>
> Might as well throw my comments in on this ongoing debate! Which is more logical? Have thousands of
hams all over the world QSY, buying new crystals, retuning
> cavities, etc.. OR having the Shuttle QSY 5Khz. I just ordered a new MFJ
> xtal rig for 145.790 and have no intention on buying more rocks for it. Also,
> moving to 145.785 is out of the question in Southern California as a rather
> cranky Simplex group operates on that freq and they are already outraged about
> the packet QRM up 5 Khz. So, I say LET THE SHUTTLE QSY and we APRS'rs will STAY
> ON 145.790!!!!!!

I'll assume that you missed my missive on just what it takes to "LET THE SHUTTLE QSY" and recap.

1. A series of international agreements, albeit informal.
2. A series of NASA agreements, significantly more formal.
3. A new set of EPROMS for the SAREX talkies.
4. A new set of testing for the SAREX radios for EMI/EMC.
5. Verification of the actual frequencies programmed into each ROM on the bench.
6. Rewriting a bunch of technical documentation for NASA.
7. Rewriting a section in the Crew Procedures for the frequency list.
8. Changing the Console handbook.

It's probably missing a few items... I participated in a lot of these activities. the LAST time we moved SAREX to accommodate folks. The work to add 145.80 to the Shuttle downlink list has taken several years to achieve. The selection of 145.79 was not made as a considered selection in conjunction with a spectrum management or frequency coordination group.

NOW. Let me say something else. THERE SHOULD BE NO PROBLEM. This assumes you will get with someone with real test gear and set your MFJ radio up properly with your TNC. That means a maximum deviation of about 3 khz, which will work. Then, there should be little or no interaction between the two services. AMSAT has already noted some areas where attempting to listen to the AO-13 telemetry beacon on 145.809 was difficult or impossible due to 1200 baud packet activity on 145.79. This suggests that there are folks out there with significantly wider transmissions than either needed, or dictated by good engineering practice.

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

243. Geminids Packet Meteor Scatter Test

From: horzepa@gdc.com (Stan Horzepa)
Date: Sat, 9 Dec 1995 09:14:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <9512091414.AA28149@mailhost.gdc.com>
Rendered body type: text/plain

Just a reminder that the Geminids Packet Meteor Scatter Test is scheduled for December 14, 0000-2400 UTC (see December QST, page 100 for details).

The first test during the August Perseids meteor shower was very interesting with only a limited number of participants. I expect that the December test will be better because the advanced publicity in QST should attract more participants.

Happy trails to you,

Stan, WA1LOU

--
Stan Horzepa ~ phone: 203-758-1811 x7369
Technical Writing Supervisor ~ email: horzepa@gdc.com
General DataComm (MODEMS 'R' US) ~ radio: WA1LOU
P. O. Box 1299 ~ packet radio mail: WA1LOU@N4GAA
Middlebury, CT 06762-1299 ~ TCP/IP packet radio: 44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

---

## 244. APRS covered

From: horzepa@gdc.com (Stan Horzepa)  
Date: Sat, 9 Dec 1995 09:16:01 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <9512091416.AA28230@mailhost.gdc.com>  
Rendered body type: text/plain

I just saw the cover of my new book (Practical Packet Radio) and was very pleased that the publisher (ARRL) chose to design the cover around an APRS screen shot in full color. It looks real sharp!

73,

Stan, WA1LOU

--  
Stan Horzepa ~ phone: 203-758-1811 x7369  
Technical Writing Supervisor ~ email: horzepa@gdc.com  
General DataComm (MODEMS 'R' US) ~ radio: WA1LOU  
P. O. Box 1299 ~ packet radio mail: WA1LOU@N4GAA  
Middlebury, CT 06762-1299 ~ TCP/IP packet radio: 44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

245. Re: [APRSSIG:4951] 145.80 vs 145.79 SOLVED!

From: schiers@ibm.net (hasan schiers)
Date: Fri, 08 Dec 95 23:58:29 EST
To: aprssig@tapr.org
Message-ID: <199512091420.0AA34020@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Wed, 6 Dec 1995 10:17:43 -0600 (CST) you wrote:

>I can put a MINIMIZE function in all APRS software that is capable of
>being commanded to MINIMIZE non-essential APRS packets during a
>pass as follows:

(much deleted)

This looks like an EXCELLENT idea...even addresses the "ain't nobody turning my station off" mentality with an over ride. A very promising proposal and much more cost/resource/effort effective than changing frequencies. An "A" for creativity!

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

246. RE: [APRSSIG:5028] GPS KPC-3 TRACKER connect

From: Larry Griffin <largriff@onramp.net>
Date: Sat, 9 Dec 1995 08:27:00 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAC610.DD300C80@lub08.onramp.net>
Rendered body type: text/plain

I set CMS PBBS to force anyone who connects to MYCALL to end up in the PBBS where I have info about my setup and APRS in general. It also circumvents the problem you mentioned.

From: Robert Winingham[SMTP:kc5ejk@onramp.net]
Sent: Friday, December 08, 1995 2:33 PM
To: aprssig@tapr.org
Subject: [APRSSIG:5028] GPS KPC-3 TRACKER connect

What are the settings to prevent radio connections to a KPC-3 GPS tracker. ??

If a connection is done to the mycall then raw GPS NMEA data is leaked over the air waves once a sec.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Dec 1995 10:08:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951209100506.23009A-100000@greatlakes>
Rendered body type: text/plain

MAPS100K.txt FINAL NOTES ON BUILDING 100K MAPS

The problem is that the 1 mile maps are not even viewable unless you zoom to the 1 mile range and happen to hit the exact center of the map. You have a better chance of getting a map to come up at the .5 mile scale, but only if you are still reasonably near the center of one of these maps. If you are on the border between any two maps, you will NEVER see the maps, because APRS cannot find in the maplist, a map which can completely contain your screen. This is very frustrating to users to have the detail more or less done, but to not be able to access it in a seamless maner. This file describes what I do next to build a seamless map system. There are sort of two approaches, but a mix of the two is probably the best.

BRUTE FORCE: This method takes the existing grid of adjacent 1 mile maps and creates a completely new grid of 1 mile maps whose centers are at the CORNERS of the original grid of maps. The process uses MAPFIX and the alt-IMPORT command to import streets from adjacent maps into each of these new maps. This covers the corners of the original grid, but you still have no overlap at the top and bottom centers of the original grids. This requires yet another grid offset by 1/2 mile up and down. (There is plenty of left/right overlap built into the original maps due to the horizontal aspect ratio used by MKMAPHK.) This process will result in tripling the original number of maps...

In the center of a city or town, this will rarely work because of the density of detail. But you may be able to still join at least two adjacent maps. Although the resulting 2 mile map will have lots of blank space at the edges, this central map may be listed first in the MAPLIST, so that other laps will cover those areas when the user ZOOMS. Whenever you use a map with large blank areas, always be sure that the maps that fill in those areas are listed LATER in the maplist.

temporarily overlay each of the 1 mile maps to look for any gray level main thoroughfares that need to be drawn into the bigger maps. Look for winding roads or long straight ones that locals will recognize. Use the alt-NEW and alt-ADD commands to rapidly draw in these streets. Do not worry about getting EVERY point, just a good approximation of these thoroughfares, since this larger map will only be visible at the larger scale. The exact detail will appear as the user zooms in. Only a few of these thoroughfares are needed to give the user the visual structure of sub-divisions and known landmarks.

All of these methods use either the IMPORT or the OVERLAY feature of MAPFIX. Actually these two commands are really the same routine. The IMPORT brings points INTO the current map under construction, whereas the OVERLAY only draws them on the existing screen so you can SEE the points temporarily. This is so you can add more features to your working map by drawing over selected features in the OVERLAYED map (without having to IMPORT them ALL). Once you have given the file name for either command, you can re-use the same map over and over again with a single keystroke. This is particularly valuable with the Overlay command. To control the points that you want to IMPORT, the WHITE box representing the map CENTER and RANGE is a very powerful tool. The IMPORT function will ONLY import points that will fit INSIDE the white BOX where ever it is. You may move the box edges around anywhere you want with the alt-CENTER and alt-RANGE command.

When building a combined map by IMPORTING adjacent horizontal maps, there will usually be significant horizontal overlap. To avoid the waste of this duplication here is the process I use.

- 1) Load the first map
- 2) ^OVERLAY the next map to see where it is going to fall
- 3) Use alt-C and alt-R to move the white box so that one of its edges makes a clean line just inside the existing map edge
- 4) Now hit alt-IMPORT and the second map comes in just up to the white line with minimal overlap. Now there will only be a few streets that duplicate and they can be removed using the FIND and DELETE commands.

SUMMARY: Once you have finished generating your original 100k map grid, and can see the general density of the streets throughout the city or town, you can use the above techniques to build your maps into a seamless system of maps that in most cases is transparent to the user. This probably takes as long or longer than the original MKMAPHK process, but it is ESSENTIAL for user satisfaction. As an example, I took the 12 maps generated by KE4EER for Hattiesburg and was able to combine them into only 4 maps. A northern and southern 4 mile map, and two middle east and middle west 2 mile maps. This combined with the major street thoroughfares that I overlayed into his original 8 mile map makes a pretty good seamless map system.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

248. Re: [APRSSIG:5031] APRS covered

From: n2czf@gate.net
Date: Sat, 9 Dec 1995 10:26:50 -0500
To: aprssig@tapr.org
Message-ID: <199512091526.KAA45132@tequesta.gate.net>
Rendered body type: text/plain

GREAT! The more publicity the better!

I have seen the recognition level over the past 2-3 years change from "That is just some more shareware program" to "That is a large group of users that track people via packet"!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

249. Mapfix17

From: ke4eer@ro.com (William Nolle)
Date: Sat, 09 Dec 1995 09:50:03
To: aprssig@tapr.org
Message-ID: <199512091656.KAA28762@sh1.ro.com>
Rendered body type: text/plain

I made a map showing only Alabama County's for heavy weather usage. The problem i ran into i found rather strange. All county's 64 are labeled in upper case letters, i now wanted to add the county seat city in Lowercase letters. Everything worked great till the next time i loaded the map in Mapfix17 when i noticed that ALL the city names in lower case had all moved to the exact same coordinates as the uppercase county names. In other words they now are all on top of each other. At first i thought this was due to the 99 label limit but it was raised to 199, so that's not the problem. (At least i think so). Any ideas on this Bob....

Bill KE4EER

250. File attachments on General Sig Postings

From: n2czf@gate.net
Date: Sat, 9 Dec 1995 10:56:13 -0500
To: aprssig@tapr.org
Message-ID: <199512091556.KAA60892@tequesta.gate.net>
Rendered body type: text/plain

Just wanted to throw this on the sig and see who else is having this problem. A few sig members seem to be having a temporary file attached to all of their postings so some strange reason or another. Whenever I try to read the message I get a fatal error and crash my system, now I try to delete any message that has a file attachment without reading it and it still crashes!

If anyone is aware of their system attaching files to messages please try to correct it, I myself cannot just delete the messsage or read it no matter what I do it crashes the system. If you see someone with this problem please advise them, they themselves may not see the attachment and may not be aware of the problem it creates.

Could this be some sort of "virus" seems harmless enough but annoying? Some virus freak could think of it as funny and what a "wonderful" way to annoy someone. Let one person in internet catch it and let everyone that reads their mail need to deal with it!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

251. Geminids Test Announcement

From: horzepa@gdc.com (Stan Horzepa)
Date: Sat, 9 Dec 1995 11:52:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <9512091652.AA07715@mailhost.gdc.com>
Rendered body type: text/plain

Geminids Packet Meteor Scatter Test

Date: December 14, 1995
Time: 0000-2400 UTC
Freq: 50.62 MHz, 145.79 MHz (if available in your area)
Mode: 1200 baud AX.25 packet

Sending Packets

According to the plan, each quadrant of the continent will take turns transmitting for 15-second periods of each minute as follows:

Northeast stations transmit for the first 15-second period of the minute (seconds 0 to 14), Southeast stations transmit for the second 15-second period of each minute (seconds 15 to 29), Southwest stations transmit for the third 15-second period of the minute (seconds 30 to 44), and Northwest stations transmit for the fourth 15-second period of each minute (seconds 45 to 60).

There are two ways to transmit your meteor scatter packets. Use the meteor scatter mode of APRS. This mode allows your computer to automatically send packets and plot received packets on a map.

The second way is to insert your grid square in the T0: address field of your TNC by using the UNPROTO command and then use the Converse Mode to send packets.

If you live in any area that straddles a quadrant, you must plan carefully and coordinate your transmissions with other local participants. Make plans not only to minimize interference to other locals, but to be sure that you are transmitting at a time when your intended target is scheduled to listen.

By the way, only stations running at least 100 watts into a beam antenna should transmit. Anything less is unlikely to propagate packets via meteor scatter and just causes unnecessary QRM.

Receiving Packets

Even if your station is not a powerhouse, you can still participate by monitoring the test. If you are running APRS, each received grid square packet is plotted on a map and entered into the APRS Heard log. If you are not running APRS, I recommend setting the clock in your TNC and enabling the time-stamping function so that each monitored packet displays the date and time of its reception. This makes logging received packets easy and permits unattended monitoring and logging when you are unable to sit in front of your computer.

During the reception period, watch for stations sending packets containing grid squares. If you have a grid square map handy, make a note of the grid squares that are 500 to 1200 miles from your QTH and when you receive a grid square from one of those, you know you have hit pay dirt. If you are running 100 watts or more into a beam antenna, you can try and make a connection with that station, too!

Reporting Packets

After the test, send your reports contain the following information:

Your call sign
Your state/province
Your grid square
Your effective radiated power (if you transmitted during the test)
Call sign of received/connected station
Grid square of received/connected station
Time of reception/connection in UTC and number of received packets
Mileage between your and received/connected station

Send your reports by mail to:

Stan Horzepa, WA1LOU
One Glen Ave.
Wolcott, CT 06716-1442

or electronically to:

horzepa@gdc.com via Internet email
70645,247 via Compuserve
Standlup via America Online

--
Stan Horzepa ~ phone: 203-758-1811 x7369
Technical Writing Supervisor ~ email: horzepa@gdc.com
General DataComm (MODEMS 'R' US) ~ radio: WA1LOU
P. O. Box 1299 ~ packet radio mail: WA1LOU@N4GAA
Middlebury, CT 06762-1299 ~ TCP/IP packet radio: 44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

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## 252. Re: [APRSSIG:5037] File attachments on General Sig Postings

From: jleonard@tbcnet.com (John B. Leonard)  
Date: Sat, 9 Dec 1995 12:16:27 -0600  
To: aprssig@tapr.org  
Message-ID: <199512091816.MAA25385@tbc2.tbcnet.com>  
Rendered body type: text/plain

THANK YOU!!! I thot I was the only one with this problem. Here's what I just got:

-----  
I set CMS PBBS to force anyone who connects to MYCALL to end up in the PBBS where I have info about my setup and APRS in general. It also circumvents the problem you mentioned.

-----  
From: Robert Winingham[SMTP:k5ejk@onramp.net]  
Sent: Friday, December 08, 1995 2:33 PM  
To: aprssig@tapr.org  
Subject: [APRSSIG:5028] GPS KPC-3 TRACKER connect

What are the settings to prevent radio connections to a KPC-3 GPS tracker. ??



The SYSOP remote is protected by a password  
but what about the mycall and mycall-1 BBS connections.

If a connection is done to the mycall then raw GPS NMEA data is leaked  
over the air waves once a sec.

Attachment Converted: C:\EUDORA\APRSSIG5

-----  
>Just wanted to throw this on the sig and see who else is having this problem.  
>A few sig members seem to be having a temporary file attached to all of their  
>postings so some strange reason or another. Whenever I try to read the message  
  
>Could this be some sort of "virus" seems harmless enough but annoying? Some  
>virus freak could think of it as funny and what a "wonderful" way to annoy  
>someone. Let one person in internet catch it and let everyone that reads their  
>mail need to deal with it!

Oh, Lord, I hope not! I was able to view the attachment and it definitely  
wasn't ASCII. Luckily, it came off of my computer. But you make a good point.

>  
>73's De Rich N2CZF  
>n2czf@gate.net  
>Jupiter Farms Florida  
>  
>  
>  
>  
J Barry Leonard HamRadio N9VJQ/EN510W  
Subependymoma 1990  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

---

## 253. Re: [APRSSIG:5029] Re: 145.790

From: jleonard@tbcnet.com (John B. Leonard)  
Date: Sat, 9 Dec 1995 12:16:30 -0600  
To: aprssig@tapr.org  
Message-ID: <199512091816.MAA25387@tbc2.tbcnet.com>  
Rendered body type: text/plain

>Pat Bunsold sez:  
>>  
>> Might as well throw my comments in on this ongoing debate!

Maybe somebody here can answer a question...  
I remembered hearing from somebody who knew more about APRS than I did that  
145.790 was chosen for APRS because it was an EXPERIMENTAL frequency. The  
implication he gave me was that once it catches on, it'll move.

Anyone want to comment on this?

(Hey, guys, don't shoot me! I'm just repeating what I heard! My hide ain't  
as tuff as Bill EER's :- )

Thanks and 73's  
J Barry Leonard HamRadio N9VJQ/EN510W  
Subependymoma 1990  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

---

## 254. KC7KEZ Christmas Party on HF APRS, Dec. 10

From: philkeys@olympus.net (Phil Keys)  
Date: Sat, 9 Dec 1995 10:20:19 -0800  
To: aprssig@tapr.org  
Message-ID: <v01510101acef810100d7@[198.133.237.53]>  
Rendered body type: text/plain

The Jefferson County Amateur Radio Club, KC7KEZ, will be on the air from  
Port Townsend, WA demonstrating HF APRS on 10151.5MHz for its annual  
Christmas party, Sunday Dec. 10.

This will be the first introduction to APRS for most club members except  
for W7LD and KI7QX who have tried HF APRS on and off for the past  
several weeks. I (KJ7ET) was on HF APRS for several weeks three weeks  
ago until I had to return my borrowed HF TNC. At the time I received  
several reports that there had been not much HF APRS activity from the  
Pacific Northwest.

So look for us and let us know if you see (hear?) us.

73  
Phil Keys  
KJ7ET

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue  
Software Consultant - specializing in software safety & SQA  
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

---

## 255. Best Buy?

From: on4avi@port.ve3mch.ampr.org  
Date: Sat, 09 Dec 95 13:00:55 est  
To: aprssig@tapr.org  
Message-ID: <9500@port.ve3mch.ampr.org>  
Rendered body type: text/plain

Hi, name here Herman. I am a newcomer on this stuff..  
in Canada and/or the States, their prices, possibilities and where available?  
Here in Belgium the price is verry HIGH, I hope to take it with me from over  
the ocean 73 de Herman ON4AVI@VE3MCH.ampr.org

---

## 256. Test of new mailer

From: Larry Griffin <largriff@onramp.net>  
Date: Sat, 09 Dec 95 13:29:15 -0500  
To: "aprssig@tapr.org" <aprssig@tapr.org>  
Message-ID: <199512091930.NAA22380@mailhost.onramp.net>  
Rendered body type: text/plain

-- [ From: Larry Griffin \* EMC.Ver #2.5.02 ] --

In effort to avoid unwanted attachments on my messages I'm trying out some  
new mailer programs.

I would like to hear personally (not echoed on APRSSIG) from anyone else who  
is using a mailer with Windows 95.

Larry Griffin <largriff@onramp.net>  
--  
Larry Griffin <largriff@onramp.net>

---

## 257. Met:Scatter

From: ke4eer@RO.COM (William Nolle)  
Date: Sat, 09 Dec 1995 14:08:42  
To: aprssig@tapr.org  
Message-ID: <199512092115.PAA07542@sh1.ro.com>  
Rendered body type: text/plain

I read the Test Announcement posted by Stan and it states that the South  
East transmits for the second 15 seconds of the minute. I just did a test by  
setting up a special APRS for just that and after entering all the info and  
picking SE for the TX sector it transmits the first 15 seconds of the minute.  
Maybe i'm getting older then i think i am and loosing it somewhere Hi.

Bill KE4EER

---

## 258. Re: [APRSSIG:5041] KC7KEZ Christmas Party on HF APRS, Dec. 10

From: ke4eer@RO.COM (William Nolle)  
Date: Sat, 09 Dec 1995 14:03:28  
To: aprssig@tapr.org  
Message-ID: <199512092110.PAA07449@sh1.ro.com>  
Rendered body type: text/plain

That's great if you would just keep it on HF and not beacon all over VHF.  
Boy is this going to get me some flames again Hi. That's ok i can take it guys.

>The Jefferson County Amateur Radio Club, KC7KEZ, will be on the air from  
>Port Townsend, WA demonstrating HF APRS on 10151.5MHz for its annual  
>Christmas party, Sunday Dec. 10.  
>So look for us and let us know if you see (hear?) us.  
>  
>73  
>Phil Keys  
>KJ7ET  
>  
>philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue  
>Software Consultant - specializing in software safety & SQA

>Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N  
>  
>

---

## 259. Re: [APRSSIG:5040] Re: 145.790

From: ke4eer@RO.COM (William Nolle)  
Date: Sat, 09 Dec 1995 13:59:34  
To: aprssig@tapr.org  
Message-ID: <199512092106.PAA07341@sh1.ro.com>  
Rendered body type: text/plain

Hey man after hanging out here on the Sig for a while every hide will get tuff  
Hi Hi. Pat don't know where you heard that from but i am firmly planted here  
and it would take a bulldozer to even budge my station after what i went trough  
to get this frequency coordinated here in North Alabama. And Pat that person  
doesn't kow more about APRS then you do (In fact a lot less hi).

Bill KE4EER

-----  
>>Pat Bunsold sez:

>I remembered hearing from somebody who knew more about APRS than I did that  
>145.790 was chosen for APRS because it was an EXPERIMENTAL frequency. The  
>implication he gave me was that once it catches on, it'll move.  
>  
>Anyone want to comment on this?  
>  
>(Hey, guys, don't shoot me! I'm just repeating what I heard! My hide ain't  
>as tuff as Bill EER's :- )  
>  
>Thanks and 73's  
>J Barry Leonard HamRadio N9VJQ/EN510W  
>Subependymoma 1990  
>DeKalb IL  
>E-MAIL: jleonard@tbcnet.com  
>  
>

---

## 260. Re: [APRSSIG:5044] Met:Scatter

From: horzepa@gdc.com (Stan Horzepa)  
Date: Sat, 9 Dec 1995 22:55:35 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <9512100355.AA17380@mailhost.gdc.com>  
Rendered body type: text/plain

>  
> I read the Test Announcement posted by Stan and it states that the South  
> East transmits for the second 15 seconds of the minute. I just did a test by  
> setting up a special APRS for just that and after entering all the info and  
> picking SE for the TX sector it transmits the first 15 seconds of the minute.  
> Maybe i'm getting older then i think i am and loosing it somewhere Hi.  
>  
Hello Bill,

I believe that 96 degrees west is the dividing line between east and west for  
aprs meteor scatter purposes, so depending on which side of that dividing line  
you find yourself in the Lone Star State, you can be in the SE or SW.

73,

Stan, WA1LOU

--

|                                  |   |                      |                    |
|----------------------------------|---|----------------------|--------------------|
| Stan Horzepa                     | ~ | phone:               | 203-758-1811 x7369 |
| Technical Writing Supervisor     | ~ | email:               | horzepa@gdc.com    |
| General DataComm (MODEMS 'R' US) | ~ | radio:               | WA1LOU             |
| P. O. Box 1299                   | ~ | packet radio mail:   | WA1LOU@N4GAA       |
| Middlebury, CT 06762-1299        | ~ | TCP/IP packet radio: | 44.88.4.8          |

~~~~~ What! - Me Worry? ~~~~~

261. RE: APRSSIG:5034 Final 100K steps

From: ke4eer@ro.com (William Nolle)
Date: Sun, 10 Dec 1995 08:21:01
To: aprssig@tapr.org
Message-ID: <199512101528.JAA28477@sh1.ro.com>
Rendered body type: text/plain

I read Bob's Final 100K steps and i don't mind telling you the instructions sounded complicated to me anyway. I read them over and over and attempted to duplicate what Bob did, and i'm sure that most people can understand what it's all about, but i couldn't (Getting old) and things are getting harder and harder to grasp (Boy am i leaving myself wide open for the flame throwers) hi. But what i did do is played around with those maps i did for Hattiesburg,MS and found that if i increased the range setting in the Maplist.ms to 2.1 rather than the 1.1 that when i move the cursor from one map to the next that i am always on a map and never hit a spot that doesn't have one. I moved the cursor like a mobile user would and at the point where one map ends you will find yourself already on the next map due to the horizontal overlap of the maps. Now this doesn't work as good when moving the cursor from North to South, this of course is due to there not being any overlap but i found it still exceptable because you still move from one map into the next without ever being in a blank space. I have not seen Bob's setup yet but doing it this way will not add any additional work. I'm still going to do some more testing with different combonations tough to try to improve the 1 mile map systems. As for finding the map centers i never have to much of a problem with that since when i make a map system for a City or Town i start with a main map in the 8-10 mile range depending on the town size of course, then when my gridwork is drawn i also draw a box around the parameter of the gridwork using the color 7 (L/Gray) so when i zoom in on the town my gray box comes up first showing me where all the 1 mile maps are located. If you have any of the Huntsville,AL maps you can see how that works. I hope this will all help some of you out there that are just getting into making street level maps for your area. And i'm sure there are many many ways to do this other then the way i do it. I have made something like 450 maps now and am still leaning new tricks and shortcuts. So if you find a better way let all of us in on it.

Bill KE4EER
ke4eer@ro.com

262. 145.79 LAST TIME

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 10 Dec 1995 09:29:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951210091510.25277B-100000@greatlakes>
Rendered body type: text/plain

Someone wrote:>

> I remembered hearing from somebody who knew more about APRS than I did that
> 145.790 was chosen for APRS because it was an EXPERIMENTAL frequency. The
> implication he gave me was that once it catches on, it'll move.

APRS began on .79 because it was designated an experimental frequency for new modes and applications in the area. Seemed like the perfect place to experiment.

But the problem with potential interference with the future manned space frequency opf 145.80 has BEEN SOLVED. The next version of APRS and all future versions will have embedded the ability for a properly designated net control operator to command MINIMIZE. This causes all UN-ATTENDED APRS stations to hold off automatic packets for 9 minutes. ATTENDED atations are also minimized, but the operator may override if he is in the middle of emergency or priority traffic. Once the SPACESTATIONS or SAREX begin using APRtrak for transmitting their GPS position in a 0.2 second burst (even on voice passes) then this MINIMIZE function can be automatic. This will result in MINIMIZE being commanded ONLY when the MANNED SPACE frequency is actually in use by the astronauts.

263. Mailer Test

From: Larry Griffin <largriff@onramp.net>
Date: Sun, 10 Dec 1995 09:05:05 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAC6DE.9F42BB60@lub08.onramp.net>
Rendered body type: text/plain

I'm still trying to get rid of the unwanted attachments on my email. Please reply to me whether or not this message has an attachment.

Sorry about the troubles everybody, but I'm not the only Win 95 user with this problem and if I can solve it, it will help us all.

Larry Griffin <largriff@onramp.net>

264. Interesting file

From: ke4eer@ro.com (William Nolle)
Date: Sun, 10 Dec 1995 09:04:28
To: aprssig@tapr.org
Message-ID: <199512101611.KAA29147@sh1.ro.com>
Rendered body type: text/plain

I have just uploaded a executable file named APRS7400.EXE it's a picture of all the activity in the Southeastern area, I found a program name Grabber that allows you to take a screen dump and it turns it into an executable file, you can also make PCX or Gif files out of it. Take a look at our area!. It's a fairly small file.. Boy is it dead on the Sig on sundays....

Bill KE4EER
ke4eer@ro.com

265. Hooking up U-2000

From: "David G. Henderson" <daveh@moose.erie.net>
Date: Sun, 10 Dec 1995 10:44:39 -0500
To: aprssig@tapr.org
Message-ID: <199512101542.KAA21339@moose.erie.net>
Rendered body type: text/plain

Bob or someone who has hooked up the new U-2000 weather computer:

Tom, N3HPR, just got his new U-2000. He also has APRS version 74c installed; he is registered for weather; and has done an Alt-S to validate. But the weather is not being received by APRS--nonsensical info and improper numbers and letters are displayed at top of screen

The WX.TXT file is a little vague.

Which mode on the U-2000 is to be used to supply data to APRS?

Is a different cable required between U-2000 and computer--he is trying to use the cable that came with the U-II?

What baud rate should be used--he is using 4800?

Help, please. TNX

73, Dave, N3EOY

```
*****
* David G. Henderson                daveh@moose.erie.net *
* Amateur Radio: N3EOY              n3eoy@wa3zca.#nwpapa.usa.noam *
*   Emergency Coordinator, Erie County PA SKYWARN *
*   Township Supervisor, Franklin Township, Erie Co., PA *
* Work Phone: 814-734-3521 (7 am-3 pm); Fax: same, voice first *
*   Home Phone: 814-734-4623; Fax: same, voice first *
*           Digital Pager: 814-452-9263 *
*****
```

266. ARN BBS Down ???

From: n2czf@gate.net
Date: Sun, 10 Dec 1995 12:02:09 -0500
To: aprssig@tapr.org
Message-ID: <199512101702.MAA30838@tequesta.gate.net>
Rendered body type: text/plain

Can anyone tell me if the ARN BBS is down or not ? I have been trying to call it all morning and I get no answer. Been months since I last called since I got internet access but I need betab.zip and Bob only uploaded it to ARN. TAPR was having problems at the time so ARN was the only medium to transfer it by.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

267. Re: [APRSSIG:5052] Hooking up U-2000

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Date: Sun, 10 Dec 1995 11:38:48 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512101738.LAA03874@crasher2.ttgciitn.com>
Rendered body type: text/plain

Thus spake David G. Henderson, splattered hither:
> What baud rate should be used--he is using 4800?

2400 seems to be what the U-II uses and APRS expects. Try that :-)

--

268. Re: [APRSSIG:5039] Re: File attachments on General Sig Postings

From: "Mark Farver (KB9JMJ)" <farver@uwplatt.edu>
Date: Sun, 10 Dec 1995 12:41:59 -0600
To: aprssig@tapr.org
Message-ID: <01HYN59Z8UDEIF4MMG@uwplatt.edu>
Rendered body type: text/plain

At 12:33 PM 12/9/95 -0600, you wrote:
>>Just wanted to throw this on the sig and see who else is having this problem.
>>A few sig members seem to be having a temporary file attached to all of their
>>postings so some strange reason or another. Whenever I try to read the message
>
>>Could this be some sort of "virus" seems harmless enough but annoying? Some
>>virus freak could think of it as funny and what a "wonderful" way to annoy
>>someone. Let one person in internet catch it and let everyone that reads
their
>>mail need to deal with it!

I have seen the same attachments on other sigs. Rumor has it that they are caused by Microsoft's Internet Mailer that is included with Win 95. Supposedly it defaults to attaching a write doc to the file. If you using Win95 please check your settings.

Mark
KB9JMJ

269. Mac SE

From: pes@gv.net (Peter Short)
Date: Sun, 10 Dec 1995 11:25:31 -0800
To: aprssig@tapr.org
Message-ID: <199512101925.LAA13514@main.gv.net>
Rendered body type: text/plain

I have a MAC SE I would like to use for APRS, the only thing here is there is no hard drive. My question is can APRS be run from a floppy drive with minimal files like a PC can? And what files are they? There are 2 floppy drives on the machine. I'm not familiar with MACS and need some advice here.
TNX, 73's
Peter.KD6DKD

270. Re: [APRSSIG:5011] Re: EUROMIR + SAFEX FREQUENCY C

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sun, 10 Dec 1995 12:42:57 -0600
To: aprssig@tapr.org
Message-ID: <9512101842.AA23206@omnifest.uwm.edu>
Rendered body type: text/plain

WHOA!!!!

Tennessee must be different from Wisconsin. Check with YOUR Frequency Coordinator (SERA - I think). You'll find that all those frequencies you think are not being used - ARE.

Merry Christmas!

Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr#execpc.com (PREFERRED)

271. Re: [APRSSIG:5041] KC7KEZ Christmas Party on HF APRS, Dec. 10

From: "Mark Farver (KB9JMJ)" <farver@uwplatt.edu>
Date: Sun, 10 Dec 1995 12:46:53 -0600
To: aprssig@tapr.org
Message-ID: <01HYN5G2GWYAI40M8@uwplatt.edu>
Rendered body type: text/plain

At 12:36 PM 12/9/95 -0600, you wrote:
>The Jefferson County Amateur Radio Club, KC7KEZ, will be on the air from
>Port Townsend, WA demonstrating HF APRS on 10151.5MHz for its annual
>Christmas party, Sunday Dec. 10.

I may be a newbie... but isn't 10151.5 _MHz_ X-band microwave, not HF?

272. Re: [APRSSIG:5014] 145.820??

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sun, 10 Dec 1995 12:52:47 -0600
To: aprssig@tapr.org
Message-ID: <9512101852.AA02333@omnifest.uwm.edu>
Rendered body type: text/plain

Tom,

Where did you get the idea that 145.79 is coordinated to APRS? I am the Frequency Coordinitor for the Wisconsin Association of Repeaters - and WE (WAR) have NOT done that. I have NOT been notified that anyone else has coordinated anything in this state.

Merry Christmas!

Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr@execpc.com (PREFERRED)

273. Re: [APRSSIG:5049] 145.79 LAST TIME

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sun, 10 Dec 1995 14:03:56 -0600
To: aprssig@tapr.org
Message-ID: <9512102003.AA26423@omnifest.uwm.edu>
Rendered body type: text/plain

Then, of course, there are the EGO stations who won't upgrade (if they know of the "bug").

I get concerned about "It is for your own good" - I then try to protect my wallet with one hand - and the other hand tries to protect the opposite side of my body....

Dave Barrow, N9UNR
dbarrow@omnifest.uwm.edu

274. Re: [APRSSIG:5037] File attachments on General Sig Postings

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 10 Dec 1995 15:54:35 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512101543.A8073-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

An alert appeared on CIS a few weeks ago warning users to be careful of attachments to unsolicited email messages. It seems that, in some cases, a virus is passed.

It was advised that if the email is from an unknown party then do not read the attachment.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us
<http://ourworld.compuserve.com/homepages/bmanley>

On Sat, 9 Dec 1995 n2czf@gate.net wrote:

> Just wanted to throw this on the sig and see who else is having this problem.
> A few sig members seem to be having a temporary file attached to all of their
> postings so some strange reason or another. Whenever I try to read the message I
> get a fatal error and crash my system, now I try to delete any message that has
> a file attachment without reading it and it still crashes!
>
> If anyone is aware of their system attaching files to messages please try to
> correct it, I myself cannot just delete the messsage or read it no matter what I
> do it crashes the system. If you see someone with this problem please advise
> them, they themselves may not see the attachment and may not be aware of the
> problem it creates.
>
> Could this be some sort of "virus" seems harmless enough but annoying? Some
> virus freak could think of it as funny and what a "wonderful" way to annoy
> someone. Let one person in internet catch it and let everyone that reads their
> mail need to deal with it!
>
> 73's De Rich N2CZF
> n2czf@gate.net

> Jupiter Farms Florida
>
>
>
>

275. RE: Macintosh SE

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Sun, 10 Dec 95 16:01:01 EST
To: aprssig@tapr.org
Cc: pes@gv.net
Message-ID: <CMM-RU.1.4.818629261.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

> I have a MAC SE I would like to use for APRS,the only thing here is there is
> no hard drive.My question is can APRS be run from a floppy drive with
> minamal files like a PC can?And what files are they?There are 2 floppy
> drives on the machine.Im not familiar
> with MACS and need some advice here.

MacAPRS will run on a Mac SE IF, it has 4meg of memory and is running System 7.0 or later..

You DO have to have a hard drive for all of this..

Keith Sproul

| | |
|---|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

276. Re: [APRSSIG:5056] Mac SE

From: zonker@iserver.woodside.k12.ca.us (David K. Z. Harris)
Date: Sun, 10 Dec 1995 13:21:31 -0800
To: aprssig@tapr.org
Message-ID: <v02130500acf0fea9d54f@[192.187.159.44]>
Rendered body type: text/plain

>I have a MAC SE I would like to use for APRS,the only thing here is there is
>no hard drive.My question is can APRS be run from a floppy drive with
>minamal files like a PC can?And what files are they?There are 2 floppy
>drives on the machine.Im not familiar
>with MACS and need some advice here.

The Mac SE has 4 SIMM slots, and they can only use (30-pin) 256K or 1M memory SIMMs. (The best you can have is a 4M Mac SE.)

Because of the processor, I have not been able to get the 2.x versions of MacAPRS running on my SE. However, 1.5.5 runs fine, with one caveat... you need to occasionally clear all the heard stations and messages, or you'll run out of RAM. (I'm using system 7.0.1, with 1.5M for the system, and 2.5M for MacAPRS. I don't load the zipcode, dx, or airport databases.)

I only have a 20MB hard disk....but I don't think you'll be able to do this with just one or two flopy drives. My advice? Get a hard disk. You can even use an external disk, so you won't have to do any 'surgery' if you have 4M of RAM. :-)

regards,

David N6UOW

277. Re: [APRSSIG:5056] Mac SE

From: davidc@tbcnet.com (David Chesser)
Date: Sun, 10 Dec 1995 15:21:19 -0600
To: aprssig@tapr.org
Message-ID: <199512102121.PAA10264@tbc2.tbcnet.com>
Rendered body type: text/plain

You need to running system 7 and at least 4 megs of ram 6 is beter.

278. Re: [APRSSIG:5061] Re: File attachments on General Sig Postings

From: "Larry Griffin" <largriff@Onramp.NET>
Date: Sun, 10 Dec 1995 16:49:20 +0000

To: aprssig@tapr.org
Message-ID: <199512102250.QAA14494@mailhost.onramp.net>
Rendered body type: text/plain

WOAH! I don't *think* you're accusing me of trying to pass viruses, William, at least I'll take it that way. But what started this thread was a "feature" of the Windows 95 Email Exchange program that was causing the unwanted attachments to be added to replies only. Since I wasn't able to figure out how to turn that feature off (and apparently no one else has either) I've quit using Microsoft Exchange and am now using Pegasus Mail.

So now we can get back on topic I hope! (Anxiously awaiting WinAPRS)

On 10 Dec 95 at 15:06, William Manley wrote:

> An alert appeared on CIS a few weeks ago warning users to be careful
> of attachments to unsolicited email messages. It seems that, in
> some cases, a virus is passed.
>
> It was advised that if the email is from an unknown party then do
> not read the attachment.
>
> William Manley
> z002594b@bcfreenet.seflin.lib.fl.us
> http://ourworld.compuserve.com/homepages/bmanley
>
> On Sat, 9 Dec 1995 n2czf@gate.net wrote:
>
> > Just wanted to throw this on the sig and see who else is having
> > this problem. A few sig members seem to be having a temporary file
> > attached to all of their postings so some strange reason or
> > another. Whenever I try to read the message I get a fatal error
> > and crash my system, now I try to delete any message that has a
> > file attachment without reading it and it still crashes!
> >
> > If anyone is aware of their system attaching files to messages
> > please try to correct it, I myself cannot just delete the message
> > or read it no matter what I do it crashes the system. If you see
> > someone with this problem please advise them, they themselves may
> > not see the attachment and may not be aware of the problem it
> > creates.
> >
> > Could this be some sort of "virus" seems harmless enough but
> > annoying? Some virus freak could think of it as funny and what a
> > "wonderful" way to annoy someone. Let one person in internet catch
> > it and let everyone that reads their mail need to deal with it!
> >
> > 73's De Rich N2CZF
> > n2czf@gate.net
> > Jupiter Farms Florida

Larry Griffin <largriff@onramp.net>

279. Re: [APRSSIG:3783] Re: APRS Archives

From: rwf <rwf@mindspring.com>
Date: Sun, 10 Dec 1995 17:58:22 -0500
To: aprssig@tapr.org
Message-ID: <199512102258.RAA26864@borg.mindspring.com>
Rendered body type: text/plain

Keith

Just got done with the Dallas Marathon.
Met Bob Winingham and even tracked him on APRS. He showed me the map you did for the area. DeLorme?
It was nice. We played with MacAPRS at the dinner table in the BBQ place last night as well.

APRS worked well for the marathon, but since I was not as familiar with Mac, we used a the laptop of Claude Head and his APRS version 7.0

We'll be posting the track file soon.

See You later.

Ralph

BTW- I did get a few chances to rag on Bob W about his Mac, though. I wouldn't be me if I didn't :)

280. [APRSSIG:5053] ARN BBS Down ???

From: jeff.wallach@drig.com (Jeff Wallach)
Date: Sun, 10 Dec 95 16:06:00 -0600
To: APRSSIG@tapr.org
Message-ID: <59.46469.99.0C38EB39@drig.com>
Rendered body type: text/plain

Rich,

betab.zip is also on the Dallas Remote Imaging Group FTP site,
at

ftp.drig.com /pub/aprs

or, on the dial-up BBS, at 214-492-7057

73s

jeff n5itu

```
*****
*****+-----+*****
*****|Dallas Remote Imaging Group BBS|*****
*****+-----+*****
*****
*****+-----+****+-----+*****
****|Satellite Tracking      |***|Amateur Radio Programs |****
****|Satellite Imagery       |***|RTTY/SSTV/ATV/Satellite|****
****|Digital Image Process   |***|HAMCALL callsign lookup|****
****+-----+****+-----+*****
*****
*****+-----+-----+*****
****| Welcome to the DRIG BBS   Fido 1:124/6509      |****
****| On-Line Immediate Registration thru PLASTIC   |****
****| (At Main Menu, type in PLASTIC for VISA/MC/AMEX) |****
****+-----+-----+*****
*****
*****
```

Dallas Remote Imaging Group BBS (214) 394-7438

USR Dual Standard 28.8K Modems

24 HR. Operations

10 lines

P.O. Box 117088 Carrollton, TX. 75011-7088

FAX (214) 492-7747

For INFORMATION info@drig.com Internet INFO package

sent

sysop@drig.com Internet
1:124/6509 Fidonet

FTP ftp.drig.com (ftp 206.104.84.2)
WWW http://www.drig.com/ (http://206.104.84.2/)

telnet telnet bbs.drig.com (telnet 206.104.84.208)

For Automatic Request of various satellite elements, send email
to:

elements@drig.com (for NASA 2-line elements)
amsatkep@drig.com (AMSAT style explicit listing)
intelsat@drig.com (Intelligence satellites)
weathkep@drig.com (Weather Satellite keps)
shuttle@drig.com (Latest STS Shuttle mission)

keps)

info@drig.com (Info on Dallas Remote Imaging

Group)

281. Re: [APRSSIG:5061] Re: File attachments on General Sig Postings

From: Gerald J Creager <gergy@cs.tamu.edu>
Date: Sun, 10 Dec 1995 18:06:29 -0600 (CST)
To: aprssig@tapr.org

Message-ID: <199512110006.SAA15319@solar.cs.tamu.edu>

Rendered body type: text/plain

William Manley sez:

>

> An alert appeared on CIS a few weeks ago warning users to be careful of
> attachments to unsolicited email messages. It seems that, in some cases,
> a virus is passed.

>

> It was advised that if the email is from an unknown party then do not
> read the attachment.

With the day of attachments, that is now a reality. I've not gotten a CERT message concerning this, however. Sounds like a reprise of the fabled "Good Times Virus" which actually was a fake, and caused its disruption by the bandwidth it wasted.

I suspect most of the folks with the attachments are running Windoze9x. The mailer is hosed. Microsoft is aware of it, and has told folks I work with who tried to get a fix that it would not be a problem if everyone was running Windoze 97. for the record, Eudora doesn't have the problem.

73, gerry

282. APRtrak

From: Bob Bruninga <bruninga@nadn.navy.mil>

Date: Sun, 10 Dec 1995 21:10:02 -0500 (EST)

To: amsat-bb@amsat.org

Cc: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.951210210350.26677A-100000@greatlakes>

Rendered body type: text/plain

If you are going to be using APRtrak for the upcoming SPARTAN payload to be launched 11 January, be sure you get version 0.5. The first release was version 0.4 at the Orlando AMSat conference in October. Its flaw is that it is STUCK in Eastern Daylight Time Zone. It will work by forcing your clock to EDT time zone, but there have been a few other improvements also, that should encourage you to get 0.5.

You can see the version # on the start-up screen and on the F1-Help screen. Version 0.4 will be dated in October, and version 0.5 will be dated in November...

Before 11 Jan, I will put out some helpful hints on operation. In the mean time, play with it. A good practice is to use it to monitor the MIR downlink. Read the various README files until then... Good luck.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

283. Re: [APRSSIG:5052] Hooking up U-2000

From: Bob Bruninga <bruninga@nadn.navy.mil>

Date: Sun, 10 Dec 1995 21:22:31 -0500 (EST)

To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.951210211938.26677C-100000@greatlakes>

Rendered body type: text/plain

On Sun, 10 Dec 1995, David G. Henderson wrote:

> Tom, N3HPR, just got his new U-2000. He also has APRS version 74c
> installed; he is registered for weather; and has done an Alt-S to validate.
> But the weather is not being received by APRS--nonsensical info and improper
> numbers and letters are displayed at top of screen

APR REPLY: He should be at the standard rate of 2400 for all ULTIMETERS. He should use the U-2000 in the mode which outputs continuously if he is dual ported. He should use the packet mode if he is making a REMOTE WX station.

In the U-2000 the output may already be RS-232 and not need the -v pull down resistor like the U-II required... Ill check...

284. GPS45 & KPC-3 Tracker

From: Randy Hammock <hammock@tis.telos.com>

Date: Sun, 10 Dec 1995 23:05:40 -0500 (EST)

To: APRSSIG@tapr.org

Message-ID: <Pine.SOL.3.91.951210224610.22145B-100000@zentropa>

Rendered body type: text/plain

On Friday, I received my Garmin GPS-45. After about 30 minutes of checking manuals and doing a bit of soldering, I had the tracker up and running without any problems. The settings may still need a bit of tweaking but that should not be too much trouble. The KPC-3 was configured to provide power to pin 25 of the DB-25 connector and the GPS-45 power/data cable was wired accordingly (w/.25 amp fuse). Power to the KPC-3 comes in via the usual coaxial power connector. When running mobile, I use the Radio Shack window clip with a 90 degree BNC adapter to mount the antenna outside of the cab of my truck. Still need to do something for a radio for the tracker but my mobile rig will suffice for the time being. Now, all I need to do is get APRS running on my system at home so that I can see the tracks. I have not checked but I believe APRS will run on a 286 with CGA video (never felt the need for the latest golly gee whiz computer).

Let me know if you've seen KC6HUR show up in the Balt-Wash area.

--

| | |
|---------------------------------------|-------------------------|
| Randy Hammock KC6HUR | Randy.Hammock@Telos.com |
| Telos Information Systems - EDOS | hammock@gmd.trw.com |
| 7474 Greenway Center Drive; Suite 400 | Voice: +1 301 507-5904 |
| Greenbelt, Maryland 20770 | FAX: +1 301 507-5892 |

285. HONOLULU MARATHON LESSONS LEARNED

From: DDOBBINS@aol.com
Date: Sun, 10 Dec 1995 23:28:50 -0500
To: aprssig@tapr.org
Message-ID: <951210232806_50482119@emout05.mail.aol.com>
Rendered body type: text/plain

APRS was present at the 23rd running, and the largest ever, Honolulu Marathon on December 10th. Still awaiting the final numbers, but there were an expected 32,000 finishers at this year's race.

Here are my observations:

- 1) We had APRS set up in the "communications" tent, sharing with MARS, Voice Ham, Police, and medical. The medical treatment tent was right next door.
- 2) I used APRSDR program. It worked as advertised. I extracted an area from the Oahu map that covered the race route, then added the purple #13 line segment over the route. I added mile markers and first aid stations for visual reference. I used a laptop/display for me, with external color monitor pointed toward the rest of the gang.
- 3) We had two GPS standalone trackers in operation, for the LEAD MALE and LEAD FEMALE. These were mounted in electric pickup trucks and did not experience/cause any interference. Both trackers used KPC-3 and Trimble GPS units, one had an HTX-202 and the other an MFJ-8621 data radio. Both performed flawlessly. Position reports were sent once each 45 seconds thru a RELAY,WIDE digi, every 2 mins for the WIDE digi, and every 10 mins for the WIDE,GATE,GATE,WIDE digi. We needed to buy cigarette lighter splitters for both vehicles and the "black lights" used to highlight the time clock atop the vehicle also needed to be plugged in.
- 4) On the eve before the race I reprogrammed the calls of both TNCs to LM and LF, then input the actual owner's call in the BTEXT @ 9 mins. I checked operation on my Macintosh at home, and both locked on and tracked. HOWEVER !!!!! on the next morning when I activated APRSDR I could see the position reports across the screen, but APRS WOULD NOT LOG OR TRACK THEM. OUCH !!! My first suspicion was right, the call sign must include a number. I remotely changed the LF TNC to 6LF, and it worked. For some unknown reason (I haven't checked it yet) I could not log on remotely to the LM. Therefore, I input the LM manually and tracked it at 9 kts.
- 5) I input the LHC (Lead Handicapped - wheelchair) at 14 kts, but don't know if that was close enough. Gotta admire that gang. Wow!
- 6) I input the Bikes at 12 kts. I remember seeing the first wheelchairs finish before the bikes. Can't believe that, but that's what I saw.
- 7) I input the lead group of the pack at 6 kts. That worked out just fine.
- 8) There was only a little interest displayed in APRS. None of the race coordinators or officials came over to see the display, but we did respond with position information at least a minute ahead of the voice reports. Our "visibility" issue is one we'll improve on next year.
- 9) The general response to APRS was:
 - What is that? Wow, way cool. (When I heard this I had to look up to

see if Keith Sproul was here)
or
- What is that? Oh, ok

Overall I'm quite satisfied with the APRSDR program. Comments from the field confirmed that as the APRS gang logged on and watched the race from the comfort of their own home. Msgs were minimal, so not a disruption.

What I'd like to see:

- a) A symbol for a runner.
- b) Ability to enter LM or LF or Pack or whatever as the mycall of the TNC, and have APRS process it.

That's about it. I've been an APRS user now for almost 3 years and this was truly the first time I've USED APRS for some benefit. I encourage you APRSers out there to find some civic activity and get involved, like the support to balloon events, DFing, sailing races, etc.

Aloha. Now that the race is over, it's time for the beach. Dave.

286. Hawaii MARATHON OOPS!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Dec 1995 00:25:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951211002038.27299G-100000@greatlakes>
Rendered body type: text/plain

What got Dave "the-morning-of" the marathon and not tracking the callsigns of LM and LF was a GOTCHA.... Sorry...

But in all the error checking that APRS is doing to try to understand all the packets and to reject things that don't look like good packets, I have made the assumption that CALLSIGNS are at least 4 characters long!

But then I backed off from that when I needed my first 3 letter application. SO APRS NEEDS TO SEE AT LEAST A 3 LETTER CALLSIGN ON THE AIR.

Yes you can SEND shorter "names" for OBJECTS, but NOT for on-air calls...

Sorry dave...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

287. Sample 100K map

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Dec 1995 00:40:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951211003220.27384A-100000@greatlakes>
Rendered body type: text/plain

I just posted MSmaps02.zip which is the result of a few hours worth of tweaking the raw 1 mile maps produced by KE4EER using MKMAPHK. I posted a long detailed description of the processes I go through to take the minimum street level detail and then try to put it together into a system of "seamless" maps. A picture is worth 1000 words. If you want to see how I took the 12 original 1 mile maps and combined them into only 4 maps plus added detail to the original 8 mile map, then zoom into these maps of Hattiesburg Mississippi.

I did this in anticipation of a commercial application. If the paying customer comes through, then I would consider these maps to still need another round of effort on my part to build redundant layers of maps going north and south, to provide seamlessness in that direction also...

To see the flavor of what I did, use the MAPS-BORDERS command. You won't see the original 1 mile grid (4 maps horizontally by 3 maps vertically) but you can see the result of my combinations...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

288. Re: [APRSSIG:5061] Re: File attachments on General Sig Postings

From: Greg Jones <wd5ivd@tapr.org>
Date: Mon, 11 Dec 1995 01:12:52 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512110712.BAA22349@sys1.tapr.org>

Rendered body type: text/plain

This rumor goes around from time to time.

Viruses must be run in some manner (executed) in order to bring them to life - so to say. The typical ones are stored as programs although there are other ways to do it. There are a number of sites on the Internet that go into more detail.

Viewing an e-mail, attachment in an e-mail or even saving the attachment shouldn't cause any problems. E-mail and attachments are just data files. They are not run or executed -- they are just saved. What happens though is that someone sends you something as an attachment (program), you save it - then you want to look at it -- you run it. Then you if the program is infected -- you probably have it.

Just receiving mail (data) from someone via your e-mail account, should not infect you with any form of computer viral infection. Especially if the attachment is a text file.

So -- feel safe in using e-mail.

The secret to having safe software is:

1. Run a virus protection/detection from time to time.
2. If you like -- run scanning software on new software or keep it running all the time.
3. Backup your system and make sure you keep at least a set of old backups around in case something goes wrong with a virus. A lot of time people backup over the old data tapes, without saving at least one generation of backups. If you keep a backup and you do get infected -- and you can't eliminate the virus. Just wipe everything and restore.
4. Like any virus -- if you frequent community areas -- you have a good chance of catching a cold from someone else.

Just to put this in perspective, I have never had a problem with a virus (knock on wood). Most people I know don't have problems with virus infestations. Just use common sense and if you download something -- and you don't know the source be sure to check it.

Now go forth and have fun and don't worry -- just take the necessary precautions.

Cheers - Greg

```
>
> An alert appeared on CIS a few weeks ago warning users to be careful of
> attachments to unsolicited email messages. It seems that, in some cases,
> a virus is passed.
>
> It was advised that if the email is from an unknown party then do not
> read the attachment.
>
> William Manley
> z002594b@bcfreenet.seflin.lib.fl.us
> http: //ourworld.compuserve.com/homepages/bmanley
>
> On Sat, 9 Dec 1995 n2czf@gate.net wrote:
>
> > Just wanted to throw this on the sig and see who else is having this problem.
> > A few sig members seem to be having a temporary file attached to all of their
> > postings so some strange reason or another. Whenever I try to read the message I
> > get a fatal error and crash my system, now I try to delete any message that has
> > a file attachment without reading it and it still crashes!
> >
> > If anyone is aware of their system attaching files to messages please try to
> > correct it, I myself cannot just delete the message or read it no matter what I
> > do it crashes the system. If you see someone with this problem please advise
> > them, they themselves may not see the attachment and may not be aware of the
> > problem it creates.
> >
> > Could this be some sort of "virus" seems harmless enough but annoying? Some
> > virus freak could think of it as funny and what a "wonderful" way to annoy
> > someone. Let one person in internet catch it and let everyone that reads their
> > mail need to deal with it!
```

> >
> > 73's De Rich N2CZF
> > n2czf@gate.net
> > Jupiter Farms Florida
> >
> >
> >
> >
> >
>
>

289. Re: Hope you're better!

From: n4byu@nr.infi.net (Roy Smith)
Date: Mon, 11 Dec 1995 08:54:35 -0500
To: aprssig@tapr.org, Michael Walker <mwalker@gold.interlog.com>
Message-ID: <199512111354.IAA11505@moe.infi.net>
Rendered body type: text/plain

You got me. But I have other problems. I think it is old age catching up with me.. C U over coffee..

>
>Lost your online address. If you receive this please respond.
>Hope you have lost that pneumonia along the way too.
>
>73,
>Howard
>
>

290. RE: [APRSSIG:5058] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10

From: Willson Flor <willf@rrgroup.com>
Date: Mon, 11 Dec 1995 09:34:24 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3951211093425AE005C00@rrgroup3>
Rendered body type: text/plain

You wrote:

From: Mark Farver (KB9JMJZ) [SMTP:farver@uwplatt.edu]
Sent: Sunday, December 10, 1995 12:56PM
To: aprssig@tapr.org
Subject: [APRSSIG:5058] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10

. At 12:36 PM 12/9/95 -0600, you wrote:
. >The Jefferson County Amateur Radio Club, KC7KEZ, will be on the air from
. >Port Townsend, WA demonstrating HF APRS on 10151.5MHz for its annual
. >Christmas party, Sunday Dec. 10.
.
. I may be a newbie... but isn't 10151.5 _MHz_ X-band microwave, not HF?
.

I don't know anyone from the KC7KEZ club (although I've been to their home town - in one of the most beautiful areas of the US, IMNSHO) but I'm pretty sure they meant 10151.5 KHz, which is in the 30-meter amateur HF band.

. Mark
. KB9JMJZ

73 de KB9JTT, willf@rrgroup.com
About 7 miles from the Great Lakes, but a little farther from Greatlakes, and farther yet from Port Townsend, Washington.

291. RE: [APRSSIG:5059] Re: 145.820??

From: Willson Flor <willf@rrgroup.com>
Date: Mon, 11 Dec 1995 10:00:37 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3951211100037AF005C00@rrgroup3>
Rendered body type: text/plain

You wrote:

From: David W. Barrow III [SMTP:dbarrow@omnifest.uwm.edu]
Sent: Sunday, December 10, 1995 1:16PM
To: aprssig@tapr.org
Subject: [APRSSIG:5059] Re: 145.820??

. Tom,

.
. Where did you get the idea that 145.79 is coordinated to APRS? I am
. the Frequency Coordinitor for the Wisconsin Association of Repeaters - and
. WE (WAR) have NOT done that. I have NOT been notified that anyone else
. has coordinated anything in this state.

.
. Merry Christmas!

.
. Dave Barrow, N9UNR
. FC-WI WAR-MACC
. n9unr@execpc.com (PREFERRED)

WAR coordinating packet?? WOW!!! That's news to me! I was under the impression that digital modes were coordinated in WI by WAPR (Wisconsin Amateur Packet Radio) via Steve KE9LZ. As far as specific coordinations of 145.79, I know not.

If I am incorrect about this PLEASE inform me - inquiring minds want to know ;-)

Merry Christmas
73 de KB9JTT
New Berlin, Wisconsin

292. Re: [APRSSIG:5070] Re: Hooking up U-2000

From: "David G. Henderson" <daveh@moose.erie.net>
Date: Mon, 11 Dec 1995 11:47:55 -0500
To: aprssig@tapr.org
Message-ID: <199512111646.LAA11752@moose.erie.net>
Rendered body type: text/plain

Bob,

I'm continuing this discussion on the SIG so others who have an occassion to hook up the new U-2000 can benefit:

At 08:29 PM 12/10/95 -0600, you wrote:

>

>On Sun, 10 Dec 1995, David G. Henderson wrote:

>

>> Tom, N3HPR, just got his new U-2000. He also has APRS version 74c

>> installed; he is registered for weather; and has done an Alt-S to validate.

>> But the weather is not being received by APRS--nonsensical info and improper

>> numbers and letters are displayed at top of screen

>

>APR REPLY: He should be at the standard rate of 2400 for all ULTIMETERS.

>He should use the U-2000 in the mode which outputs continuoiously if he is

>dual ported. He should use the packet mode if he is making a REMOTE WX

>station.

He is two port. I assume (correct me, if wrong) that the program sets the Wx computer comm port for the correct speed--2400 baud. AND, that the speed setting selected during program initialization (in his case 4800 baud) only affects the TNC port.

>In the U-2000 the output may already be RS-232 and not need the -v pull

>down resistor like the U-II required... Ill check...

WX.TXT has the following line which leads me to believe that a different cable should be used: "The U-2000 is directly RS-232 and needs no pull down resistor." However, N3HPR said that documentation (and the salesman, who he talked to, and who knew that he was interfacing with APRS) did not indicate that the cable was different. There is a cable and software package offered with the U-2000. But HPR did not use the software package he bought with the U-II so he didn't order the software for the U-2000. I suspect that that cable is different. And this is the real problem. He will have to talk to them and possibly order that cable. He wants to keep the other cable as he is planning to run the U-II as a remote unit from his summer cottage.

When we get this all straightened out, we'll report back to the SIG the final results.

73, Dave, N3E0Y

```
*****
* David G. Henderson                                daveh@moose.erie.net *
* Amateur Radio: N3E0Y                               n3eoy@wa3zca.#nwp.pa.usa.noam *
* Emergency Coordinator, Erie County PA SKYWARN *
* Township Supervisor, Franklin Township, Erie Co., PA *
* Work Phone: 814-734-3521 (7 am-3 pm); Fax: same, voice first *
* Home Phone: 814-734-4623; Fax: same, voice first *
* Digital Pager: 814-452-9263 *
*****
```

293. Tapr Problems

From: ke4eer@ro.com (William Nolle)
Date: Mon, 11 Dec 1995 12:39:39
To: aprssig@tapr.org
Message-ID: <199512111947.NAA04784@sh1.ro.com>
Rendered body type: text/plain

There must be a software bug got into the Tapr systm again hi. In an attempt to connect to FTP a file i got the message connection refused. O well things like that will happen when playing with Bits and Bytes i guess.

I wanted to upload a revised map layout for Hattiesburg,MS that i would like APRS users to download and look at and give me some feedback on how you like the setup. I am constanly trying my best to improve on the street level map layouts. When installing these maps there's also a text file that will be placed in your readme directory i would like you to read this before trying the maps so you will know what to look for in this layout. Hopefully with all of us mapmakers working on these we can come up with the most usable layout for all of us. PLEASE take a look at these and don't forget the feedback (Flames or otherwise)(Good or no good), Thank you.....
By the way if i can get to upload the file it's name will be MSMAPS03.ZIP

Bill KE4EER
ke4eer@ro.com

294. Attached garbage

From: "PETER L. LASCELL" <LASCELL@lecs.ericsson.se>
Date: Mon, 11 Dec 1995 22:22:21 +0100
To: aprssig@tapr.org
Message-ID: <01HYP3TSMMKI94FI33@edt.ericsson.se>
Rendered body type: text/plain

Message forward to APRSSIG

From: "willf@rrgroup.com" "Willson Flor"
Subject: Attached Garbage

11-DEC-1995 15:59:46.30

Well, if *this* message also has no garbage, I have indeed found the trick.

Unfortunately, for reasons completely unrelated to this, my ISP (my employer) has "lowered the boom" about an hour ago as I write this and decreed that nobody here may use e-mail, web access, etc. for *anything* other than traffic related to our business, which is (of course) unrelated to APRS. Therefore, I have unsubscribed to APRSSIG :-(

If you would like to post it, or just file it away for reference, here it is:

In Microsoft Exchange *Server* set every domain to which you send mail as a domain to *not* send MIME-encoded files to (MIME is the default, and *every* domain has to be entered seperately.) Then, when responding to e-mail, formulate your response and *paste it* into a new message, then send. As long as you don't respond, but instead send a new message, and as long as it's not MIME-encoded, the problem seems to not exist.

73 de KB9JTT (Just a few miles from the Great Lakes, but oh so far from the APRSSIG.....)

Hope to be back on APRSSIG with a different ISP soon - 'til then, see you on the radio.

295. Re: [APRSSIG:5077] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10

From: philkeys@olympus.net (Phil Keys)
Date: Mon, 11 Dec 1995 13:44:11 -0800
To: aprssig@tapr.org
Message-ID: <v01510100acf2546cd9ae@[198.133.237.37]>
Rendered body type: text/plain

Hello Mark

You're right, I goofed. Meant KHz instead of MHz.

KC7KEZ is a new club call for the Jefferson County Amateur Radio Club.

Come visit us again.

73

Phil Keys

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

296. Newbie Questions

From: JayMillard@aol.com
Date: Mon, 11 Dec 1995 17:24:33 -0500
To: aprssig@tapr.org
Message-ID: <951211172425_70107182@emout04.mail.aol.com>
Rendered body type: text/plain

I have been following the SIG for about three months, but just recently got <on the air> with MacAPRS. It is very cool. My current system consists of a Mac Iici running version 2.1.2, Yaesu 736R and AEA PK-232MBX TNC. There are some areas of APRS in general that the documentation that I have access to hasn't addressed. Some of the questions relate to a subject near and dear to your hearts: UNPROTO PATHS.

1. I understand that the only way for my station to be seen outside of the region, as I am now only transmitting on 145.79, is to put at least one GATE in my UNPROTO path. Is there anything intrinsically <wrong> with wanting your station to show up on everyone else's map?

2. What is the <proper> sequence for that GATE, and should there be another GATE as well? This assumes that my fixed station would only be transmitting less than once per hour.

3. Since in addition, I have an HF rig, an AEA PK-232MBX TNC and a Mac, is this system capable of being be used on HF?

Please feel free to answer me directly: JayMillard@aol.com, or here on the SIG if you feel others might benefit.

Thank you in advance,
Jay Millard KD1LY
Darien, CT

297. Re: [APRSSIG:5071] GPS45 & KPC-3 Tracker

From: rfw <rfw@mindspring.com>
Date: Mon, 11 Dec 1995 17:47:02 -0500
To: aprssig@tapr.org
Message-ID: <199512112247.RAA21221@borg.mindspring.com>
Rendered body type: text/plain

Yes, it will. But slowly and will have only a black and white display with *giant* icons.

At 10:07 PM 12/10/95 -0600, KC6HUR wrote:

I have not checked but I believe APRS will run on a 286 with CGA
>video (never felt the need for the latest golly gee whiz computer).
>

298. Re: [APRSSIG:5080] Tapr Problems

From: Greg Jones <wd5ivd@tapr.org>
Date: Mon, 11 Dec 1995 17:15:37 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512112315.RAA10243@sys1.tapr.org>
Rendered body type: text/plain

Have you tried since you posted this message ?

We had the system down a short time today while we upgraded the memory.
I guess I have to check with Lee about the KE4EER filter we hvae installed by accident :-) Just seems that you have bad timing.

Cheers - Greg

> There must be a software bug got into the Tapr systm again hi. In an attempt

> to connect to FTP a file i got the message connection refused. O well things
> like that will happen when playing with Bits and Bytes i guess.
>

299. messages in attachments

From: quarry@q.continuum.net (Chip)
Date: Mon, 11 Dec 1995 18:50:48 -0500
To: aprssig@tapr.org
Message-ID: <v01530504acf27123f36f@[199.0.52.68]>
Rendered body type: text/plain

I wish those of you who enclose you messages in attachments along with themselves please don't. It is irritating and a waste of bandwidth and hard drive space as well as being a nuisance in that I have to manually chase them down. This seems to be the only list I have that trouble with.

BTW, I can't seem to translate these files, but what little garbage I do get out of them is that they come from MicroSoft <gag> Mail.

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
- eMail to: quarry@q.continuum.net (alternate: emmet2@aol.com)
- FidoNet to: Chip@1:320/301.0 or .1
my home page: <http://q.continuum.net/~quarry/>
TRAUG home page: <http://q.continuum.net/~quarry/TRAUG.html>

300. U-II/U-2000 Prices

From: mark@tetherless.com (Mark Oppenheim)
Date: Mon, 11 Dec 1995 14:18:22 -0800
To: aprssig@tapr.org
Message-ID: <199512112218.0AA13416@gorgor.pa.tetherless.com>
Rendered body type: text/plain

What/who has the best prices for the U-II and the U-2000? And what are the recommended options? I'll probably be getting one this week - (now that it's raining, of course)

Mark
KD6KQ

301. Re: [APRSSIG:4863] Re: New Address

From: edwardwr@skognet.com (Ed Rogers)
Date: Mon, 11 Dec 1995 12:52:18 -0600
To: aprssig@tapr.org
Message-ID: <199512111852.MAA11184@skognet.skognet.com>
Rendered body type: text/plain

>Ed,
> I've tried to send you 1/2 dozen messages.
>
> I'd like to thank you for the Grayslake seminar.
>
> I get down to Chicago occasionally for a computer meeting -
>What repeater should I try you on????
>
> I am the Frequency Coordinator for Wisconsin. Do you need to
>contact the FC for IL? I can get you his address. jruck@heartland.
>bradley.edu (sorry for the line split).
>
> What can I do to help?
>
> Dick Isley is on mcs - sounds like a VERY good deal!
>
>73 de Dave Barrow, N9UNR
>FC-WI WAR-MAAC
>n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu
>
>
Hi Dave,

Got new adress so old stuff must be off in E-mail Land....

Dick has copy of program (Ive done Demo at FRRL) so we need to see him on air.
Im in S'Field a lot now for J-O-B but when on voice tyr WAFAR in Repeter Guide.
How do you like web page:
73
Ed>

302. Re: New Address

From: mark@tetherless.com (Mark Oppenheim)
Date: Mon, 11 Dec 1995 17:06:36 -0800
To: aprssig@tapr.org, edwardwr@skognet.com, n9unr@execpc.com
Message-ID: <199512120106.RAA17035@gorgor.pa.tetherless.com>
Rendered body type: text/plain

At 06:51 PM 12/11/95 -0600, Ed Rogers wrote:

>>Ed,
>> I've tried to send you 1/2 dozen messages.
>>
>> I'd like to thank you for the Grayslake seminar.
>>
 <SNIP>

>>73 de Dave Barrow, N9UNR
>>FC-WI WAR-MAAC
>>n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu
>>
>>
>Hi Dave,
>
>Got new adress so old stuff must be off in E-mail Land....
>
 <SNIP!>
>Ed>
>

Can you guys please take the personal comms off of the sig, and respond directly to each other?

Thanks! :)

303. Re: [APRSSIG:5087] U-II/U-2000 Prices

From: "Larry Griffin" <largriff@onramp.NET>
Date: Mon, 11 Dec 1995 19:17:14 +0000
To: aprssig@tapr.org
Message-ID: <199512120118.TAA28990@mailhost.onramp.net>
Rendered body type: text/plain

On 11 Dec 95 at 18:14, Mark Oppenheim wrote:

> What/who has the best prices for the U-II and the U-2000? And what
> are the recommended options? I'll probably be getting one this week
> - (now that it's raining, of course)

I'm not sure about distributor prices but Peet Bros themselves have a couple of specials running till the end of December. The first deal is a price of \$199 for the U-500, regularly \$239. The other deal is a special upgrade price of \$199 for the U-2000, regularly \$379, for anyone with the U-II. The upgrade package does not include the wind sensors; the U-2000 uses the same ones as the U-II.

*** No Attachments Here! ***

Larry Griffin <largriff@onramp.net>

304. Meteor Scatter test 14 Dec

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Dec 1995 21:04:45 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.951211204147.16745A-100000@greatlakes>
Rendered body type: text/plain

The nationwide 2m and 6m packet meteor scatter test will begin at 0000 UTC on 14 Dec, the evening of Wednesday, 13 Dec. All packet stations are invited to participate. For more info see the Dec QST column by Stan Horzempa. We will use 50.62 and 145.79 IF AVAILABLE in your area.

If you are going to use the Meteor Scatter mode in APRS, please note the following caution/addendum: In APRS versions prior to APRS74e, I miscounted the 4 sections of the US. In the menu I numbered them 1 to 4, but in the code, they are numbered 0 to 3. Use the following table to figure out what you need to do to transmit on the right schedule...

SECTOR APRS74b SECTOR TO SECTOR TO ENTER IF

| OF USA | MENU | ENTER | USING APRS74e |
|--------|------|-------|---------------|
| NE | 1 | 0 | 1 |
| SE | 2 | 1 | 2 |
| SW | 3 | 2 | 3 |
| NW | 4 | 3 | 4 |

The version 74e will be posted on 12 Dec.

READ APRS\README\METEOR.txt for details...

REMINDERS: EVERYONE MONITOR!

Do NOT transmit unless you have a BEAM and plenty of power
APRS will schedule all transmissions IF your CLOCK is correct
and IF you have selected the right SECTOR.

If you live near the 39th latitude or 96th longitude, then
everyone in your area should agree on which sector to use.

Choose your sector based on where you ARE, but also consider
where your beam is pointed and when your target area is
transmitting.

What this means is, if you are in mississippi, dont beam SE, because
everyone to your SE will be transmitting when you are, so no one will
hear you! Always point to one of the other three quadrants.

305. Re: [APRSSIG:5079] Re: Hooking up U-2000

From: moyers@ibm.net
Date: Mon, 11 Dec 95 21:36:35 +0000
To: aprssig@tapr.org
Message-ID: <9512120542.AA0094@slip166-72-241-82.tn.us.ibm.net>
Rendered body type: text/plain

> WX.TXT has the following line which leads me to believe that a different
> cable should be used: "The U-2000 is directly RS-232 and needs no pull down
> resistor." However, N3HPR said that documentation (and the salesman, who he
> talked to, and who knew that he was interfacing with APRS) did not indicate
> that the cable was different. There is a cable and software package offered
> with the U-2000. But HPR did not use the software package he bought with the
> U-II so he didn't order the software for the U-2000. I suspect that that
> cable is different. And this is the real problem. He will have to talk to

You suspect correctly. From what I recieved from Peet Bros. the U-2000 is RS-232 on it's
com port. They faxed me a pin out for the cables to both a 9 and 25 pin serial
connector. They did not call for a pulldown resistor and only indicated a grnd, TX, and
RX line connections.

Here is question for BOB, do they use Xon Xoff for flow control?? Or is aprs simply
ignoring that comport until it needs the data?

> them and possibly order that cable. He wants to keep the other cable as he
> is planning to run the U-II as a remote unit from his summer cottage.
>
> When we get this all straightened out, we'll report back to the SIG the
> final results.
73

John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

306. Re: [APRSSIG:5077] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Date: Mon, 11 Dec 1995 17:59:33 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512112359.RAA11301@crasher2.ttgciitn.com>
Rendered body type: text/plain

Thus spake Willson Flor, splattered hither:

> I don't know anyone from the KC7KEZ club (although I've been to their hom=
> e town - in one of the most beautiful areas of the US, IMNSHO) but I'm pr=
> etty sure they meant 10151.5 KHz, which is in the 30-meter amateur HF ban=
> d.

No it isn't. That's somewhere in the middle of the FM Broadcast Band, isn't
it? ;-)

I think the original poster meant 10151.5 Hz. ;-)

--

Ryan Tucker

ttgciitn.com owner

307. Re: [APRSSIG:5091] Meteor Scatter test 14 Dec

From: JayMillard@aol.com
Date: Mon, 11 Dec 1995 21:54:02 -0500
To: aprssig@tapr.org
Message-ID: <951211215347_70400616@emout04.mail.aol.com>
Rendered body type: text/plain

Bob Bruninga wrote:

>The nationwide 2m and 6m packet meteor scatter test will begin at 0000
>UTC on 14 Dec, the evening of Wednesday, 13 Dec. All packet stations are
>invited to participate.

Bob, does this mean that any APRS station normally operating on 145.79 but
not participating in the Meteor Scatter test should suspend operations as of
0000 UTC on 14 Dec 95? If so, for how long?
Jay Millard KD1LY

308. Re: [APRSSIG:5086] messages in attachments

From: n2czf@gate.net
Date: Mon, 11 Dec 1995 22:30:15 -0500
To: aprssig@tapr.org
Message-ID: <199512120330.WAA33286@osceola.gate.net>
Rendered body type: text/plain

Just to let everyone know that may not already the attachments ARE NOT done
intentionally. I started the subject after my system crashed every time I read
or even attempted to delete the message (without even reading it!). The message
was posted to see if it was just me or others had the problem.

As has been STATED BEFORE the files are created by Microsoft Mail, not by the
sender but by the program. The few users that do have the program are now aware
of the situation and I know of at least 1 user that is no longer running the
program due to the problem.

Again the attachments are not intentional, it is a problem that Microsoft has
created and with more and more users of Win95' trying the program I am sure we
will see it again as we gain new members on the sig. if a new sig member is not
aware of the problem just e-mail him/her and let them know of the situation,
they are probably clueless that this is happening.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

309. Re: [APRSSIG:5093] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10

From: Ryan Tucker <rtucker@crasher2.ttgcihn.com>
Date: Mon, 11 Dec 1995 21:25:38 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512120325.VAA12082@crasher2.ttgcihn.com>
Rendered body type: text/plain

Thus spake Ryan Tucker, splattered hither:

> Thus spake Willson Flor, splattered hither:
> > I don't know anyone from the KC7KEZ club (although I've been to their hom=
> > e town - in one of the most beautiful areas of the US, IMNSHO) but I'm pr=
> > etty sure they meant 10151.5 KHz, which is in the 30-meter amateur HF ban=
> > d.
>
> No it isn't. That's somewhere in the middle of the FM Broadcast Band, isn't
> it? ;-)
>
> I think the original poster meant 10151.5 Hz. ;-)

DOH!! I just thought about it.

I need more sleep.

--
Ryan Tucker
rtucker@ttgcihn.com
http://www.ttgcihn.com

ttgcihn.com owner
ann-arbor.mi.us.undernet.org irc admin
netins.net user development group

310. Re: [APRSSIG:5092] Re: Hooking up U-2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Dec 1995 00:12:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951212001138.17246A-100000@greatlakes>
Rendered body type: text/plain

On Mon, 11 Dec 1995 moyers@ibm.net wrote:

>
> Here is question for BOB, do they use Xon Xoff for flow control??
> Or is aprs simply
> ignoring that comport until it needs the data?

APR REPLY: Ignores it. Then clears buffer, and takes the first sample after that...

311. Re: [APRSSIG:5094] Re: Meteor Scatter test 14 Dec

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Dec 1995 00:25:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951212001530.17246B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 11 Dec 1995 JayMillard@aol.com wrote:

>
> Bob, does this mean that any APRS station normally operating on 145.79 but
> not participating in the Meteor Scatter test should suspend operations as of
> 0000 UTC on 14 Dec 95? If so, for how long?

APR REPLY: 3 Meteor Scatter packets over 1000 miles distant were received by at least 3 different stations running omni antennas. One was in an attic! Although rare, you may as well LISTEN. The fewer packets you send for those 24 hours, the more all your neighbors have a chance of hearing a DX packet.

RECOMMENDATION FOR ALL HIGHPOWER STATIONS AND STNS WITH BEAMS:

Set MScatt mode and aim your beam in a different direction than the other aligators in your area are aiming. Set a high duty cycle

RECOMMENDATION FOR ALL OTHER APRS stations:

Operate MScatt mode but at a low duty cycle
By being in MScatt mode, you will only copy stations heard DIRECT.

Even if you dont see any MScattt packets, you may be surprised at how many stations you hear direct!

312. Microsoft Attitude

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 12 Dec 1995 03:12:31 -0600
To: aprssig@tapr.org
Message-ID: <9512120912.AA09413@omnifest.uwm.edu>
Rendered body type: text/plain

gerry@cs.tamu.edu (Gerald J Creager) said:

"Microsoft is aware of it, and has told folks I work with who tried to get a fix that it would not be a problem if everyone was running Windoze 97.

The world has not QUITE gotten to that level of depravity. Some of us are smart enough to get all of the features in 1985 on our Macs.

If Bill Gates wants me to debug his code - he can pay my standard rates. I might think about Win95 in 97 or 98 - ought to be debugged by then.

Dave
Barrow

313. Grabber

From: ke4eer@ro.com (William Nolle)
Date: Tue, 12 Dec 1995 04:56:55
To: aprssig@tapr.org
Message-ID: <199512121204.GAA00281@sh1.ro.com>
Rendered body type: text/plain

For those that have been asking me for a copy of the screen grabber i have uploaded the file to tapr under the file name GRAB397.ZIP. I didn't want to do this at first since it really isn't related to APRS (Well it almost is). It does a great job of taking a picture of your APRS screen and outputs the into an executable (EXE) file that's great for club demos and APRS gatherings, it also has software included to covert the EXE file into GIF or PCX files. Several APRS users have asked me to make it available so they can take some APRS screen pictures and use the GIF files to place them on their Web home page.

I have also included a txt file so APRS users will know what the file is all about and so they won't mistake it for a new version of Bob's or Keith's APRS software Hi Hi.

Bill KE4EER
ke4eer@ro.com

314. Re: [APRSSIG:5098] Re: Meteor Scatter test 14 Dec

From: Penn M McClatchey <pmm@safn2.saf.com>
Date: Tue, 12 Dec 95 8:22:13 EST
To: aprssig@tapr.org
Message-ID: <9512120822.aa14701@safn8.saf.com>
Rendered body type: text/plain

>
>Sender: aprssig@tapr.org
>Precedence: bulk
>From: Bob Bruninga <bruninga@nadn.navy.mil>
>
>On Mon, 11 Dec 1995 JayMillard@aol.com wrote:
>>
>
>RECOMMENDATION FOR ALL HIGHPOWER STATIONS AND STNS WITH BEAMS:
> Set MScatt mode and aim your beam in a different direction than
> the other aligators in your area are aiming. Set a high duty cycle

I've been using APRS for about two weeks. Really cool. I run up to 40 watts into a 13 el (vertical) yagi about 40 ft above the surrounding terrain. I am up on a ridge. Am I considered a highpowered station with a beam? And if so, hey Ralph, (N4NEQ): I'm in Atlanta, which way should I beam?

Another question: at what % of the channel load is chatting no longer considered appropriate? Or is chatting every appropriate? Friday evening, I did not expect it when a station wanted to chat using the tailing comments.

Thanks and 73 de WB4DPT

Penn M. McClatchey (Southern Aluminum Finishing Co, Atlanta, GA, USA)
Architectural Aluminum. Custom Fabrication. Paint, Powder Coating, Anodizing.
pmm@saf.com Amateur Radio WB4DPT Voice: 404-355-1560,ext231

315. U-II connections

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Tue, 12 Dec 1995 08:33:45 -0600
To: aprssig@tapr.org
Message-ID: <199512121433.IAA22580@OAMPC10.csg.mot.com>
Rendered body type: text/plain

>You suspect correctly. From what I received from Peet Bros. the U-2000 is RS-232 on it's
>com port. They faxed me a pin out for the cables to both a 9 and 25 pin serial
>connector. They did not call for a pulldown resistor and only indicated a
>grnd, TX, and
>RX line connections.
>

I have an automatic rain gauge made by a company other than Peet that I would like to interface to the U-II (or U-2000 if Santa Claus is generous). Does anyone have a schematic for the Peet rain gauge interface for comparison?

Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles).

316. Re: [APRSSIG:5077] Re: KC7KEZ Christmas Party on HF APRS, De

From: aprssig@tapr.org at Internet-Mail
Date: Tue, 12 Dec 1995 07:48:14 -0600
To: aprssig@tapr.org
Message-ID: <0cd8f300@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

I tried to get a coordination for 10515.5 Mhz, but there was already manned UFO activity on that 10153.5, and couldn't get it moved!

Kc7co
;-)

Subject: [APRSSIG:5077] Re: KC7KEZ Christmas Party on HF APRS, Dec. 1
From: aprssig@tapr.org at Internet-Mail
Date: 12/11/95 9:42

You wrote:

From: Mark Farver (KB9JMJ) [SMTP:farver@uwplatt.edu]
Sent: Sunday, December 10, 1995 12:56PM
To: aprssig@tapr.org
Subject: [APRSSIG:5058] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10

. At 12:36 PM 12/9/95 -0600, you wrote:
. >The Jefferson County Amateur Radio Club, KC7KEZ, will be on the air from
. >Port Townsend, WA demonstrating HF APRS on 10151.5MHz for its annual
. >Christmas party, Sunday Dec. 10.

.
. I may be a newbie... but isn't 10151.5 _MHz_ X-band microwave, not HF?
.

I don't know anyone from the KC7KEZ club (although I've been to their home town
-
in one of the most beautiful areas of the US, IMNSHO) but I'm pretty sure they
m
eant 10151.5 KHz, which is in the 30-meter amateur HF band.

. Mark
. KB9JMJ

73 de KB9JTT, willf@rrgroup.com
About 7 miles from the Great Lakes, but a little farther from Greatlakes, and
far
ther yet from Port Townsend, Washington.
[Attachment: Mime9.raw; application/octet-stream; 1,794 bytes]

317. HSP Mode Screen Lock-up

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 12 Dec 1995 09:30:32 -0500
To: aprssig@tapr.org
Message-ID: <199512121435.JAA19079@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

I recently tried operating mobile in the HSP mode (Motorola
Traxar+ GPS, Pacomm Handipacket w/their HSP cable,
IBM750C laptop) but kept getting screen lockups after a few
minutes. Plenty of CPU speed & memory. The screen will freeze
for long periods, interrupted with brief updates. In the "V" mode you can
see that the data from the GPS & rcvr keep coming in, so it's not a
program crash, but seemingly, the computer keeps too busy to update the
screen except very infrequently. Tried playing around with the Posrate
and frequency of updates from the GPS (Can only vary from 1 to 9 sec),
but no luck.

Has anyone had this problem and/or a solution? I had been operating
standalone or as a tracker without any trouble.

Bob Kirk
N30ZB

kirk@neptune.gsfc.nasa.gov

318. Prices for Garmin 45

From: mark@y100.com
Date: Tue, 12 Dec 1995 07:54:20 -0800
To: aprssig@tapr.org
Message-ID: <199512121554.AA10780@relay.interserv.com>
Rendered body type: text/plain

I'm shopping around for a Garmin GPS-45, but it's been a while since I saw
"good" prices posted here. If you purchased one recently, I would really
appreciate any current pricing information (including phone number) which I will
forward to Santa Claus.

>From the comments I've seen here, the Garmin 45 seems to be the best buy, but if
you have any suggestions for an similar-cost alternative with more/better
features, I'm interested in your opinion. I need a unit with NMEA output, but
it doesn't necessarily have to display high speeds.

Thanks!

Mark, N2CHV

319. Re: [APRSSIG:5087] U-II/U-2000 Prices

From: mark@y100.com
Date: Tue, 12 Dec 1995 07:54:24 -0800
To: aprssig@tapr.org
Message-ID: <199512121554.AA10784@relay.interserv.com>
Rendered body type: text/plain

On Mon, 11 Dec 1995, mark@tetherless.com (Mark Oppenheim) wrote:
>What/who has the best prices for the U-II and the U-2000? And what are the
>recommended options? I'll probably be getting one this week - (now that
>it's raining, of course)
>
>Mark
>KD6KQ
>

If you're considering the U-2000 system, you should order the U-II system directly from Peet Brothers for \$179 -- with the U-2000 display for an extra \$199. (Special "upgrade" price through the end of December.) The total cost for this package is \$378, a buck CHEAPER than the U-2000 system sells for BY ITSELF.

This will give you the ability to use the two displays in different locations within a hundred feet or so -- a nice feature if you want to use one in the shack and the other in the house. (You will need to purchase an extension cable or make your own using eight-pin modular connectors.) The U-II display does not provide as many memory registers as the 2000, and cannot display barometer or humidity/dewpoint, but it will show temperature, wind, and rainfall data.

Peet Brother tells me the wind speed/direction sensor shipped with the U-II system is totally compatible with the U-2000 -- the only difference is the color of the Lexan plastic.

Mark, N2CHV

320. 2M Maps???

From: Jim Pauling <James_Pauling@csg.mot.com>
Date: Tue, 12 Dec 1995 10:07:14 -0600
To: aprssig@tapr.org
Message-ID: <199512121607.KAA24372@OAMPC10.csg.mot.com>
Rendered body type: text/plain

In mapfix.txt reference is made to a program written buy KB4XF which extracts data from the USGS CD-ROM. Also a program written by W4NMK which does the same thing but with files downloaded from the USGS.

I will be going traker mode from IL through WI to the UP this weekend and wanted to make some 32 mile maps of my route.

I seems that the 2M DLG files are not available anymore only the SDTS format. IS this true or is their another source?

Thanks for the Help.

Jim, KB9LIN
jim_pauling@csg.mot.com

321. Re: [APRSSIG:5078] Re: 145.820??

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 12 Dec 1995 10:10:57 -0600
To: aprssig@tapr.org
Message-ID: <9512121610.AA22104@omnifest.uwm.edu>
Rendered body type: text/plain

WAR coordinating packet??

WAR is not coordinating packet. However for lack of anyone else doing the coordination we may have to - by default.

I was under the impression that digital modes were coordinated in WI by WAPR (Wisconsin Amateur Packet Radio) via Steve KE9LZ.

That is my understanding - that he is supposed to do that - but - as far as I can tell he hasn't.

As far as specific coordinations of 145.79, I know not.

I thought that your original message specifically stated that YOU had gone to a great effort to get that coordinated.

Personally - I think that the frequency ought to be coordinated nationwide. _I_ have submitted the issue to the national coordinator's remailer and urged their speedy action. The ARRL is even involved <g>!

I (as a former cop and judge) resent rules and regulations as much, or more than the next person - but unless we do a little spectrum management we are going to lose the frequencies - the FCC will decide that we are more trouble than we are worth.

Pray tell - what is all that "stuff" at the end of your message?

Merry Christmas!

Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr@execpc.com (PREFERRED)

322. MKMAPHK2.EXE Upgrade

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Dec 1995 12:35:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951212123218.25667A-100000@greatlakes>
Rendered body type: text/plain

Just talked to Jack Cavanaugh and he said the only difference in the UNPLOCKED map files from the interenet and the BLOCKED ones off the CD, are of course the CR-LF at the end of each 80 character block. But since he reads the files as RANDOM, the only difference is to change the OPEN FILE statement... LEN=82 to ... LEN=80 and it will work fine off of UNBLOCKED files. I added a USER PROMPT allowing you to specify BLOCKED or UNBLOCKED and re-compiled the program as MKMAPHK2.EXE and it is included in APRS74E. The MKMAPHK2.bas source code is only in the UPGRADE file 72cto74e.zip...

Hope this helps...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

323. Ver APRS74e.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Dec 1995 12:44:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951212123557.25667B-100000@greatlakes>
Rendered body type: text/plain

Latest APRS and one upgrade file are now posted.

- * Fixes Meteor Scatter SECTORS to 1 thru 4 vice 0 through 3.
- * May do band switching with PK-900/2232... (and of course, maybe not)
- * New <> keys will hook-step through all stations on current SCREEN. This makes it easy to zoom into an area, and hook everyone in turn to see what is happenin'. Actually, its the "," and "." keys so that you dont have to hold down the shift key while pressing the < and > key...
- * Fixed the cursor display in MAPFIX18 to avoid truncation errors at small ranges near even LAT/LONG lines.
- * F3/F4 work better for changing number of displayed labels. Actually SPACE BAR restores to normal labels. F3 brings up more. F4 should bring up less, but DONT HIT SPACE, hit HOME instead to re-draw without defaulting back to standard labels..
- * Fixed the wrap-around which screwed up the HOOK-DISPLAY in 74c.
- * Version 74d was a BETA test of some of these and was not intended for general distro.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

324. APRS74e.zip and PICO TNC

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Dec 1995 13:17:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951212131329.25667K-100000@greatlakes>
Rendered body type: text/plain

On Tue, 12 Dec 1995, Randy Hall wrote:

> Does APRS74e.zip address the picopacket issues?

APR REPLY: Yes, I forgot to say, that 74e WILL automatically request a GPS posit from the new-dual-serial-port-gps version of the PICO-TNC.

This means that you just plug the GPS into the PICO-TNC and plug the TNC into APRS, and you don't need the HSP SWITCH! All you do is configure APRS for HSP, but when you first started APRS, you told it you had a PICO. APRS will then know to request the GPS posit over the serial port from the TNC...

325. Virginia maps

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Tue, 12 Dec 1995 16:07:38 +0000
To: aprssig@tapr.org
Message-ID: <199512122109.QAA19891@hemisphere.neocomm.net>
Rendered body type: text/plain

Hello

I have made 40+ maps of Virginia at the 8.4 mile range. The centers of the maps are horizontally 20 minutes apart and 15 minutes vertical separation. I found this grid size to give a good continuous map at the 8 mile or less range. I am missing some maps from my grid for some reason I cannot generate the missing maps from my Internet data? I have not begun to label this maps yet and no city locations are included. Most of these maps are small in size 1500 points, so they load fast on my slow notebook.

If anyone is interested in the data I have at present I will be glad to zip and upload the maps and maplist.va, to the tapr ftp site. I had hoped to wait until I had a completed set of 8.4 miles of my state but who knows when that will be!!

Let me know if you are interested, but
PLEASE DO NOT INCLUDE A COPY OF THIS LETTER WITH YOUR REPLY
There is entirely too much repetition here, a simple phrase in the subject line is usually (but not always) enough to let folks know the contents of your email. Gosh I see 20 copies of some letters that get heavy replies,,, that's 20 copies recent to 200 users. This is a great source of information and I really enjoy reading all the new info and discussions of old topics. But I am not interested in personal mail to Elmer@someplace.USA send it to Elmer not the Aprssig. Wow all that flaming I have been ready is affecting me now....he he

cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4Q0J.VA.USA.NOAM

326. Re: [APRSSIG:5104] HSP Mode Screen Lock-up

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Tue, 12 Dec 1995 16:11:19 +0000
To: aprssig@tapr.org
Message-ID: <199512122112.QAA19995@hemisphere.neocomm.net>
Rendered body type: text/plain

My HSP problems were caused by my laptop power supply. Voltage reached the serial port shield and prevented the HSP from doing its job. Works ok on internal battery..

cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4Q0J.VA.USA.NOAM

327. Re: [APRSSIG:5112] Virginia maps

From: alanwc7r@primenet.com (Alan Unangst)
Date: Tue, 12 Dec 1995 14:37:17 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199512122137.OAA25768@usr4.primenet.com>
Rendered body type: text/plain

I would be very interested, especially the areas around Alexandria and Woodbridge!

73, Alan, WC7R alanwc7r@primenet.com

At 03:14 PM 12/12/95 -0600, Charles W. Davidson wrote:
>Hello
>
> I have made 40+ maps of Virginia at the 8.4 mile range. The
>centers of the maps are horizontally 20 minuets apart and 15 minuets
>verticle separation. I found this grid size to give a good continuous
>map at the 8 mile or less range. I am missing some maps from my grid
>for some reason I cannot generate the missing maps from my Internet
>data? I have not begun to label this maps yet and no city locations
>are included. Most of these maps are small in size 1500 points, so
>they load fast on my slow notebook.
> If anyone is interested in the data I have at present I will be
>glad to zip and upload the maps and maplist.va, to the tapr ftp site.
>I had hoped to wait until I had a completed set of 8.4 miles of my
>state but who knows when that will be!!
>
>
> Let me know if you are interested, but
>PLEASE DO NOT INCLUDE A COPY OF THIS LETTER WITH YOUR REPLY
>There is entirley to much repitition here, a simple phrase in the
>subject line is usually (but not always) enough to let folks know the
>contents of your email. Gosh I see 20 copys of some letters that get
>heavy replies,,, thats 20 copies recent to 200 users. This is a great
>source of information and I really enjoy reading all the new info and
>discussions of old topics. But I am not interested in personel mail
>to Elmer@someplace.USA send it to Elmer not the Aprssig. Wow all that
>flaming I have ben ready is affecting me now....he he
>
>cdavidso@neocomm.net
>http://www.neocomm.net/~cdavidso/
>Charles W. Davidson
>Route 1, Box 139-H
>Axton, VA 24540-9626
>WB4PAN@WB4QJ.VA.USA.NOAM
>
>

328. software

From: tyork@sas.upenn.edu (Tamara York)
Date: Tue, 12 Dec 1995 16:59:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199512122159.QAA08069@mail1.sas.upenn.edu>
Rendered body type: text/plain

I'm a newbie at aprs but very interested as a member of the ciil Air Patrol.
what software is currently available and where please?

Art York
W4VRP
tyork@mail.sas.upenn.edu

329. The big file

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 12 Dec 1995 17:02:52 -0600
To: aprssig@tapr.org
Message-ID: <v02130501acf3ba0ab37f@[199.1.11.153]>
Rendered body type: text/plain

What is that large file (7.2 Megs) called "mac aprs new" in the
aprssig Upload area yesterday. ??

Keirh doesn't post in all lower case !!!!!

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

330. Re: [APRSSIG:5115] software

From: alanwc7r@primenet.com (Alan Unangst)
Date: Tue, 12 Dec 1995 16:30:30 -0700
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199512122330.QAA18934@usr4.primenet.com>
Rendered body type: text/plain

You can pick up the latest version of APRS, 7.4e at TAPR, Tucson Amateure
Packer Radio,

at ftp://tapr.org/tapr/SIG/aprssig/upload The file is aprs74e.zip

Good luck, and enjoy...hope to see you on the map.

73, Alan, WC7R.....//\\

At 04:07 PM 12/12/95 -0600, Tamara York wrote:

>I'm a newbie at aprs but very interested as a member of the ciil Air Patrol.

>what software is currently available and where please?

>

>Art York

>W4VRP

>tyork@mail.sas.upenn.edu

>

>

>

331. APRS Satellite 11 Jan!

From: Bob Bruninga <bruninga@nadn.navy.mil>

Date: Tue, 12 Dec 1995 20:16:57 -0500 (EST)

To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.951212201032.3973F-100000@greatlakes>

Rendered body type: text/plain

I dont know if everyone is seeing all the mail, but I hope all APRS users are aware that the next Shuttle mission scheduled for 11 Jan will have the SPRE on board the SPARTAN PAYLOAD. SPRE was built by a group from the Univ of Maryland. SPRE will operate for 24 to 48 hours as a satellite detached from the Shuttle. It will send down its GPS posit in AX.25 packet (not APRS formatted) but the format WILL be plotted by APRtrak that has the sepcial X-Y-Z decoder in it.

Also APRtrak willl plot the TELEMETRY on the TELEMETRY page.

But the GREAT news is that the SPRE will also digipeat APRS position reports!

We do NOT want to OVERLOAD the uplink, but we also want to be sure that a good number of stations try to digipeat their grid square via the SPRE digipeater. PUT IT ON YOUR CALENDAR! It will only last a day or so, so BE READY and understand all about APRtrak or the SPACE mode in APRS...

332. Virginia maps uploaded to ftp site

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>

Date: Tue, 12 Dec 1995 21:02:51 +0000

To: aprssig@tapr.org

Message-ID: <199512130204.VAA24554@hemisphere.neocomm.net>

Rendered body type: text/plain

I uploaded file vamaps.zip to ftp.tapr.org . This file contains some 8.4 mile maps and maplist.va as well as a short readme.txt. I also uploaded a file vamaps.txt asking the aprssig sysop to place the vamaps.zip file into the pc maps directory.

cdavidso@neocomm.net

<http://www.neocomm.net/~cdavidso/>

Charles W. Davidson

Route 1, Box 139-H

Axton, VA 24540-9626

WB4PAN@WB4QOJ.VA.USA.NOAM

333. Re: [APRSSIG:5024] 145.790

From: jean@pubs17.si.com (Richard G. Jean Jr.)

Date: Tue, 12 Dec 95 11:09 EST

To: aprssig@tapr.org

Message-ID: <m0tPXGY-0002qMC@pubs17.si.com>

Rendered body type: text/plain

STAY ON 145.79, let the others QSY !!!

I plan on staying on 145.79 !!!!

Thats my 2 1/2 cents worth.....

73's Rich

334. TNC,9600 baud

From: "Michael Turner" <mturner@fox.nstn.ca>
Date: Tue, 12 Dec 1995 21:58:05 -0400
To: aprssig@tapr.org
Message-ID: <199512130258.WAA10488@Fox.nstn.ca>
Rendered body type: text/plain

I intend to buy a TNC specifically for use for APRS. Should I choose one that can be upgraded to 9600 baud?

335. Re: [APRSSIG:5121] TNC,9600 baud

From: "Larry Griffin" <largriff@Onramp.NET>
Date: Tue, 12 Dec 1995 21:36:35 +0000
To: aprssig@tapr.org
Message-ID: <199512130338.VAA01889@mailhost.onramp.net>
Rendered body type: text/plain

On 12 Dec 95 at 21:06, Michael Turner wrote:

> I intend to buy a TNC specifically for use for APRS. Should I choose
> one that can be upgraded to 9600 baud?

I recommend the KPC-3 for mobile APRS use. Its compact, energy efficient, low-cost, and is the only TNC that can be remotely reconfigured. Best price for it is about \$115.

I wouldn't bother with 9600 unless you have a need NOW. My general philosophy with anything electronic is to only buy what I need today. Never pay more to get features that I *may* use later. When later comes around it will be cheaper.

"" Look Ma! No Attachments! ""

Larry Griffin <largriff@onramp.net>

336. Re: [APRSSIG:5102] U-II connections

From: "Larry Griffin" <largriff@Onramp.NET>
Date: Tue, 12 Dec 1995 21:42:50 +0000
To: aprssig@tapr.org
Message-ID: <199512130344.VAA02857@mailhost.onramp.net>
Rendered body type: text/plain

On 12 Dec 95 at 8:45, Paul Moller wrote:

> I have an automatic rain gauge made by a company other than Peet
> that I would like to interface to the U-II (or U-2000 if Santa Claus
> is generous). Does anyone have a schematic for the Peet rain gauge
> interface for comparison?

Peet's rain gauges are elegantly SIMPLE! They have little cups that tip over whenever they fill up. As the cup tips it momentarily closes a switch. All the Ultimeter has to do is count switch closures. Each closure represents .1 or .01 inch, depending on the gauge model.

"" We don't need no stinkin' attachments! ""

Larry Griffin <largriff@onramp.net>

337. Re: [APRSSIG:4961] APRS Train Trip

From: n0soz@n0eir.ampr.org (Sandy)
Date: Tue, 12 Dec 95 22:35:44 CST
To: aprssig@tapr.org
Message-ID: <1465@n0eir.ampr.org>
Rendered body type: text/plain

Message-Id: 1465_n0eir
From: n0soz@n0eir.#stl.mo.usa.noam (Sandy)
To: aprssig@tapr.org

Hello!
just wanted to let u know..Good luck with your trip..my sugestion take an amp,
to your wife no ham can go without his radio..she must take lots of books to study for her ham license
so she can see how much fun it is..:-)
have a good time and best wishes!
sandy

338. Re: [APRSSIG:5122] Re: TNC,9600 baud

From: quarry@q.continuum.net (Chip)
Date: Tue, 12 Dec 1995 23:54:10 -0500
To: aprssig@tapr.org
Message-ID: <v01530503acf40a37d41f@[199.0.52.55]>
Rendered body type: text/plain

At 21:44 12/12/95, Larry Griffin wrote:

> On 12 Dec 95 at 21:06, Michael Turner wrote:
>
> > I intend to buy a TNC specifically for use for APRS. Should I choose
> > one that can be upgraded to 9600 baud?
>
> I recommend the KPC-3 for mobile APRS use. Its compact, energy
> efficient, low-cost, and is the only TNC that can be remotely
> reconfigured. Best price for it is about \$115.

Well, that is not strictly speaking correct. I'm fairly sure the KPC-9612 is also remotely reconfigurable. I don't find that a particularly important feature though. I have yet to setup a remote station that I need to change the operation of (I have yet to setup a remote station).

As soon as I get off my lazy behind and make a few cables I will have a PicoPacket w/ 2nd Serial & Battery to go with my KPC-3 (permanently in the car for mobile packet) and my KPC-9612 (at home for desktop use).

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
- eMail to: quarry@q.continuum.net (alternate: emmet2@aol.com)
- FidoNet to: Chip@1:320/301.0 or .1
my home page: <http://q.continuum.net/~quarry/>
TRAUG home page: <http://q.continuum.net/~quarry/TRAUG.html>

339. Re: [APRSSIG:5118] APRS Satellite 11 Jan!

From: dwetzel@acs.uswest.com
Date: Wed, 13 Dec 1995 09:06:01 -0600
To: aprssig@tapr.org
Message-ID: <0ceefcc0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

145.79 up/down?

Doug Wetzel
KC7CO
dwetzel@acs.uswest.com

Subject: [APRSSIG:5118] APRS Satellite 11 Jan!
From: aprssig@tapr.org at Internet-Mail
Date: 12/12/95 19:32

I dont know if everyone is seeing all the mail, but I hope all APRS users are aware that the next Shuttle mission scheduled for 11 Jan will have the SPRE on board the SPARTAN PAYLOAD. SPRE was built by a group from the Univ of Maryland. SPRE will operate for 24 to 48 hours as a satellite detached from the Shuttle. It will send down its GPS posit in AX.25 packet (not APRS formatted) but the format WILL be plotted by APRtrak that has the sepcial X-Y-Z decoder in it.

Also APRtrak willl plot the TELEMETRY on the TELEMETRY page.

But the GREAT news is that the SPRE will also digipeat APRS position reports!

We do NOT want to OVERLOAD the uplink, but we also want to be sure that a good number of stations try to digipeat their grid square via the SPRE digipeater. PUT IT ON YOUR CALENDAR! It will only last a day or so, so BE READY and understand all about APRtrak or the SPACE mode in APRS...

340. Little symbols got big...

From: "David G. Henderson" <daveh@moose.erie.net>
Date: Wed, 13 Dec 1995 12:14:34 -0500
To: aprssig@tapr.org
Message-ID: <199512131714.MAA04810@moose.erie.net>
Rendered body type: text/plain

Bob,

73, Dave, N3E0Y

From: randyhgvgadg.gvg.TEK.COM (Randy Hall)
Date: Wed, 13 Dec 1995 09:19:08 -0800
To: aprssig@tapr.org
Message-ID: <9512131719.AA01411@gvgadg.gvg.tek.com>
Rendered body type: text/plain

Randy
WA2AGE

| My opinions are my own.
|
| My computer is multimedia deprived.
|
| Randy Hall WA2AGE randyh@gvgadg.gvg.tek.com Grass Valley Group

From: DDOBBINS@aol.com
Date: Wed, 13 Dec 1995 12:22:13 -0500
To: aprssig@tapr.org
Message-ID: <951213122212_53006259@mail02.mail.aol.com>
Rendered body type: text/plain

From: jleonard@tbcnet.com (John B. Leonard)
Date: Wed, 13 Dec 1995 11:37:25 -0600
To: aprssj@tapr.org
Message-ID: <199512131737.LAA22054@tbc2.tbcnet.com>
Rendered body type: text/plain

Page 1873

Thanks Bill/EER! That program is really neat! Now maybe I can get some DOS screens on the NIAN Web page.
J Barry Leonard HamRadio N9VJQ/EN510W
Subependymoma 1990
DeKalb IL
E-MAIL: jleonard@tbcnet.com

344. Kantronic echnical support

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 13 Dec 1995 11:45:35 -0600
To: aprssig@tapr.org
Message-ID: <v02130500acf4c160182d@[199.1.11.156]>
Rendered body type: text/plain

----- I found this on the internet today -----

Good news...Kantronics now has an e-mail account for technical support and service. You can send your questions to service@kantronics.com. They will respond by e-mail.

Remember, too that RF Concepts is a part of Kantronics, so your questions on the amplifiers are welcome as well.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

345. Re: [APRSSIG:5127] Little symbols got big...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Dec 1995 13:09:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951213130829.10563B-100000@greatlakes>
Rendered body type: text/plain

On Wed, 13 Dec 1995, David G. Henderson wrote:

> I noticed with version 74e that the little symbols got big again. Was is
> intentional? I liked the smaller ones.

APR REPLY: Hopefully ONLY the WX symbol got larger again. All others should be as small as they were in the betas... If not, lemme know...

346. Re: [APRSSIG:5127] Little symbols got big...

From: ke4eer@ro.com (William Nolle)
Date: Wed, 13 Dec 1995 12:21:38
To: aprssig@tapr.org
Message-ID: <199512131930.NAA29913@sh1.ro.com>
Rendered body type: text/plain

I agree the smaller ones looked much better that's for sure. Backwards engineering i guess hi...

Bill KE4EER

>Bob,
>
>I noticed with version 74e that the little symbols got big again. Was is
>intentional? I liked the smaller ones.
>
>73, Dave, N3EOY
>

347. Re: [APRSSIG:5130] Re: Grabber

From: ke4eer@ro.com (William Nolle)
Date: Wed, 13 Dec 1995 12:27:12
To: aprssig@tapr.org
Message-ID: <199512131935.NAA30247@sh1.ro.com>
Rendered body type: text/plain

Yes i figured most APRS users would like to save some screens of all the activity around their area, it's a realy neat way of capturing a screen. Glad you like it..

>ke4eer@ro.com (William Nolle) wrote:
>
>>For those that have been asking me for a copy of the screen grabber i have

>>uploaded the file to tapr under the file name GRAB397.ZIP.
>
>Thanks Bill/EER! That program is really neat! Now maybe I can get some DOS
>screens on the NIAN Web page.
>J Barry Leonard HamRadio N9VJQ/EN510W
>Subependymoma 1990
>DeKalb IL
>E-MAIL: jleonard@tbcnet.com
>
>

348. Re: [APRSSIG:5132] Version 74E

From: jrbadams@interlog.com (John R.B. Adams)
Date: Wed, 13 Dec 1995 14:11:46 -0500
To: aprssig@tapr.org
Message-ID: <199512131911.0AA24418@gold.interlog.com>
Rendered body type: text/plain
Tp: Bob Bruninga

I apologize for probably not addressing this message properly, but it is my first attempt to write TO the Sig (which source of info I am enjoying immensely)!

And sincere tnx to YOU, Bob, for creating and developing the APRS programme. Am having a great time with it! (Yes, I am REGISTERED hihi!)

I have downloaded the V.74E from two sources - ftp.cdx.net and the ProjectX BBS. The former gives me a ZIP file of 1127295 blks and from the latter source I get a ZIP file of 1123845. Both packages unzipped alright and, when installed seem to work as they should (as far as I can see). Is the fact that the package sizes are different significant?

Also, when on line with either of the 'new' 74E prgs, they seem to be indicating in the packet info sent out from time to time that I am still using 74C .. although the opening screen does indicate 74E .. Should this be?

Minor points, I agree .. and sorry to bother you with trivia .. but I am interested.

TNX agn, and 73,

John VE3ASX.

John R.B. Adams, VE3ASX

120 Raglan Avenue - Apt. 907
Toronto, Ontario, Canada
M6C 2L4

(416) 653-9842

349. APRtrak and MIR

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Wed, 13 Dec 1995 13:35:04 -0600
To: aprssig@tapr.org
Message-ID: <v02130500acf4d88e5956@[204.181.160.79]>
Rendered body type: text/plain

I had a couple successful digipeats last night from R0MIR. Didn't see any other digipeats though.

How about some others testing APRtrak via R0MIR so we can make sure everything works for the SPRE/Shuttle flight this January.

Ron W5RKN

also:
rparsons@bga.com

350. Re: [APRSSIG:5116] The big file

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Wed, 13 Dec 1995 13:39:37 -0600
To: aprssig@tapr.org

Message-ID: <v02130501acf4dbc41a81@[204.181.160.10]>

Rendered body type: text/plain

>What is that large file (7.2 Megs) called "mac aprs new" in the
>aprssig Upload area yesterday. ??

I tried several times to download it but the server seemed to stop about half-way through.

I assume it is an all-in-one file. Probably not a good idea as an abort kills the whole thing.

Ron W5RKN

also:
rparsons@bga.com

351. Ultimeter 2000/APRS74c/AEA PK12

From: gwelte@blueox.bji.net (George A. Welte)

Date: Wed, 13 Dec 1995 14:44:06 -0600

To: aprssig@tapr.org

Message-ID: <v01530500acf4950f55a2@[206.31.226.37]>

Rendered body type: text/plain

Hi Bob, I have tried everything on God's blue earth to get the 2000 to transmit the weather on a remote type set-up using the AEA PK12, & APRS74c. I have tried many combinations of commands to no avail. I called Peet brothers and got the header 'SULTW' for the packet mode. They said they were also trying a 2000 with APRS and couldn't get it going. In your text along with the 74c release you mentioned the LFIGNORE must be "on" Do you know what the equivalent command is on the AEA?? You have developed quite a program and we are looking forward to working with it. We are coordinating our weather output with the National Weather Service in Grand Forks, ND. Soon we will have 5 or 6 remote weather sites in operation.

Any help you can provide with the above will be appreciated. If more info is needed please let me know.

Sincerely

George A. Welte N0WBU
APRS registration # 22519

352. Re: [APRSSIG:5135] Re: Version 74E

From: Bob Bruninga <bruninga@nadn.navy.mil>

Date: Wed, 13 Dec 1995 17:31:36 -0500 (EST)

To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.951213173045.19526C-100000@greatlakes>

Rendered body type: text/plain

74e still uses the same format as 74c for the CFG file. Therefore, it doesn't change. To update your beacon, just change it to 74e and re-save a config file...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

353. Re: [APRSSIG:5135] Re: Version 74E

From: john.kerr@projectx.com (SYSOP)

Date: Wed, 13 Dec 95 17:53:00 -5

To: aprssig@tapr.org

Message-ID: <8B6D431.0021000B25.uuout@projectx.com>

Rendered body type: text/plain

-> I have downloaded the V.74E from two sources - ftp.cdx.net and the
-> ProjectX BBS. The former gives me a ZIP file of 1127295 blks and from the

Hi John..

As the "owner" of Project X, I can vouch that the files you downloaded through the system of Project X are in fact the "real" thing. The file size difference is due to the fact of the header to identify where the file came from and also due to the fact we have rezipped the package and verified the fact there was no virus present in the system.

You will also find the latest APRS maps for Ontario region available at both the Project X LL BBS (905.792.7890) or

via. FTP at ftp.projectx.com or via. WWW at www.projectx.com

John - VE3SVE

354. METEOR SCATTER TONIGHT!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Dec 1995 19:19:38 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.951213190248.20591A-100000@greatlakes>
Rendered body type: text/plain

In case you forgot, tonight's the big night for the 2 meter and 6 meter USA nationwide Meteor Scatter PACKET test. See details in Dec QST. For all APRS stations, starting at 0000 UTC 2000 EST use FILES-ZERO to clear all your pages and set ALT-S-MODES-mscaT. Then if you have a beam, point it towards a city 600 to 1200 miles away that has APRS activity. If you have anything over 50 watts, then set your XMT duty cycle to 100%.

Low power stations should set duty cycle to less than 10%. (so you dont QRM everyone else in your area trying to LISTEN)

The only time for HIGH power stations to set to less than 100% is if you also want to LISTEN a little bit for other stations in your same timing SECTOR. Florida stations, for example, may want to listen a little bit for other SE stations which are NW of them, but still would be transmitting in the same #1 time frame. Similarly, for New England. READ METEOR.txt and think it all through...

ALSO be CERTAIN your PC clock is within a few seconds of real-time, or all this scheduling is out the window. If you are serious about DX, then you might want to put your PHONE# in your BEACON.

It is best NOT to send APRS MESSAGES, because that REMOVES your grid-square from your packets and no-one else will KNOW where you are...

Of course everyone must use the same freq of 145.79. Be sure it is available in your area before you transmit. Even if it is coordinated to someone else, it wont hurt to LISTEN for weak DX packets that might come in...

|DE WB4APR in Annapolis MD.|

355. Beaming to Chicago/Atlanta

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Dec 1995 19:25:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951213191941.20591B-100000@greatlakes>
Rendered body type: text/plain

The 40 foot Academy Dish is pointed at Chicago from the ANnapolis area. We are running 400 watts into an 18 dB gain antenna. How about 25 Kw ERP! But its narrow beam will see fewer meteors, but if it does hit one, you will hear it between Indiana and Wisconsin!

Look for the call W3ADO

Similarly, our OSCAR array will be pointed at ATLANTA/FLA, but only 1500W ERP. It will be W3ADO-1

|DE WB4APR in Annapolis MD.|

356. Re: [APRSSIG:5138] Ultimeter 2000/APRS74c/AEA PK12

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Dec 1995 19:33:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951213192847.20591E-100000@greatlakes>
Rendered body type: text/plain

On Wed, 13 Dec 1995, George A. Welte wrote:

> Hi Bob, I have tried everything on God's blue earth to get the 2000 to
> transmit the weather on a remote type set-up using the AEA PK12, & APRS74c.

APR REPLY: You didnt say *what was wrong*...???

- 1) is the ULTIMETER not sending the string once every 5 minutes to the TNC?
- 2) is the AEA not parsing the data?
- 3) is the AEA not transmitting anything?
- 4) is the AEA sending its POSIT in the BText, but no WX data?
- 5) APRS74c should not be involved at all in TRANSMITTING THE DATA
- 6) Is everything above TRANSMITTING the WX just fine, but APRS is not decoding it?
- 7) Are your using the AEA in the UI mode and the ULTIMETER in the PACKET mode?
- 8) Or are you using the AEA in the GPS mode and the ULTIMETER in the continuous mode?
- 9) ETC....

I need to know more than "it doestn work..." TNX.

357. Re: [APRSSIG:5141] METEOR SCATTER TONIGHT!

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Wed, 13 Dec 1995 20:25:27 -0600
To: aprssig@tapr.org
Message-ID: <199512140225.UAA05532@sparc.isl.net>
Rendered body type: text/plain

>In case you forgot, tonight's the big night for the 2 meter and 6 meter
>USA nationwide Meteor Scatter PACKET test. See details in Dec

Early-early results! I have our IBM club station, WD0GNK set up using APRS and transmitting beaming ESE from here in Rochester, MN. I set it up around 4:00 CST while I was at work. To make sure things were working as desired, I had my home packet station turned on to 145.79. I called my wife, KB00ND, had her start the packet program and monitor my packets. All was working as desired. When I got home, we went to the Rochester ARC pizza party. Forgot that I left my home station on. When we got home from there (through the miserable icy-snow), I thought I'd check my email. While I was at it, I kicked up paKet and checked the heard list in the TNC. Wow! Only 8:00pm CST and here are the non-local stations on MH list:

17:06 N7VLR
16:55 N0JVB
16:54 W7KB
16:49 W3ADO (Hi Bob!)
16:46 N2CZF
16:36 VE2JOR
16:22 K1VOW
16:15 NP2IJ
16:01 VA3GOG
15:42 KN4IM
15:40 WB5TKC

Equipment here is an old Azden PC3000 running up to a homemade 4 element J-beam - pointed nearly NORTH! Hm.

Any chance I'm getting these digipeated? Since I didn't have anything logging the packets, I don't know what I really saw. Still, I'm impressed. May fire up APRS tonight and let it run.

73!
Tony Drumm
internet: tdrumm@sparc.isl.net
Packet: aa0sm@wd0gnk.#seml.mn.usa.na

358. PHG and MScatt!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Dec 1995 22:00:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951213215326.21003A-100000@greatlakes>
Rendered body type: text/plain

Even if you do not see a single Meteor Reflection, one thing that 24 hours worth of METEOR SCATTER mode can do for you is to calibrate your PHG curve! (and show you the value of digipeaters!)

My map looks awfully bleak in Meteor mode (DIRECT FILTER IS ON). Instead of 5 pages of posits going out 150 miles in both directions, I see 8 stations within about 15.

BUT! When I hit MAPS-LOTS-POWER, Everyone of those stations intersects

with my PHG circle! And my PHG does NOT go any further. This tells me that my PHG pretty well reflects reality. This is a good test!

If you clear your screen and run MScatt mode you will only see DIRECT signals from onther stations. A great way to infer your radio range...

|DE WB4APR in Annapolis MD.| -----

359. Mscatt False Alarm?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Dec 1995 22:16:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951213221108.21003C-100000@greatlakes>
Rendered body type: text/plain

On Wed, 13 Dec 1995, Tony Drumm wrote:

> the Rochester ARC pizza party. Forgot that I left my home station on.
> When we got home from there (through the miserable icy-snow), I thought
> I'd check my email. While I was at it, I kicked up paKet and checked
> the heard list in the TNC. Wow! Only 8:00pm CST and here are the
> non-local stations on MH list:

APR REPLY: Looks more to me like someone left your local area APRS HF gateway running. Most of those calls are the guys I see on HF every day..

Unless your HEARD Log stores the path, or somehow marks those signals that it heard direct, you have no knowledge of how they got there, hi hi...

If you run APRS in the MScatt mode, then it will ignore ALL packets except for those that it hears DIRECT... It will capture the full packet, plus you can see the proof that they were direfct on the D page.

BUT THE D PAGE IS NOT SAVED IN THE BACKUP FILE!!!
So BEFORE you stop APRS over the next 24 hours, BE SURE TO CHECK the D PAGE before you hit QUIT.

|DE WB4APR in Annapolis MD.| -----

360. Re: [APRSSIG:5144] Re: METEOR SCATTER TONIGHT!

From: "Jerry" <jerdptro@xnet.com>
Date: Wed, 13 Dec 1995 21:41:53 +0000
To: aprssig@tapr.org
Message-ID: <199512140335.VAA04708@flood.xnet.com>
Rendered body type: text/plain

Hi Tony,
I think you picked up activity from HF/VHF gates....calls look very familiar.
N9VHW (chicago 30mtrs<>145.79 gate)
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

361. aprs mscat test

From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>
Date: Wed, 13 Dec 95 22:54:01 EST
To: aprssig@tapr.org
Message-ID: <9512140354.AA15789@abaco.coastalnet.com>
Rendered body type: text/plain

heard wa4ntf around 0200.

running 120w/7ele/heading 240

73's...david

362. Track history LOG

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Dec 1995 23:48:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951213234626.21310D-100000@greatlakes>

Rendered body type: text/plain

Dave Dobbins reports that his PC did NOT save a track history of his airplane trip even though he had LOG ON. I have had mine turned off too..

Is anyone else out there haveing problems with the log NOT automatically saving? ASSUMING YOU HAD LOG TUNRED ON, of course...

|DE WB4APR in Annapolis MD.|

363. MScatt REPORTS FORMAT:

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Dec 1995 23:58:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951213235304.21310F-100000@greatlakes>
Rendered body type: text/plain

Stan Horzepa is going to put together the data on reports. Please report the following!

Your GRID SQ (all 6 chars)
Other Stns Grid Sq (all 6 chars)
Number of packets and times (from your HEARD LOG)
DISTANCE (use cursor and MAPS-PLOTS-RANGE command)

Do NOT report anything under 300 miles, its probably tropo...

|DE WB4APR in Annapolis MD.|

364. Re: [APRSSIG:5141] METEOR SCATTER TONIGHT!

From: BenW5SR@aol.com
Date: Thu, 14 Dec 1995 00:11:38 -0500
To: aprssig@tapr.org
Message-ID: <951214001137_132867759@emout04.mail.aol.com>
Rendered body type: text/plain

Beaming towards the midwest from DM95cf (Amarillo, TX) with 160 watts into 18 elements.

365. Re: [APRSSIG:5135] Re: Version 74E

From: rkramer@cdx.net (Ronald Kramer)
Date: Thu, 14 Dec 1995 07:14:49 GMT
To: aprssig@tapr.org
Message-ID: <30cfcd93.33820809@mail.cdx.net>
Rendered body type: text/plain

On Wed, 13 Dec 1995 13:50:54 -0600 (CST), you wrote:

> I have downloaded the V.74E from two sources - ftp.cdx.net and the
>ProjectX BBS. The former gives me a ZIP file of 1127295 blks and from the
>latter source I get a ZIP file of 1123845. Both packages unzipped allright
>and, when installed seem to work as they should (as far as I can see). Is
>the fact that the package sizes are different significant?
>

> Also, when on line with either of the 'new' 74E prgs, they seem to
>be indicating in the packet info sent out from time to time that I am still
>using 74C .. although the opening screen does indicate 74E .. Should
>this be?

John, at the moment I can not explain it, I downloaded the files from TAPR to my home computer using ws_ftp32, and turned around and uploaded them to my web page on CDX. On my home computer aprs74e.zip is 1127295 bytes also it is that size on TAPR and also on Projectx. I took me a while to check it out as I could not get connected to TAPR when I got home by either FTP or web browser I will check with Barry the webmaster at CDX and see what he has to offer.

Will keep all informed, your host at web site CDX.NET

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

366. Re: [APRSSIG:5130] Re: Grabber

From: jleonard@tbcnet.com (John B. Leonard)
Date: Thu, 14 Dec 1995 06:35:56 -0600
To: aprssig@tapr.org
Message-ID: <199512141235.GAA02338@tbc2.tbcnet.com>
Rendered body type: text/plain

>I ran the Grabber, too!!! Got some really nice GIFs, too....One
recommendation:
>you have to run it in the Super VGA mode or you get the page of posits
>overwriting the screen! I execute GRABBER (file directory) @TRIDENT and that
>took care of it!
>
>How did you do the "times accessed" function on your web page? I want it!
>
>73 de Jim, KU0G
>
>

Hi Jim,

All the credit for the Web page goes to Dave Chesser, KA9NHL. He read a book on how to make a Web page and made one! It was his idea, along with Ed Rogers N9LCI, to get one going.

email addresses:
Dave KA9NHL davidc@tbcnet.com
Ed N9LCI edwardwr@skognet.com

The "times accessed" function seems to be governed by the Internet provider. Again, Dave can tell you more.

URL (the place on the Web to go) for the Northern IL APRS Network Page (NIAN) is:

<http://tbcnet.com/~davidc/aprs.html>

J Barry Leonard HamRadio N9VJQ/EN510W
Subependymoma 1990
DeKalb IL
E-MAIL: jleonard@tbcnet.com

367. METEOR SCATTER

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 13 Dec 95 20:45:46 EST
To: aprssig@tapr.org
Message-ID: <199512141345.IAA12271@gold.interlog.com>
Rendered body type: text/plain

Hi All,
I ran all night from FM03 on 50.620 and didn't hear a thing beaming at 225.

I suspect the snow and freezing rain didn't help.

cheers..mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

368. RE: METEOR SCATTER TONIGHT!

From: james.mollica@compudata.com (JAMES MOLLIKA)
Date: Thu, 14 Dec 95 08:29:00 -0400
To: APRSSIG@tapr.org
Message-ID: <8B6E1FD.01F4015A84.uuout@compudata.com>
Rendered body type: text/plain

BB>In case you forgot, tonight's the big night for the 2 meter and 6 meter
>USA nationwide Meteor Scatter PACKET test. See details in Dec
>QST. For all APRS stations, starting at 0000 UTC 2000 EST

Setup APRS on 145.790 last night before going to work at abt 10:00.
K4ZQX EM75IC: ^34 in the log and on the map at 11:57pm local time.
He was beaming 30 deg. with 160w.

Location here is Williamstown N.J. FM29
If anyone copied my call via APRS MS please let me know.
Beaming 260 deg. with 170w into KLM 22C.

PS 790 is totally crowded here in the Philly to New York area with stations using wide,wide,wide etc. Guess its time to give 6m a try.

73 es Seasons Greetings, Jim N2NRD.

* 1st 2.00 #1439 * N2NRD @ AMSAT.ORG

369. APRS74E and PICO

From: barrettd@crpl.cedar-rapids.lib.ia.us
Date: Thu, 14 Dec 1995 07:28:52 -0600
To: aprssig@tapr.org
Message-ID: <199512141423.IAA10126@sys1.tapr.org>
Rendered body type: text/plain

Bob,

I didn't see anything in the new notes readme file about the pico paket mode. I having it working like I did in earlier APRS versions by setting ELO to on which echo's the Pico's GPS port2 to port1 which the tnc is on. I also set LOC E 3 so it echos the gps string every 30 seconds even though APRS will only send it at the APRS position rate I set.

Now my question what the heck does defining PICO, when setting up 7.4e, do exactly? I read a sig message that said PICO mode would request the GPS posit over the serial port to the TNC.

I've found the only way to make the picopakket work is to do the steps I outlined above. Not griping just trying to clarify things for myself and others. The pico has been just fine with 7.4b to 7.4e

Also are there any tips on using the Ultimiter 2000 with APRS I should know about? I have one on the way and should be in by Friday.

On another note to anyone that knows. What's the deal with texnet, Nexrad radar sites and packet. I grabbed the RMC decoder and I see a .79 site in Davenport, IA that becons on APRS as NEXRAD.

Can I connect to it and grab an RMC? Will APRS one day decode RMS text when one does OPS, Query, NEXRAD [next feature Bob? :-)]

Sorry about all the gabbing I'll sling back to lurk mode now.

PS That was my brother NM0B and I driving around illinois and Iowa last week. Sure like all the Chicago, Rockford Digi's and WX along the way.

barrettd

370. METEOR SCATTER

From: Wb2ngz@aol.com
Date: Thu, 14 Dec 1995 10:44:58 -0500
To: aprssig@tapr.org
Message-ID: <951214104456_90054260@emout05.mail.aol.com>
Rendered body type: text/plain

From 140400Z thru 141400Z I left my APRS station online here in Daytona Beach, Florida on 145.790 MHz looking for meteor scatter reports. The following data was recorded on my "V" screen:

KF0ZH>APRS,GATE*,WIDE/V:@141518z4447.06N/09329.48W_202/000/T025/R000/P000/U-II

Callbook research revealed Scott D. Lebens, KF0ZH, 1261 Limestoone Drive, Skakopee, Minnesota, 55379.

Looks like meteor scatter to me!

Bob, WB2NGZ

371. Re: [APRSSIG:5155] RE: METEOR SCATTER TONIGHT!

From: dwetzel@acs.uswest.com
Date: Thu, 14 Dec 1995 08:52:47 -0600
To: aprssig@tapr.org
Message-ID: <0d03e330@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Meteor Scatter info:

(Although I don't really expect anyone to see me!)

145.79
10 Watts
Omni - 5 db gain

KC7CO-1

Sandy Utah.

372. Copy of bulletin . . . (fwd)

From: horzepa@gdc.com (Stan Horzepa)
Date: Thu, 14 Dec 1995 11:13:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <9512141613.AA10603@mailhost.gdc.com>
Rendered body type: text/plain

Forwarded message:

>From @evax5.gdc.com:sford@arrl.org Thu Dec 14 10:47:57 1995
Message-Id: <9512141547.AA07516@mailhost.gdc.com>
Date: 14 Dec 95 10:46:00 EST
From: sford@arrl.org
Subject: Copy of bulletin . . .
To: "HORZEPA" <HORZEPA@esun19.gdc.com>

Return-Path: <sford@arrl.org>

Received: from gdc.com by evax5.gdc.com with SMTP ; Thu, 14 Dec 95 10:46:51 EST

Received: from mgate.arrl.org by gdc.com (4.1/GDC-eGateway/D-) via SMTP
id AA16454; Thu, 14 Dec 95 10:46:17 EST

Received: from arrl.org by mgate.arrl.org with smtp
(Smail3.1.29.1 #3) id m0tQFmf-000RBBC; Thu, 14 Dec 95 10:41 EST

Received: by arrl.org with Microsoft Mail
id <30D04760@arrl.org>; Thu, 14 Dec 95 10:48:48 EST

From: "Ford, Steve, WB8IMY" <sford@arrl.org>

To: Bob Bruninga <bruninga@nadn.navy.mil>,
"Horzepa, Stan, WA1LOU" <horzepa@evax.gdc.com>,
Emil Pocock <POCOCK@ECSUC.CTSTATEU.EDU>

Subject: Copy of bulletin . . .

Date: Thu, 14 Dec 95 10:50:00 EST

Message-Id: <30D04760@arrl.org>

Encoding: 13 TEXT

X-Mailer: Microsoft Mail V3.0

This is a copy of a message bulletin posted to the AMSAT BBS and
elsewhere this morning . . .

W1AW is participating in the Geminid meteor scatter APRS
test. As of 1600 UTC today, we are monitoring 145.79 MHz,
beaming southwest at a heading of 225 degrees. We'll remain
on frequency through about 1300 UTC December 15.

Hope to hear your "pings!"

73 . . . Steve, WB8IMY
ARRL

--

| | | | |
|----------------------------------|---|----------------------|--------------------|
| Stan Horzepa | ~ | phone: | 203-758-1811 x7369 |
| Technical Writing Supervisor | ~ | email: | horzepa@gdc.com |
| General DataComm (MODEMS 'R' US) | ~ | radio: | WA1LOU |
| P. O. Box 1299 | ~ | packet radio mail: | WA1LOU@N4GAA |
| Middlebury, CT 06762-1299 | ~ | TCP/IP packet radio: | 44.88.4.8 |

~~~~~ What! - Me Worry? ~~~~~

---

### 373. Re: [APRSSIG:5156] APRS74E and PICO

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 14 Dec 1995 12:11:07 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951214120012.1704B-100000@greatlakes>  
Rendered body type: text/plain

On Thu, 14 Dec 1995 barrettd@crpl.cedar-rapids.lib.ia.us wrote:

> I didn't see anything in the new notes readme file about the pico  
> paket mode. I having it working like I did in earlier APRS versions by  
> setting ELO to on which echo's the Pico's GPS port2 to port1 which the tnc  
> is on. I also set LOC E 3 so it echos the gps string every 30 seconds even  
> though APRS will only send it at the APRS position rate I set.  
> Now my question what the heck does defining PICO, when setting up  
> 7.4e, do exactly? I read a sig message that said PICO mode would request the

APR REPLY: OOPS I left it out. As you have configured your PICO, it is sending its data OUT THE RADIO at the rate you established in the PICO and also echoing that to APRS. That works, but it does not give you nor APRS control over your position reporting. It also duplicates the on-air packets since both the TNC and APRS are sending posits. In this mode you are operating in the APRS "SPM" mode.

We worked with PacComm to define another way for it to work in HSP mode where APRS has control over the positions. You tell APRS you have a PICO. Then when you set GPS-HSP mode, APRS will send out a Ctrl-E each time it toggles the HSP switch. This tells the PICO to send APRS a position report (and to reset its POSIT TIMER).

ADVANTAGES: 1) APRS is controlling the position timing.  
a) You can force a posit at ANY TIME with the F8 key  
b) APRS will decay reporting period when you are NOT moving  
2) When the APRS is turned off, or laptop is removed from the vehicle, then the POSIT becons continue, since APRS is no longer periodically toggling the ^E which had been resetting the internal beacon timer.

-----  
|DE WB4APR in Annapolis MD.|\n-----

---

### 374. Grabber.exe

From: jkerns@usit.net (jim kerns)  
Date: Thu, 14 Dec 1995 00:31:11 -0500  
To: aprssig@tapr.org  
Message-ID: <199512141736.MAA27751@use.usit.net>  
Rendered body type: text/plain

Hello Sig Group;  
I have a question. I downloaded off the sig group the Grabber program to grab screens.

I have loaded grabber on occasions and also at other times grpcx. Both seem to grab the aprs screen and save it but I have never been able to save the screen I'm on.

I always use cntrl alt F1 to grab the screen when loaded grpcx. But I always get the logo screen of APRS, once I got the Beacon Screen, I have never been able to grab the screen I'm on, which is the map with calls showing on it.

Anyone know whats wrong, me or the program???? Thanks for any help

Jim, N4PUQ  
Way south of the Greatlakes in Tn.

---

### 375. Re: [APRSSIG:5158] RE: METEOR SCATTER TONIGHT!

From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>  
Date: Thu, 14 Dec 1995 11:40:09 MST-0700  
To: aprssig@tapr.org  
Message-ID: <185673223F2@ceis.uhcolorado.edu>  
Rendered body type: text/plain

KB1TX - in zero land, Aurora CO  
N3943.940, W10456.396, 5 watts, 3db Omni  
200 feet above average terrain at about 5656 feet

I doubt you will hear me, but what the heck!

NOTE:  
Apparently I am the only station "up" on APRS on 5.79 at this time in the metro Denver area. No "wides". I am "relay" and I "UNPROTO" digi through W0TX. System is on except when wife (N1DUZ) is using computer for non Ham software. So far I have not been able to keep APRS running reliably in foreground or background in Windows 3.1 on the home office P5 system. As soon as I fix a radio - TNC cable the APRS will be up permanently on a second computer and an old ICOM running 10 watts into a "venttenna" on a plumbing vent on the top of the roof. No outside antennas allowed in the tract so "stealth" is in order.  
Art Smith  
Facilities Engineer, Engineering Services  
University Hospital, Denver, Colorado, USA  
Voice - (303)270-3757 FAX - (303)270-4710

---

### 376. Re: [APRSSIG:5161] Grabber.exe

From: w5rkn@amsat.org (Ronald G. Parsons)  
Date: Thu, 14 Dec 1995 12:42:33 -0600  
To: aprssig@tapr.org  
Message-ID: <v02130500acf62007e3d9@[204.181.160.31]>  
Rendered body type: text/plain

>  
>Hello Sig Group;  
>I have a question. I downloaded off the sig group the Grabber program to  
>grab screens.  
>  
>I have loaded grabber on occasions and also at other times grpcx. Both  
>seem to grab  
>the aprs screen and save it but I have never been able to save the screen  
>I'm on.  
>I always use cntrl alt F1 to grab the screen when loaded grpcx. But I  
>always get the logo screen of APRS, once I got the Beacon Screen, I have  
>never been able to grab the screen I'm on, which is the map with calls  
>showing on it.  
>Anyone know whats wrong, me or the program???? Thanks for any help  
>  
>Jim, N4PUQ  
>Way south of the Greatlakes in Tn.

Exactly the same thing happens to me. Had the map displayed, "grabbed" a  
PCX, and it was the APRtrak sign-on screen.

Ron W5RKN

also:  
rparsons@bga.com

---

### 377. Dropped from APRSSIG

From: Jerry Wyatt <jwyatt@lineng.ipc.amex-trs.com>  
Date: Thu, 14 Dec 95 11:45:57 -0700  
To: aprssig@tapr.org  
Message-ID: <9512141845.AA51356@lineng.ipc.amex-trs.com>  
Rendered body type: text/plain

Seems I got dropped from the APRS SIG.

Can someone remind me how to 'subscribe' again!

Later  
\*jw\*

---

### 378. still no answer

From: jleonard@tbcnet.com (John B. Leonard)  
Date: Thu, 14 Dec 1995 13:04:34 -0600  
To: aprssig@tapr.org  
Message-ID: <199512141904.NAA06597@tbc2.tbcnet.com>  
Rendered body type: text/plain

Dan, I'm still getting no answer about 1/2 the time I try to access the  
754-4400 no.

jbl  
J Barry Leonard HamRadio N9VJQ/EN510W  
Subependymoma 1990  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

---

### 379. Re: [APRSSIG:5161] Grabber.exe

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 14 Dec 1995 14:08:57 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951214140356.4239A-100000@greatlakes>  
Rendered body type: text/plain

On Thu, 14 Dec 1995, jim kerns wrote:

>  
> I have loaded grabber on occasions and also at other times grpcx. Both  
> I always use cntrl alt F1 to grab the screen when loaded grpcx. But I  
> always get the logo screen of APRS, once I got the Beacon Screen, I have

> never been able to grab the screen I'm on, which is the map with calls

APR REPLY: APRS uses dual screens. It uses the the default screen for all text and uses the alternate screen for the map.

To save an APRS screen, simply run APRS from windows, press the PRINT-SCREEN KEY and then exit APRS. When you bring up PAINTBRUSH, you will find the APRS screen on your clipboard. Load it and have fun!

-----  
|DE WB4APR in Annapolis MD.|  
-----

---

### 380. METEOR SCATTER 2

From: james.mollica@compudata.com (JAMES MOLLICA)  
Date: Thu, 14 Dec 95 13:19:00 -0400  
To: aprssig@tapr.org  
Message-ID: <8B6E31F.01F4015BFA.uuout@compudata.com>  
Rendered body type: text/plain

Stations copied on 145.790 via MS into FM29 South Jersey.

DEC.14  
0457Z K4ZQX EM75IC:^34  
1437Z KC8ER EN91IQ:^01

FTP MSS0F42F.ZIP from ftp.funet.fi in the pub/ham/vhf-work dir.  
Log in as anonymous and use your email address as the password.

Excellent for MS work. The az/el beam heading charts alone  
are worth the download!

73 es gl, Jim N2NRD.

\* 1st 2.00 #1439 \* N2NRD @ AMSAT.ORG

---

### 381. Re: [APRSSIG:5163] Re: Grabber.exe

From: William Richarz <wricharz@ix.netcom.com>  
Date: Thu, 14 Dec 1995 14:41:15 -0500  
To: aprssig@tapr.org  
Message-ID: <199512141941.LAA16512@ix2.ix.netcom.com>  
Rendered body type: text/plain

At 12:51 PM 12/14/95 -0600, you wrote:

>>  
>>Hello Sig Group;  
>>I have a question. I downloaded off the sig group the Grabber program to  
>>grab screens.  
>>  
>>I have loaded grabber on occassions and also at other times grpcx. Both  
>>seem to grab  
>>the aprs screen and save it but I have never been able to save the screen  
>>I'm on.  
>>I always use cntrl alt F1 to grab the screen when loaded grpcx. But I  
>>always get the logo screen of APRS, once I got the Beacon Screen, I have  
>>never been able to grab the screen I'm on, which is the map with calls  
>>showing on it.  
>>Anyone know whats wrong, me or the program???? Thanks for any help  
>>  
>>Jim, N4PUQ  
>>Way south of the Greatlakes in Tn.  
>  
>Exactly the same thing happens to me. Had the map displayed, "grabbed" a  
>PCX, and it was the APRtrak sign-on screen.  
>  
>  
>Ron W5RKN

Hmmmmh, works for me, but I used the suggested HOTKEY <Control=>, and it  
grabs the screen I want with no prolem.  
Bill Richarz <WA4VAF>  
wricharz@ix.netcom.com

---

### 382. Re: MScatt REPORTS

From: "Syd F.Chiswell" <w2ic@buffnet.net>  
Date: Thu, 14 Dec 1995 14:26:56 -0600 (CST)

To: aprssig@tapr.org  
Message-ID: <9512141528.aa24556@buffnet1.buffnet.net>  
Rendered body type: text/plain  
  
My grid FN02XA  
K4ZQX EM75IC  
@ 12:42 utc  
2 pkts EM75IC: ^34

---

### 383. Re: [APRSSIG:5157] METEOR SCATTER

From: "Jerry" <jerdptro@xnet.com>  
Date: Thu, 14 Dec 1995 14:46:08 +0000  
To: aprssig@tapr.org  
Message-ID: <199512142039.OAA11793@flood.xnet.com>  
Rendered body type: text/plain

I believe you copied a gate.....  
Jerry  
N9VHW  
Jerry Di Pietro  
N9VHW  
Streamwood, IL  
jerdptro@xnet.com

---

### 384. GRABBER

From: ke4eer@ro.com (William Nolle)  
Date: Thu, 14 Dec 1995 15:04:35  
To: aprssig@tapr.org  
Message-ID: <199512142213.QAA04039@sh1.ro.com>  
Rendered body type: text/plain

Those that downloaded the Grabber software please read the doc's that came with the software. It's really a very easy to use program and i don't want to spend too much time taking up APRS SIG bandwidth to get into this program since it's only indirectly related to APRS. DON'T try to run anything other than the Grabber program, capture the screen THEN CONVERT it to another format.

Bill KE4EER  
ke4eer@ro.com

---

### 385. Re: [APRSSIG:5149] Track history LOG

From: n2czf@gate.net  
Date: Thu, 14 Dec 1995 16:08:29 -0500  
To: aprssig@tapr.org  
Message-ID: <199512142108.QAA29284@osceola.gate.net>  
Rendered body type: text/plain

Me too!! in version 7.4b

73's De Rich N2CZF  
n2czf@gate.net  
Jupiter Farms Florida

---

### 386. Meteor scatter test

From: "James, Edward A" 2161 M" <EAJAMES@sandia.gov>  
Date: 14 Dec 1995 14:18:05 -0700  
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)  
Message-ID: <"03DC430D0948D006"/c=US/admd= /prmd=USD0E/o=SNL/ou=msmail/s=EAJAMES/"@MHS>  
Rendered body type: text/plain

KA8JMW in Albuquerque NM  
160W with 15db gain antenna  
good luck  
Ed

---

### 387. Ltrack Lines from KPC-3

From: Doug Woodruff <102256.1216@compuserve.com>  
Date: 14 Dec 95 19:15:51 EST  
To: TAPR E-mail Forum <aprssig@tapr.org>  
Message-ID: <951215001551\_102256.1216\_BHB27-2@CompuServe.COM>  
Rendered body type: text/plain

Bob,

How do I configure the downloaded "Ltrack" lines from my KPC-3 so that APRS will put a symbol on the screen and plot their progression when playing the file as a track history? Have tried several ways but not successful yet.

The data is there but APRS doesn't want to plot any symbol for the positions. I have tried my callsign with a "-9" to make a car but seem to be missing an intermediate character somewhere. What is the format which must precede the coordinates for APRS to plot a symbol on the map?

Thanks,

Doug, KM4HY

---

### 388. Eagle AccuNav Sport GPS Receiver

From: Doug Woodruff <102256.1216@compuserve.com>  
Date: 14 Dec 95 19:15:50 EST  
To: TAPR E-mail Forum <aprssig@tapr.org>  
Message-ID: <951215001549\_102256.1216\_BHB27-1@CompuServe.COM>  
Rendered body type: text/plain

Just a quick note to mention a GPS unit which has not gotten any press here on the SIG.

I have used a Eagle AccuNav Sport (\$384.00 from Bass Pro Shops) for the past month. This unit uses a Rockwell five-parallel-channel engine which is extremely fast and more stable than the single-channel sampling Garmins. I use the unit from inside the car (the antenna on the dash) and have not had problems losing lock in heavy rain, going under overpasses or through forested areas. It is plug-n-play with a KPC-3 (the \$18 interface cable terminates in bare wires so you have to put an appropriate connector on), needs no initialization strings to commence sending NMEA-0183 data and will operate on any DC voltage from 6-35 VDC.

The unit is somewhat larger than the Garmin but seems to operate more reliably than the Garmin and is more sensitive. The antenna is connected with a two-point hinge and can be removed to accommodate a remote mounting kit (\$22). This eliminates the problems the Garmins have with the weak antenna connector loosening and causing intermittent contacts.

It will, of course, accommodate a differential receiver. Actually, it will accommodate two different types of differential receivers.

The unit outputs GLL and RMC data which APRS decodes but also outputs three other strings, including the one used for auto-pilot steering of boats.

In short, I am a very impressed and proud owner!

FYI,  
Doug, KM4HY

---

### 389. Re: [APRSSIG:5157] METEOR SCATTER

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Fri, 15 Dec 1995 00:27:39 +0000 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951215002403.8598A-100000@pinegov>  
Rendered body type: text/plain

On Thu, 14 Dec 1995 Wb2ngz@aol.com wrote:

> From 140400Z thru 141400Z I left my APRS station online here in Daytona  
> Beach, Florida on 145.790 MHz looking for meteor scatter reports. The  
> following data was recorded on my "V" screen:  
>  
> KF0ZH>APRS,GATE\*,WIDE/V:@141518z4447.06N/09329.48W\_202/000/T025/R000/P000/U-II  
>  
>  
> Callbook research revealed Scott D. Lebens, KF0ZH, 1261 Limestoone Drive,  
> Skakopee, Minnesota, 55379.  
> Looks like meteor scatter to me!  
>  
> Bob, WB2NGZ  
>  
>

I hate to burst your bubble Bob, but the above line was clearly received via tropo skip from the nearest GATE, probably in Orlando but possibly WB90ML in Lakeland, or even me in St. Pete. KF0ZH is a regular HF WX station and the \* after GATE indicates the origin transmitter to you.

An MSCAT signal will consist only of a callsign and grid square.

73 and get a wide up so we can connect across the state!

Kevin KD4UYR



---

### 390. METEOR SCATTER

From: Wb2ngz@aol.com  
Date: Thu, 14 Dec 1995 19:39:11 -0500  
To: aprssig@tapr.org  
Message-ID: <951214193909\_90508060@emout06.mail.aol.com>  
Rendered body type: text/plain

Subj: METEOR SCATTER  
Date: 12/14/95  
To: aprssig@tapr.org

From 140400Z thru 141400Z I left my APRS station online here in Daytona Beach, Florida on 145.790 MHz looking for meteor scatter reports. The following data was recorded on my "V" screen:

KF0ZH>APRS,GATE\*,WIDE/V:@141518z4447.06N/09329.48W\_202/000/T025/R000/P000/U-II

Callbook research revealed Scott D. Lebens, KF0ZH, 1261 Limestoone Drive, Skakopee, Minnesota, 55379.

Looks like meteor scatter to me!

Bob, WB2NGZ

---

Well, this will be a first...An APRS SIG contributor is going to flame HIMSELF! The dummy who wrote the message above (Me) didn't notice the little \* after the word GATE in the received data line above which means that I copied the alleged meteor scatter from a GATE station in Orlando. Thanks to Rich, N4CZF, for bringing my stupidity to my attention. Oh well, wait til next year!!

Regards...Bob, WB2NGZ

---

### 391. MIM Module

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 14 Dec 1995 19:43:23 -0500 (EST)  
To: aprssig@tapr.org  
Cc: amsat-bb@amsat.org  
Message-ID: <Pine.SUN.3.91.951214192615.9247B-100000@greatlakes>  
Rendered body type: text/plain

The Micro-Interface-Module is a complete GPS position reporting and telemetry transmitting system on a single chip. It accepts 5 analog inputs, 8 bit inputs, and a NMEA string, and it outputs AX.25 packet tones and a PTT signal. Connect it to any transmitter and you have a device that can not only be tracked by APRS, but who's telemetry can also be displayed by APRS. Its small size (match box) and low power, make it easy to build small tracking applications.

We have just added an extended low-power mode. In this mode, the chip sleeps while only drawing 0.015 ma. It can be programmed to wake up periodically, turn on the GPS for 10 minutes, get a fix, and go back to sleep. It can wake up at a separate periodicity to transmit its last position and current telemetry as needed.

In this mode, you can build a package the size of a tall beer can which will update its position once a day, and report its last position and current status every hour, FOR A YEAR! This is using 6 standard ALKALINE D cells. LONGER on Lithiums! Just think of the applications!

Prototypes will be available in a few weeks....

-----  
|DE WB4APR in Annapolis MD.|  
-----

---

### 392. help getting started

From: ldajz@epix.net  
Date: Thu, 14 Dec 1995 20:00:06 +0000  
To: aprssig@tapr.org  
Message-ID: <199512150059.TAA17116@epix.net>  
Rendered body type: text/plain

Hi and thanks for reading...

A few of us in NE PA are really trying to get VHF APRS rolling. We are all situated around Scranton, with three of us in the vally, but

three others at better elevations. We seem to have made progress between us, but can't seem to get reliable postings sent throughout our system. In other words, the well situated stations hear all of the juicy APRS stations from CT to MDC, but don't seem to send them to us "in the valley".

We have decided among us, that it is time to get set up on a mountain top repeater site, but with the bad wx, it may be Spring before that happens. So as for now, does anyone have advise as how to set the TNC's at the favorable locations (denoted as A,B, & C) and the valley TNC's (denoted as X,Y, & Z). Just for the record, A,B, & C hear X,Y,Z,& each other, but only X can hear and transmit to A,B,C,Y,& Z.

Mountains riddle this area and seem to be the root evil to our problem. I know this is quite a paradox, but any suggestions would be appreciated, even though it may have already been attempted.

X just happens to be me... Al, N3KAE ldajz@epix.net

---

### 393. Re: [APRSSIG:5174] Ltrack Lines from KPC-3

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 14 Dec 1995 20:52:23 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951214205018.9589A-100000@greatlakes>  
Rendered body type: text/plain

On Thu, 14 Dec 1995, Doug Woodruff wrote:

>  
> How do I configure the downloaded "Ltrack" lines from my KPC-3 so that  
> APRS will put a symbol on the screen and plot their progression when  
> playing the file as a track history?

I donno the exact format that is in the Ltrack, but if it is the raw NMEA gps strings, then it needs to be put in to APRS format. Use the GPSToHST.bas program.

You may need to modify the program slightly to match your exact format, but it should give you a starting point.

-----  
|DE WB4APR in Annapolis MD.|  
-----

---

### 394. Re: [APRSSIG:5179] help getting started

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 14 Dec 1995 21:01:15 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951214205513.9589B-100000@greatlakes>  
Rendered body type: text/plain

On Thu, 14 Dec 1995 ldajz@epix.net wrote:

> between us, but can't seem to get reliable postings sent throughout  
> our system.

APR REPLY: This is know as the RELAY-RELAY problem. Everyone digipeats everyone elses packets and ANYONE that hears 2 other stations equally, will NEVER hear a 3rd distant station because the other two digi at the SAME time and colide at your station. YOU NEED A SINGLE DIGI that all can hear and you should address that digi with something other than WIDE!

> In other words, the well situated stations hear all of  
> the juicy APRS stations from CT to MDC, but don't seem to send them  
> to us "in the valley".

APR REPLY: Until the snow melts and you put up a real digi, have ONE of the best hillside stations set his ALIAS to WIDE. Then some of the distnat stuff that is addressed via WIDE may be digipeated by him down into the valley... Also, if anyone has a KAM, have him tune in 10.151 LSB and set his MYGate call to GATE, and he will then send out all the HF stuff into your valley too... (via the VHF side of his KAM or AEA-2232 or PK-900)...

-----  
|DE WB4APR in Annapolis MD.|  
-----

---

### 395. MS report

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 14 Dec 1995 21:14:32 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951214210126.9589C-100000@greatlakes>  
Rendered body type: text/plain

Nothing, nadda, zip. 40 foot dish running 25 KW ERP pointed from Maryland towards Chicago shows no receive hits.

Oscar array pointed at Atlanta, Florida, showed no hits, but was only on about 50% of the time due to other needs for the PC.

#### COMMENTS:

\* I think we got far fewer participants this time than last..

\* Being in MScatt mode and not seeing anything on my screen but 3 locals instead of the usual 80 stations over 5 states seemed kinda lonely...

\* Conversely, you can set CONTROLS-DIRECT mode anytime you want (over night is fun) and see DX, band openings, meteor reflections any time you want! The probabilities will just be less, because no one is pointed RIGHT AT YOU with a 13 dB antenna. And their packets will be about 3 times longer... BUT THERE WILL STILL BE thousands of packets out there on 145.79, most of which will contain a POSIT! With DIRECT mode on, your APRS will ONLY capture those heard DIRECT, and filter out all other stuff!

You may be suprised at what you hear, if you can handle the withdrawal symptoms of NOT seeing all that other activity!

---

### 396. Re: [APRSSIG:5157] METEOR SCATTER

From: "Sam Nabkey" <snabkey@wingsbbs.com>  
Date: Thu, 14 Dec 1995 21:55:59 -0500  
To: aprssig@tapr.org  
Message-ID: <199512150256.UAA18273@sys1.tapr.org>  
Rendered body type: text/plain

On 14 Dec 95 at 9:47, Wb2ngz@aol.com wrote:

> Date: Thu, 14 Dec 1995 09:47:52 -0600 (CST)  
> Reply-to: aprssig@tapr.org  
> From: Wb2ngz@aol.com  
> To: aprssig@tapr.org  
> Subject: [APRSSIG:5157] METEOR SCATTER

> From 140400Z thru 141400Z I left my APRS station online here in Daytona  
> Beach, Florida on 145.790 MHz looking for meteor scatter reports. The  
> following data was recorded on my "V" screen:  
>  
> KF0ZH>APRS,GATE\*,WIDE/V:@141518z4447.06N/09329.48W\_202/000/T025/R000/P000/U-II

Note the star here -----^

>  
> Callbook research revealed Scott D. Lebens, KF0ZH, 1261 Limestoone Drive,  
> Skakopee, Minnesota, 55379.  
> Looks like meteor scatter to me!

REPLY: Looks like it came from your local GATE station to me...

> Bob, WB2NGZ  
>

>

---

Samuel T. Nabkey - WJ8T

{snabkey@wingsbbs.com}

---

### 397. GPS, Altitude and general thoughts.

From: KD4EMI@aol.com  
Date: Thu, 14 Dec 1995 22:01:24 -0500  
To: aprssig@tapr.org  
Cc: DMOBLEY@encore.com, 0004818186@mcimail.com  
Message-ID: <951214220042\_54641008@mail04.mail.aol.com>  
Rendered body type: text/plain

I have been operating on APRS for about 1 year. The station at home is on nearly 24 hours a day. I also operate mobile tracker that consists of a Garmin 45 and KPC3.

Here is the reason why I write. In the year that I have had my garmin, I dont think Ive EVER got a accurate altitude reading. EVEN if the accuracy on the sat screen is 50 feet. (which it has been). The accuracy on the +/- altitude screen is less than 100 feet sometimes and yet the darn thing never really seems to come close. Now, that really doesnt bother me except when I got together with a few other aprs guy and we held our GPS'S next to each other, I mentioned the altitude. HIS Magellen (5000D) I think it was) was fairly accurate...Actually, it was really accurate and changed perfectly when we went up ramps and things on the highway.

I mentioned it to him, and he stated that he thought this was normal operation for GPS'S and was suprised at my reading.

Now...whats the deal..How do I know for example that the LOCATION is even close. ( I CAN GUESS BASED ON THE MOBILES PLOT THAT IT IS OK THOUGH-But thats a hell of a way to verify it)

What has been the experience with the other Garmin and other GPS users. Have you experienced this. Is there a upgrade that Garmin has done...? What strange anomaly is this ?  
73 Mike KD4EMI@AOL.COM

---

### 398. Re: MIM Module !!

From: KD4EMI@aol.com  
Date: Thu, 14 Dec 1995 22:08:38 -0500  
To: aprssig@tapr.org  
Message-ID: <951214220836\_90643372@emout05.mail.aol.com>  
Rendered body type: text/plain

I WANT IT I WANT IT I WANT IT !!!  
Looks like the GPS in the Radio controlled BLIMP is going to happen!  
Lets launch a BALLOON !!

FOX HUNTS ! Keep track of your wife (or husband !)

Put one on your dog...  
Put one on your bike...  
Put one on your kids...

Im sorry I just was temporarily insane. Thanks I feel much better now.  
Mike KD4EMI@AOL.COM

---

### 399. Re: [APRSSIG:5174] Ltrack Lines from KPC-3

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Thu, 14 Dec 1995 21:59:08 -0600  
To: 102256.1216@compuserve.com  
Cc: aprssig@tapr.org  
Message-ID: <v02130501acf6a04e8951@[199.1.11.148]>  
Rendered body type: text/plain

>Bob,  
>

> How do I configure the downloaded "Ltrack" lines from my KPC-3 so that

Is your data from the ltrack also in backwards order ie the top of the file list is the newest data?

That caused a small problem with MACAPRS this I use and I had to use a text eritor to swap the data to make it work.

-----

There should be a basic file in the docs to convert NMEA to hst.

GPStohst

```
PRINT "This program takes a RAW PROCOMM download file from a GPS receiver"
PRINT "in NMEA-0183 format and formats it to look like an APRS packet beacon"
PRINT "It looks for the GGA and VTG sentences."
PRINT
```

```
PRINT "For LORAN or other sentences GLL or RMC, you will have to rewrite"
PRINT "Several lines in the program..."
PRINT
INPUT "Enter file name of raw GPS data"; FI$
INPUT "Select NMEA sentence to use RMC or GGA"; NMEA$
INPUT "Enter name of OUTPUT file for APRS compatible TRACK HISTORY"; FO$
INPUT "Enter callsign to be used with the raw data"; CALL$
INPUT "Enter two digit DAY of data"; Day
```

73 from another Bob who is not close to Annapolis MD

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

#### 400. APRS hint #2346.5

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 14 Dec 1995 23:00:45 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951214225530.9833C-100000@greatlakes>  
Rendered body type: text/plain

In going back and forth between other applications and APRS during last nights meteor shower, I was constantly using the AUTO-LOAD-BACKUP option.

Though I would remind everyone about it, since I dont have any idea where it might be covered in the "docs"..

You may start up aprs with a "/" at the end and it will load the BACKUP file immediately...

COROLLARY: Since I also can never remember the "version-number-of-the-week" I always copy the latest APRSxx to APRS.exe so that all I ever have to do to start APRS is type APRS/b...

-----  
|DE WB4APR in Annapolis MD.|  
-----

---

#### 401. Re: [APRSSIG:5162] RE: METEOR SCATTER TONIGHT!

From: geh@aip.org (gordon\_hardman)  
Date: Thu, 14 Dec 95 23:15:37 EST  
To: aprssig@tapr.org  
Message-ID: <9512150415.AA14080@aip.org>  
Rendered body type: text/plain

Art,

I am at least experimenting with aprs, listening on '79. I run a couple watts into a 4el verical on the roof, pointed southeast. AEA DSP2232, and I do have a brick, normally off except for preamp. Using APRS 69, and struggling to figure it all out! Want to add HF. Also need to get latest version of APRS.

Gordon Hardman KE3D  
Backcountry Technology  
4002.90N/10517.55W/5500ft  
Boulder, CO  
<geh@aip.org>

---

#### 402. Re: [APRSSIG:5146] Mscatt False Alarm?

From: tdrumm@sparc.isl.net (Tony Drumm)  
Date: Thu, 14 Dec 1995 21:51:41 -0600  
To: aprssig@tapr.org  
Message-ID: <199512150352.VAA12675@sparc.isl.net>  
Rendered body type: text/plain

>APR REPLY: Looks more to me like someone left your local area APRS HF  
>gateway running. Most of those calls are the guys I see on HF every day..  
>

Unfortunately, looks like you're right. The ice storm did a number on my antenna so I saw nothing over night. (SWR at 5:1 - normally close to 1:1 at that freq.) More bad news - WD0GNK got nothing other than my station when I was had APRS running. I've had a bad feeling that it was somehow deaf - I've not been able to receive N0QVC just 30-40 miles

away when pointed at it. I receive that station at home with a much more modest station with no problem. So, it's not working like it did back in the August test. But I was running out through a brick so maybe something got out. ?? Wait and see.

I ran my station tonight with paKet for a while, logging the packets and saw W3ADO just digipeated here like you implied. Well, I hope we can get the GNK station in better shape by the next test.

73.  
Tony Drumm  
internet: tdrumm@sparc.isl.net  
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

---

### 403. Track history QUESTION?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 14 Dec 1995 23:19:00 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951214230048.9833D-100000@greatlakes>  
Rendered body type: text/plain

Here I sit waiting for a mobile so I can see if the auto-save-track history is really working..

While pondering this, I am also ready to make a change in the way TK-HSTS are saved. If you OBJECT to this change, lemme know. Otherwise I will assume you agree with the change...

EXISTING LOGIC: Everytime APRS saves a track history, it FIRST saves a posit for all of the stations currently in the P-LIST. The logic was, that each track history file would then "stand alone" as a capture of not only the moving station, but also all of the other stations participating in the event.

THE DOWN SIDE: In our area with a full PLIST at all times, this stuffs 80 FIXED posits into every track history file (which only holds 199). NOT only is this wasteful of disk space, but it also requires manual editing out of these fixed stations when you go to combine multiple track history files.

PROPOSED ACTION: I will delete the automatic dump of the P-LIST into every track history file. If you want to see who all was on the P-LIST during an event, LOAD THE BACKUP file for the same time period. If you want a single summary file for the whole event, you can use an editor to CUT out the POSITS from the BK file and PASTE them into the TK HISTORY file...

FINAL NOTE: Remember, the track history will only be saved if:  
(1) the CONTROLS-LOG function is ON  
\*AND\*  
(2) the track history memory fills up to 199 entries  
----OR----  
(3) you do a FILES-SAVE command AND give a name \*other than\* BACKUP.

P.S. Three stations have indicated that APRS did NOT save a HST file when expected... but it is impossible to know what was the exact condition of their settings when this occurred. CAN ANYONE CONFIRM THAT RECENT APRS versions HAVE SAVED A TRACK HISTORY AUTOMATICALLY?

I don't want to go "fix" it if it ain't broke!

-----  
|DE WB4APR in Annapolis MD.|\n-----

---

### 404. Re: MIM Module

From: vinctesr@moon.flanet.com (Vince)  
Date: Fri, 15 Dec 1995 00:18:42 -0500  
To: Bob Bruninga <bruninga@nadn.navy.mil>, aprssig@tapr.org  
Message-ID: <m0tQSPz-000oLDC@flanet.com>  
Rendered body type: text/plain

At 07:43 PM 12/14/95 -0500, Bob Bruninga wrote:  
>The Micro-Interface-Module is a complete GPS position reporting and  
>telemetry transmitting system on a single chip. It accepts 5 analog  
>inputs, 8 bit inputs, and a NMEA string, and it outputs AX.25 packet  
>tones and a PTT signal. Connect it to any transmitter and you have a  
>device that can not only be tracked by APRS, but who's telemetry can also  
>be displayed by APRS. Its small size (match box) and low power, make it  
>easy to build small tracking applications.

>  
>We have just added an extended low-power mode. In this mode, the chip  
>sleeps while only drawing 0.015 ma. It can be programmed to wake up  
>periodically, turn on the GPS for 10 minutes, get a fix, and go back to  
>sleep. It can wake up at a separate periodicity to transmit its  
>last position and current telemetry as needed.  
>  
> In this mode, you can build a package the size of a tall beer can  
>which will update its position once a day, and report its last position  
>and current status every hour, FOR A YEAR! This is using 6 standard  
>ALKALINE D cells. LONGER on Lithiums! Just think of the applications!  
>  
>Prototypes will be available in a few weeks....  
>  
>-----  
>|DE WB4APR in Annapolis MD.|  
>-----  
>  
>  
>  
>

Where can I get more info on this? I am trying to build a GPS reporting system that will fit into a high performance model rocket.

About how much will it cost?

Could I obtain(purchase) a sample for beta testing and design?

Is there any documentation available now?

Vince  
KD7AI

---

## 405. Re: [APRSSIG:5038] Geminids Test Announcement

From: dwetzel@acs.uswest.com  
Date: Sun, 10 Dec 1995 06:51:56 -0600  
To: aprssig@tapr.org  
Message-ID: <0d0fcf60@acmospgw1.mnet.uswest.com>  
Rendered body type: text/plain

Where are the continental divisions, Stan?

Reply Separator

---

Subject: [APRSSIG:5038] Geminids Test Announcement  
Author: aprssig@tapr.org at Internet-Mail  
Date: 12/9/95 11:04 AM

Geminids Packet Meteor Scatter Test

Date: December 14, 1995  
Time: 0000-2400 UTC  
Freq: 50.62 MHz, 145.79 MHz (if available in your area)  
Mode: 1200 baud AX.25 packet

Sending Packets

According to the plan, each quadrant of the continent will take turns transmitting for 15-second periods of each minute as follows:

Northeast stations transmit for the first 15-second period of the minute (seconds 0 to 14), Southeast stations transmit for the second 15-second period of each minute (seconds 15 to 29), Southwest stations transmit for the third 15-second period of the minute (seconds 30 to 44), and Northwest stations transmit for the fourth 15-second period of each minute (seconds 45 to 60).

There are two ways to transmit your meteor scatter packets. Use the meteor scatter mode of APRS. This mode allows your computer to automatically send packets and plot received packets on a map.

The second way is to insert your grid square in the T0: address field of your TNC by using the UNPROTO command and then use the Converse Mode to send packets.

If you live in any area that straddles a quadrant, you must plan carefully and coordinate your transmissions with other local participants. Make plans not only to minimize interference to other locals, but to be sure that you are transmitting at a time when your

intended target is scheduled to listen.

By the way, only stations running at least 100 watts into a beam antenna should transmit. Anything less is unlikely to propagate packets via meteor scatter and just causes unnecessary QRM.

#### Receiving Packets

Even if your station is not a powerhouse, you can still participate by monitoring the test. If you are running APRS, each received grid square packet is plotted on a map and entered into the APRS Heard log. If you are not running APRS, I recommend setting the clock in your TNC and enabling the time-stamping function so that each monitored packet displays the date and time of its reception. This makes logging received packets easy and permits unattended monitoring and logging when you are unable to sit in front of your computer.

During the reception period, watch for stations sending packets containing grid squares. If you have a grid square map handy, make a note of the grid squares that are 500 to 1200 miles from your QTH and when you receive a grid square from one of those, you know you have hit pay dirt. If you are running 100 watts or more into a beam antenna, you can try and make a connection with that station, too!

#### Reporting Packets

After the test, send your reports contain the following information:

Your call sign  
Your state/province  
Your grid square  
Your effective radiated power (if you transmitted during the test)  
Call sign of received/connected station  
Grid square of received/connected station  
Time of reception/connection in UTC and number of received packets  
Mileage between your and received/connected station

Send your reports by mail to:

Stan Horzepa, WA1LOU  
One Glen Ave.  
Wolcott, CT 06716-1442

or electronically to:

horzepa@gdc.com via Internet email  
70645,247 via Compuserve  
Stand1up via America Online

--  
Stan Horzepa                               ~   phone:               203-758-1811 x7369  
Technical Writing Supervisor       ~   email:               horzepa@gdc.com  
General DataComm (MODEMS 'R' US) ~   radio:               WA1LOU  
P. O. Box 1299                       ~   packet radio mail:   WA1LOU@N4GAA  
Middlebury, CT 06762-1299       ~   TCP/IP packet radio:   44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

406. Evil DOZ behavior in 74e

From: dwetzel@acs.uswest.com
Date: Thu, 14 Dec 1995 22:34:12 -0600
To: aprssig@tapr.org
Message-ID: <0d100030@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Did anyone else try to run 74e DOZed in Windows during the MS test? I consistently get an error 5 bomb when the quadrant timer initiates a transmission in MS mode. Don't see the problem when NOT in Scatter, and I haven't done any research in Space to see if the same effect occurs.

Of course, I also managed to run the whole test period with the receiver volume turned down low enough to never even see local packets, so there is a SLIGHT possibility that there's a head space problem in the shack as well....

Oh, well. Only another eight and a half months till the Perseids.

Doug Wetzel

407. Re: [APRSSIG:5190] Track history QUESTION?

From: mwalker@interlog.com (Mike Walker)
Date: Thu, 14 Dec 95 20:31:20 EST
To: aprssig@tapr.org
Cc: ruthhull@kantronics.com
Message-ID: <199512151331.IAA26813@gold.interlog.com>
Rendered body type: text/plain

On Thu, 14 Dec 1995 22:43:55 -0600 (CST) you wrote:

>P.S. Three stations have indicated that APRS did NOT save a HST file
>when expected... but it is impossible to know what was the exact
>condition of their settings when this occurred. CAN ANYONE CONFIRM THAT
>RECENT APRS versions HAVE SAVED A TRACK HISTORY AUTOMATICALLY?
>

Hi Bob,

I'm running 74C, and I thought I was going nuts. I travelled through all the heavy snow from north of Toronto to North Bay on Sunday (last) and noticed that I didn't keep the track. I'm now up to the 74E and will check closely today as I drive to work.

I'll let you know.

BTW you may want to add in your KPC file that if you change a KPC-3 from stand alone mode to HSP mode, that you must delete the the LTP fields, or it will continue to transmit the last value in the field. In my case, it was NO data, and I was transmitting commas. If the LTP values have old posits, you will keep transmitting them as well as the new beacon text.

It would be nice if the KPC-3 would only use these values if the INTF is set to GPS. Normal operation is when it is set to TERM. (Do you have contact with Katronics?)

cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

408. Re: [APRSSIG:5179] help getting started

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Fri, 15 Dec 1995 05:57:12 -0800
To: aprssig@tapr.org
Message-ID: <199512151357.FAA16320@ix5.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>

>Hi and thanks for reading...

>

>A few of us in NE PA are really trying to get VHF APRS rolling. We
>are all situated around Scranton, with three of us in the valley, but
>three others at better elevations. We seem to have made progress
>between us, but can't seem to get reliable postings sent throughout
>our system. In other words, the well situated stations hear all of
>the juicy APRS stations from CT to MDC, but don't seem to send them
>to us "in the valley".

Pick the best "well situated station" and tell the TNC "MYA WIDE", or ALT-S,W from APRS. If this station can hear another WIDE digipeater directly, it might catch some of the stations using WIDE,WIDE on the first hop and digipeat the second hop to your valley stations. That's probably the best you can do until you get your mountaintop digipeater running.

This may also help the rest of us see your area as well. The users that can hit your temporary wide should set up an unproto path that uses the temp wide callsign as the first station, then WIDE,WIDE or even more non-generic digipeater callsigns to get your packets out of the Scranton area and into the rest of the NE network.

Good luck,

Jack

409. Re: [APRSSIG:5184] GPS, Altitude and general thoughts.

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Fri, 15 Dec 1995 06:30:41 -0800
To: aprssig@tapr.org
Message-ID: <199512151430.GAA02601@ix10.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>What has been the experience with the other Garmin and other GPS users. Have
>you experienced this. Is there a upgrade that Garmin has done...? What
>strange anomaly is this ?
>73 Mike KD4EMI@AOL.COM

I've never seen very accurate altitude readings from GPS receivers. At least the Garmin tells you about how far you might be off.

Jack

410. Track History

From: Michael Walker <mwalker@gold.interlog.com>
Date: Fri, 15 Dec 1995 09:50:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9512150918.A8743-0100000@gold.interlog.com>
Rendered body type: text/plain

Hi Bob,

I drove to work with track history turned on (upper case LOG) running v74c and when I got here, I exited and checked the track sub-directory. There was no track history written.

I have noticed in the past that I have to do a File Save in order to get it to save. Is this working as designed?

(I forgot to take 74e out to the car, so the laptop was on an older version).

On the way home tonight, I will file/save first and then check it.

cheers...mike

Michael Walker
mwalker@interlog.com
VA3MW

411. Re: [APRSSIG:5197] Track History

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Dec 1995 10:37:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951215103138.15030D-100000@greatlakes>
Rendered body type: text/plain

On Fri, 15 Dec 1995, Michael Walker wrote:

> I drove to work with track history turned on (upper case LOG) running
> v74c and when I got here, I exited and checked the track sub-directory.
> There was no track history written.
>
> I have noticed in the past that I have to do a File Save in order to get
> it to save. Is this working as designed?

APR REPLY: Yes, LOG ON only means that a TRACK HISTORY will be eventually saved once the 199 track memory FILLS UP. If it never fills on a short trip, then it will NOT automatically save. You must manually save. I CHECKED the code today, and LOG saving should be working as advertised.

412. Re: [APRSSIG:5166] Re: Grabber.exe

From: jkerns@usit.net (jim kerns)
Date: Fri, 15 Dec 1995 00:06:23 -0500
To: aprssig@tapr.org
Message-ID: <199512151711.MAA00931@use.usit.net>
Rendered body type: text/plain

>On Thu, 14 Dec 1995, jim kerns wrote:
>>
>> I have loaded grabber on occasions and also at other times grpcx. Both
>> I always use cntrl alt F1 to grab the screen when loaded grpcx. But I
>> always get the logo screen of APRS, once I got the Beacon Screen, I have
>> never been able to grab the screen I'm on, which is the map with calls
>
>APR REPLY: APRS uses dual screens. It uses the the default screen for
>all text and uses the alternate screen for the map.
>
>To save an APRS screen, simply run APRS from windows, press the PRINT-SCREEN
>KEY and then exit APRS. When you bring up PAINTBRUSH, you will find the
>APRS screen on your clipboard. Load it and have fun!
>
>
>-----
>|DE WB4APR in Annapolis MD.|
>-----
Bob I tried but it didnt save to clipboard, but I'll try a few more times.
Thanks.
Jim
N4PUQ>
>
>

413. SALE - QST Patch Antenna

From: Michael Walker <mwalker@gold.interlog.com>
Date: Fri, 15 Dec 1995 12:11:45 -0500 (EST)
To: aprssig@tapr.org
Cc: kwalker@interlog.com
Message-ID: <Pine.3.89.9512151200.B2705-0100000@gold.interlog.com>
Rendered body type: text/plain

It looks like I can say I have a working patch antenna that I can make in some Quantity. I have been using it on a Garmin 45 for several weeks and other than some freezing rain and snow falling at 10" per hour (not a typo), it is pretty reliable.

Coverage from Zenith to 45 degrees is excellent (better than the helix)
>From 45 degrees down to about 65 degrees is somewhat less than the helix that comes with the Garmin 45.
Near the horizon has very poor coverage.
It comes with 10ft of RG-58 (95% braid) and a BNC connector
It also has 4 3/4" magnets on the bottom.

I have materials to make about 20 or so. I'm still finding some suppliers for magnets, etc...

The cost will be \$30 US and \$5 for shipping and packing materials.
Shipments will be via Canadian Mail (this is the best way so we don't have any brokerage charges).

Payment is via money order or bank draft please in US\$.

(Canadians, please contact me directly for pricing).

Mike Walker
127 High Street West
Mississauga, ON
L5H 1K4
(905) 891-6328 (internet preferred)

Michael Walker
mwalker@interlog.com
VA3MW

414. APRS NET?

From: ah586@detroit.freenet.org (Steve Sable)
Date: Fri, 15 Dec 1995 12:59:13 -0500
To: aprssig@tapr.org
Message-ID: <199512151759.MAA08471@detroit.freenet.org>
Rendered body type: text/plain

Is there by any chance
an APRS HF net anywhere? Would like to
find a place other than the internet where
one could ask questions regarding the operation
of APRS.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Dec 1995 13:08:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951215130630.18340D-100000@greatlakes>
Rendered body type: text/plain

On Fri, 15 Dec 1995, jim kerns wrote:

> >To save an APRS screen, simply run APRS from windows, press the PRINT-SCREEN
> >KEY and then exit APRS. When you bring up PAINTBRUSH, you will find the
> >APRS screen on your clipboard. Load it and have fun!
> >
> Bob I tried but it didnt save to clipboard, but I'll try a few more times.

APR REPLY: It was a surprise to me, that you do NOT hold down the SHIFT
key while pressing the PRINT-SCRN-KEY... like you normally do in DOS...

418. Re: [APRSSIG:5199] Re: Grabber.exe

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 15 Dec 1995 13:54:47 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512151338.A326-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

It worked for me. Very slick!

Run APRS from Windows. Select the desired map; press PRINT SCREEN once.
Switch (F10 then alt-TAB) back to windows. Load PAINTBRUSH; select EDIT
then PASTE. bingo there it is! Check the results in my homepage,
see below.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us
<http://ourworld.compuserve.com/homepages/bmanley>

On Fri, 15 Dec 1995, jim kerns wrote:

> >On Thu, 14 Dec 1995, jim kerns wrote:
> >>
> >> I have loaded grabber on occassions and also at other times grpcx. Both
> >> I always use cntrl alt F1 to grab the screen when loaded grpcx. But I
> >> always get the logo screen of APRS, once I got the Beacon Screen, I have
> >> never been able to grab the screen I'm on, which is the map with calls
> >>
> >APR REPLY: APRS uses dual screens. It uses the the default screen for
> >all text and uses the alternate screen for the map.
> >
> >To save an APRS screen, simply run APRS from windows, press the PRINT-SCREEN
> >KEY and then exit APRS. When you bring up PAINTBRUSH, you will find the
> >APRS screen on your clipboard. Load it and have fun!
> >
> >
> >-----
> >|DE WB4APR in Annapolis MD.|
> >-----
> Bob I tried but it didnt save to clipboard, but I'll try a few more times.
> Thanks.
> Jim
> N4PUQ>
> >
> >
> >
> >
> >

419. Needed badly

From: ke4eer@ro.com (William Nolle)
Date: Fri, 15 Dec 1995 13:03:58
To: aprssig@tapr.org
Message-ID: <199512152012.0AA29660@sh1.ro.com>
Rendered body type: text/plain

I was just looking dreadfully at a directory full of 95 maps of the Madison
county Alabama area and the next task of looking at each map to extract the
center coordinates to enter into a maplist. Sure would be great if one of the
prorammmers out there in APRS land would write a little program that could
extract just the Map name and the 4th and 5th line and output this into the
format required by APRS as ALMAP1.MAP,4TH LINE,5TH LINE in ascii
format so it could then be pasted into a maplist. I find that the hardest part
of mapmaking.

420. APRS TRACK HISTORY

From: DDOBBINS@aol.com
Date: Fri, 15 Dec 1995 13:34:08 -0500
To: aprssig@tapr.org
Message-ID: <951215133407_73662426@emout04.mail.aol.com>
Rendered body type: text/plain

Aloha SIG, and to Bob/APR. Ref prob saving aero-mobile event track history. I DID have LOG on, to the best of my knowledge. I may have rebooted later in the day and didn't engage it. I've auto-saved and manually saved a couple other files since the flight and was able to replay those from the saved HST file (both auto-saved and File-Save routines). Don't know why the flight HST didn't save, and nobody else saved it either, so that one's lost. Guess we'll just have to do it again.

I liked the default LOG *on* better.

Enjoy the holidays. Aloha, Dave.

421. V# for N9VHW

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Dec 1995 14:19:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951215141627.20250A-100000@greatlakes>
Rendered body type: text/plain

I am carrying a slip of paper in my shirt pocket with a V# for N9VHW of 74836. My e-mail backlog is currently 538 messages. I dont have a clue which message may be from N9VHW nor why I was giving him a #. But if he is watching, here it is... pse QSL. TNX.

|DE WB4APR in Annapolis MD.|\n-----

422. It happened

From: ke4eer@ro.com (William Nolle)
Date: Fri, 15 Dec 1995 13:27:37
To: aprssig@tapr.org
Message-ID: <199512152036.OAA31327@sh1.ro.com>
Rendered body type: text/plain

Well it finaslly happened. The FIRST mistake i ever made in my life, and it had to happen right here on the SIG. I know guys don't write me messages that there's already a program like that within the APRS distro. JUST FOUND IT. All these years i have been running APRS i never looked at that file and here i have been entering all that map info by hand. The MKMAPLST.BAS is just what i was wanting (Thanks Bob). Well would have been a good idea if it wasn't already their.Go ahead guys and laugh all you guys are hopefully going to get to this age also Hi Hi.

Bill KE4EER (Hiding head in shame)..

423. Re: [APRSSIG:5175] Eagle AccuNa

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Fri, 15 Dec 95 12:14:06 -0800
To: aprssig@tapr.org
Message-ID: <BEB8D13001B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

Doug-
I am also a proud owner of an Eagle Accunav Sport which I bought nearly 2 years ago at a slightly higher price (ahem--\$470 back then) also from Pro Bass Shop. I am especially pleased with the high resolution graphic display which is better than the Garmins and Magellans. The only downside is battery life (roughly 2 hours on 6 alkalines) even at the low power setting. I also have good luck in my car where I mount it (w/ Velcro) to a modified metal bookend on my dash. For APRS work, I use a PacCom Tiny-2 coupled with a HTX-202 and have not had any problems. I agree that this unit has not gotten a lot of press probably because it is still more expensive than some of the \$250 units out on the market today. Glad to hear somebody else is using them---

73's de Mike KA6SPT

424. Re: [APRSSIG:5184] GPS, Altitud

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Fri, 15 Dec 95 11:41:54 -0800
To: aprssig@tapr.org
Message-ID: <BCB8D13001B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

Mike-

Unless you are a military user with a crypto-key and an authorized Precise Positioning Service (PPS) access, you will be denied positioning accuracy (using L1 and L2 signals) within 16 meters SEP. All other users (i.e. civilian) are afforded the Standard Positioning Service (SPS) which only receives the L1 signal (without ionospheric delay correction) at 1575 MHz. On top of this, the DOD has imposed Selective Availability (SA) which dithers the atomic clock reference timing and also the satellite ephemeris data. The upshot of all this is that standard civilian accuracy is purposely degraded to 100 meters horizontal accuracy, 2 sigma (i.e. 95% probability) and 168 meters vertical accuracy (also 2 sigma). It is therefore not surprising to be off by more than 500 feet in altitude at any one time. The SA imposed error slowly varies over time, so over a short term it may give fairly accurate DIFFERENCES in altitude rather than accurate absolute altitude. I hope this clarifies the situation---

73's de Mike KA6SPT

425. Re: [APRSSIG:5206] Needed badly

From: jleonard@tbcnet.com (John B. Leonard)
Date: Fri, 15 Dec 1995 14:25:15 -0600
To: aprssig@tapr.org
Message-ID: <199512152025.OAA21324@tbc2.tbcnet.com>
Rendered body type: text/plain

>I was just looking dreadfully at a directory full of 95 maps of the Madison
>county Alabama area and the next task of looking at each map to extract the
>center coordinates to enter into a maplist. Sure would be great if one of the
>proramers out there in APRS land would write a little program that could
>extract just the Map name and the 4th and 5th line and output this into the
>format required by APRS as ALMAP1.MAP,4TH LINE,5TH LINE in ascii
>format so it could then be pasted into a maplist. I find that the hardest part
>of mapmaking.
>
>Bill KE4EER
>
>
>

Bill, the MKMAPLST.BAS program does just that! Bob included it into the APRS distro copy. Just put all your maps and MKMAPLST.BAS in an otherwise empty directory, and it does it for you.

73's
Barry
J Barry Leonard
DeKalb IL
E-MAIL: jleonard@tbcnet.com

426. Re: Ultimeter 2000/APRS74e CRASHES

From: schiers@ibm.net (hasan schiers)
Date: Fri, 15 Dec 95 20:53:52 EST
To: aprssig@tapr.org
Message-ID: <199512152055.UAA26559@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

Bob,

APRS Version 7.4e and several before it (c & d), do NOT work properly with the U-2000. The program crashes badly as soon as it receives data from the wx station. This happens from either the map or the P list.

Here is the info from the screen:

```
LM,PM: 0      0
a,I,J,K: 55  1  1 78
X,Y,X1,Y1 1102.345 98.53574 205.2888 16.40635
A$:
c$:
E$Finished DrwUnit
000PS! ERR number 6  Hit ENTER to return to DOS?
```

Below is a sample of the data sentence coming from the U-2000. The U-II works perfectly. Any suggestions (like I might be doing something stupid) or feed back is most welcome. I am in the DATA LOGGER MODE, by the way.

```
!!004CFFE70149000027FD02A8-----015C037B
!!004CFFE7014A000027FD02A8-----015C037B
!!004CFFE7014A000027FD02A8-----015C037B
!!004BFFDE014A000027FD02A8-----015C037B
!!004BFFDE014A000027FD02A8-----015C037B
!!004BFFDE014A000027FD02A8-----015C037B
!!0049FFE5014A000027FD02A8-----015C037B
!!0049FFE5014A000027FD02A8-----015C037B
!!0049FFE5014A000027FD02A8-----015C037B
!!0049FFE5014A000027FD02A8-----015C037B
!!0049FFE5014A000027FD02A8-----015C037B
!!0048FFE5014A000027FD02A8-----015C037B
!!0048FFE5014A000027FD02A8-----015C037B
```

It also appears that the initial attempt to grab wx data gathers corrupted data...I have seen the version 7.4c run for about 5 mins in the P list mode before crashing in the same manner. The extended running with 7.4c only happened once. The barometric pressure readings were correct with 7.4c during the one time it ran for several mins before crashing. I have no other accessories (no humidity, etc).

Hope this helps... and the U-2000 is AMAZING!!!!

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

427. 100K maps

From: ke4eer@ro.com (William Nolle)
Date: Fri, 15 Dec 1995 15:12:53
To: aprssig@tapr.org
Message-ID: <199512152219.QAA01871@sh1.ro.com>
Rendered body type: text/plain

I have just uploaded a map file called ALmadiso.zip both the zip and txt files for those users that never have enough maps (Like me). The maps cover Madison county Alabama and has 92 maps, mosr are 2 mile and in the center of Huntsville they are 1 mile maps. First time i did a whole county!.

Bill KE4EER

428. Re: [APRSSIG:5206] Needed badly

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Dec 1995 17:39:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951215173653.23668C-100000@greatlakes>
Rendered body type: text/plain

On Fri, 15 Dec 1995, William Nolle wrote:

> center coordinates to enter into a maplist. Sure would be great if one of the
> prorammers out there in APRS land would write a little program that could
> extract just the Map name and the 4th and 5th line and output this into the
> format required by APRS as ALMAP1.MAP,4TH LINE,5TH LINE in ascii

WELCOME to the WORLD OF APRS, Bill. (hi hi) That program has been in every copy of APRS for the last year. It is called something like MAKELIST.bas I havent used it since the night I wrote it, so I dont remember the exact name, and I hope it still works. You will need to re-arrange the maps in your desired heirarchy, but it will build a MAPLIST...

429. MAPLISTS and Bill's challenge!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Dec 1995 19:07:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951215185948.24450B-100000@greatlakes>
Rendered body type: text/plain

For someone that wants a nice little programming challenge, we need to take the code in MKMAPLIST.bas and modify it so that it not only scans all MAPS and builds a maplist,

BUT THAT IT BUILDS A CORRECT ONE!

This should be simple. Just scan through all the maps collecting their centers and their ranges. Then use some logic to sort them according to the following approximate rules:

1) Sort first alphabetically (this just sort of assures that when all else is taken into tconsideration, comparable maps of the same state will be in approximately the same place..

2) Bigger ranges first.

3) Any map that fits WITHIN another should come later. (Note, this includes both the CENTER location AND the range must be considered)

With a program like that EVERYONE, including BILL's life will be easier. It should be "simple" to do

|DE WB4APR in Annapolis MD.|

430. SPRE Beacon with KPC-3

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Fri, 15 Dec 1995 16:10:50 -0800
To: aprssig@tapr.org
Message-ID: <v01510101acf7baef5bfa@[128.149.100.84]>
Rendered body type: text/plain

My experience with my KPC-3 is that there is NO way to change the UNPROTO address from BEACON to _BEACONING._ Changing UNPROTO only works for "manual" [UI] packets. In other words, I can set:

Unproto DM04we v r0mir

If I type:

cmd:k
 blah blah blah blah blah

This gets transmitted:

KD6MSM>R0MIR>DM04WE: blah blah blah blah blah

However, if I let it beacon, I get:

KD6MSM>R0MIR>BEACON: Hi!

Can anyone way any different?

-Greg

--
Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
Pasadena, CA 91109 |

431. Re: [APRSSIG:5182] MS report

From: n8mwz@alpha.wcoil.com (Bob Hartman)
Date: Fri, 15 Dec 1995 16:54:29 -0500
To: aprssig@tapr.org, "Bob Bruninga" <bruninga@nadn.navy.mil>,
 "Fred Vobbe" <gnbc@alpha.wcoil.com>
Message-ID: <199512152154.QAA10394@alpha.wcoil.com>
Rendered body type: text/plain

>You may be surprised at what you hear, if you can handle the withdrawal
>symptoms of NOT seeing all that other activity!

Here in NW OHIO, we are used to only seeing the same area locals, except for band openings. Without the ability to network into other populated areas, APRS can get boring. Consider yourselves lucky if you live in an area where the hams are willing to pitch in and/or open their wallets. I refuse to personally fund the two to four additional DIGIs needed to connect our area to more populated areas so it looks like it may not get done. Oh well, it makes for a convenient one line message drop for the area... {sigh}

432. APRtrak transmit rate

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Fri, 15 Dec 1995 21:04:14 -0600
To: aprssig@tapr.org
Message-ID: <v02130500acf7e3fe078b@[204.96.0.43]>
Rendered body type: text/plain

I timed the interval between transmissions of a packet by APRtrak after setting MODE-SPACE and POSrate to 30. The number to the left of SAT OVERLAY is 30/30.

The time between transmissions was: 9, 20, 38, 79, 98, 64, 320.

This is close to a doubling: 10, 20, 40, 80, 160, 320 if I ignore the 98.
So it appears APRtrak is working correctly

This time measurement was without any packets received from the digipeater.

With the duration of a shuttle pass being about 600 seconds, this gives very few packets during the "prime" part of the pass.

Is there a way to get APRtrak to beacon every, say, 30 seconds without using the manual XMIT key.

Ron W5RKN

also:
rparsons@bga.com

433. AUTOWX program

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Dec 1995 22:36:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951215223041.25096C-100000@greatlakes>
Rendered body type: text/plain

I just discovered the first AUTOWX program in the area... sort of by accident... I notice the new WX station out in the middle of the river. I been trying for a week to send him a message asking how he did that and never got any ACKS! I checked the HEARD log, and he was on the air...

Well, now I finally tracked him down and found that he was running the AUTOWX program. It apparently puts out an APRS WX report AS IF IT CAME FROM AN APRS station.

The problem is, that it begins its DATE-TIME-POSIT report with an @. And that means it is a full APRS station, capable of sending and receiving MESSAGES. That software should be using a "/" instead of a "@" so that everyone will know that it is NOT fully APRS compatible. I'm trying to get through to the author of AUTOWX to ask him to change that. Is anyone noticing any other things I should discuss with him?

P.S. He was in the middle of the river because he was using seconds instead of MINUTES for his posit....

|DE WB4APR in Annapolis MD.|\n-----

434. Re: APRtrak transmit rate

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Dec 1995 22:50:21 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.951215223721.25096D-100000@greatlakes>
Rendered body type: text/plain

On Fri, 15 Dec 1995, Ronald G. Parsons wrote:

> I timed the interval between transmissions of a packet by APRtrak in
> MODE-SPACE and POSrate to 30.
> The time between transmissions was: 9, 20, 38, 79, 98, 64, 320.
> So it appears APRtrak is working correctly
>
> Is there a way to get APRtrak to beacon every, say, 30 seconds without
> using the manual XMIT key.

APR REPLY: The POS-RATE command is a hold over from APRS and should be

removed from APRtrak. Your POSRATE will ALWAYS decay in APRtrak to minimize QRM, but there is a mitigating circumstance:

IN SPACE mode in APRtrak, your system is ARMED. This means that if it ever HEARS a packet from the SPACE digipeater, then your DECAY timer will be RESET to the minimum of 10 seconds again. This means you may have decayed to 15 minutes between your posits, but when the spacecraft comes overhead, BINGO you restart your POSIT.

CONVERSLY: Once your station SEES ITSELF, you are put into the "CONGRATULATIONS" mode and your decay timer will instantly go to over 9 minutes. No need to keep transmitting right?

You may force a POSIT at any time with the XMT-BEACON or XMT-POSIT command.

Also note that your station must hear a packet FROM the spacecraft CALLSIGN, not just a packet digipeated BY the spacecraft...

| DE WB4APR in Annapolis MD. |

435. Paccomm HSP and Tiny 2 configuration assistance

From: jeff.wallach@drig.com (Jeff Wallach)
Date: Fri, 15 Dec 95 20:56:00 -0600
To: aprssig@tapr.org
Message-ID: <59.47110.99.0C38EB94@drig.com>
Rendered body type: text/plain

>From N5ITU, Dallas Remote Imaging Group:

Paccomm HSP Switch and Mode with APRS74E
=====

Here is an open question to anyone that may have the following configuration:

Paccomm Tiny-2 MK-2 with GPS EPROM dated 4/15/94

Paccomm Hardware Single Port Switch
APRS74E

I have setup the APRS74E for HSP mode
(after doing an ALT Save, it did as for registration number and also GPS registration number...hsp turned to HSP).

Connecting my Magellan 5000 DLX handheld to the serial port COM1 of which APRS is configured for, the NMEA 183D data streams in with no problem. doing an O C G , the GPS data can be logged to the NMEAlog and show my position.

Looking at the RS232 flow, the RTS, RD, CTS, and DTR showed active (toggling F8 HSP did indeed toggle the DTR line high and low)

However, if I hookup the Paccomm HSP cable (DB9 of Black cable to Magellan, Y portion of Gray cable to Paccomm Tiny2, and other end of grey cable to the RS232 PC cable), the RTS, CTS, and DTR show no voltage at all -- only the receive light is flashing once every 2 seconds to show the NMEA data is coming out of the GPS unit.

APRS tries to toggle between NMEA mode and TNC mode, with HSP port Time Outs...

If I go into Other COMM TNC mode, the unit usually locks up immediately...similarly, going into GPS mode it just sits there...no data show in the APRS application.

then it usually locks up the PC, and a re-boot is required.

There is 6 volts on Pin 6 of the DB9 RS232 connector on the Paccomm, so that should drive the transistor switch o.k.

Only thought may be the drive level of the Magellan 5000 DLX is too low.

Comments or similar observations would be appreciated.

Jeff Wallach
N5ITU
Dallas Remote Imaging Group

436. Central and SW Florida APRS Finally!

From: n2czf@gate.net
Date: Fri, 15 Dec 1995 23:40:23 -0500
To: aprssig@tapr.org
Message-ID: <199512160440.XAA24508@osceola.gate.net>
Rendered body type: text/plain

I just wanted to comment that tonight I saw 4 stations from the central and SW portions of Florida for the first time. The Seabring area had 2 amateurs and I also saw another 2 in the Port Charlotte area. These are VERY important areas for APRS growth since they offer some very optimum networking capabilities. A solid East<->West link has not been established yet due to the 130+ mile distance and low population density of the area. In case of a major weather emergency where APRS can be of use this East-West link is vital since must of what hits one coast will very often cross the state and hit the other.

If anyone from the sig is from this area please contact me for further discussion about local activity.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

437. Re: [APRSSIG:5219] APRtrak transmit rate

From: William Richarz <wricharz@ix.netcom.com>
Date: Fri, 15 Dec 1995 23:43:14 -0500
To: aprssig@tapr.org
Message-ID: <199512160442.UAA23696@ix11.ix.netcom.com>
Rendered body type: text/plain

At 09:20 PM 12/15/95 -0600, you wrote:
>I timed the interval between transmissions of a packet by APRtrak after setting
>MODE=SPACE and POSrate to 30. The number to the left of SAT OVERLAY is 30/30.

Was wondering where you can DL the APRtrak software?
Bill Richarz <WA4VAF>
wricharz@ix.netcom.com

438. I/O Glitch

From: Scott Miller <scottm@sierra.net>
Date: Fri, 15 Dec 1995 20:46:15 -0800
To: aprssig@tapr.org
Message-ID: <199512160447.AA01213@diamond.sierra.net>
Rendered body type: text/plain

Hi SIG, Scott here in Tahoe City
I'm wondering if anyone can tell me what I'm doing wrong?
It seems like just about every time I quit aprs to do something else like get E-Mail when I start aprs again I get an I/O Glitch.
seems like the TNC -a PICO 2 port w/internal GPS allways defaults to 9600 baud on port one and I've been configuring it 1200 baud for raido, 4800 baud for port one-the rs 232 port-and 4800 for port 2-the GPS port.
Can anyone tell me if it's ok to run the rs 232 port -1- at 9600 or what I'm doing wrong.
Thanks very much and 73 Scott

439. Re: [APRSSIG:5204] Re: Grabber.exe

From: mickey@intellinet.com (mickey esposito)
Date: Fri, 15 Dec 1995 23:17:14 -0600
To: aprssig@tapr.org
Message-ID: <199512160523.XAA15600@intellinet.com>
Rendered body type: text/plain

>Am I missing something or will APRS finally run under windows, especially Win95?
For sure?

440. APRStrak in the scheme of things...

From: Greg LaBorde (313) <laborde@kilroy.jpl.nasa.gov>
Date: Sat, 16 Dec 1995 04:01:34 -0800
To: aprssig@tapr.org
Message-ID: <199512161201.EAA16982@kilroy.jpl.nasa.gov>
Rendered body type: text/plain

Where does APRStrak fit into the scheme of things? Is it a cut-down APRS with some satellite-specific features added? Does it require an additional/different registration than APRS?

-Greg

441. Re: [APRSSIG:5218] Re: MS report

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sat, 16 Dec 1995 12:27:29 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951216122243.16774A-100000@pinegov>
Rendered body type: text/plain

On Fri, 15 Dec 1995, Bob Hartman wrote:

> >You may be suprised at what you hear, if you can handle the withdrawal
> >symptoms of NOT seeing all that other activity!
>
> Here in NW OHIO, we are used to only seeing the same area locals,
> except for band openings. Without the ability to network into other
> populated areas, APRS can get boring. Consider yourselves lucky if
> you live in an area where the hams are willing to pitch in and/or
> open their wallets. I refuse to personally fund the two to four
> additional DIGIs needed to connect our area to more populated areas
> so it looks like it may not get done. Oh well, it makes for a
> convenient one line message drop for the area... {sigh}
>
>

Bob...have you considered talking to your local emergency management about APRS? Get with your local EC and see about using APRS during emergency situations, then convince the government to buy the equipment for you under the auspices of RACES. Another option is to contact your local hospital administrator. Most hospitals have money set aside for emergency communications. Show them how APRS can be used to track disaster supply centers and distribution, as well as track field personnel. Then get them to buy the digi, transmitter, and put it on top of their building.

Just a couple of suggestions on how to get funded, good luck.

73 de Kevin KD4UYR
Asst. Emergency Coordinator
Pinellas County, FL

442. APRS AIRMOBILE

From: KD4EMI@aol.com
Date: Sat, 16 Dec 1995 07:34:54 -0500
To: aprssig@tapr.org
Message-ID: <951216073453_55802570@mail06.mail.aol.com>
Rendered body type: text/plain

I was asked to post this msg for KA40PZ to the sig.

KA40PZ will be travelling APRS Mobile today from Fort Lauderdale to Atlanta via AIR MOBILE.

HE frequently flies around here in South FL and we have found that reliable connects occur as far away as 90 miles.

HE would like to invite anyone that see's him to connect to his TNC mailbox KA40PZ-2 and leave a brief msg.

There is a possiblilty that KC4NMY may be the callsign of the AIRMOBILE. So, if you see a plane on APRS in the Atlanta/FL region, try and give it a connect. 73 Mike KD4EMI

443. Re: [APRSSIG:5205] Re: Grabber.exe

From: jkerns@usit.net (jim kerns)
Date: Fri, 15 Dec 1995 21:00:13 -0500
To: aprssig@tapr.org
Message-ID: <199512161405.JAA07599@use.usit.net>
Rendered body type: text/plain

>It worked for me. Very slick!

>

>Run APRS from Windows. Select the desired map; press PRINT SCREEN once.
>Switch (F10 then alt-TAB) back to windows. Load PAINTBRUSH; select EDIT
>then PASTE. bingo there it is! Check the results in my homepage,

>see below.
>
>William Manley
>z002594b@bcfreenet.seflin.lib.fl.us
>http: //ourworld.compuserve.com/homepages/bmanley
>
>William: Thanks for Tip. You and APR got me going. On a color printer,
APRS map sure looks black. Hi.
73 Jim N4PUQ>
>
>

444. Re: [APRSSIG:5218] Re: MS report

From: AA8JK@aol.com
Date: Sat, 16 Dec 1995 11:13:53 -0500
To: aprssig@tapr.org
Message-ID: <951216111351_91890754@mail06.mail.aol.com>
Rendered body type: text/plain

Did you get a copy of the TAWG newsletter for 12/95 via internet?

Some folks did not get it for some reason.

There will be a TAWG meeting and APRS presentation at the Packet Symposium,
20 JAN 96, in Middletown, Ohio. I'll put out more info later.

73,

Steve Caesar

AA8JK

AA8JK@aol.com

445. APRS??Z and NEXRAD Xmas 2000 Wish

From: barrettd@crpl.cedar-rapids.lib.ia.us
Date: Sat, 16 Dec 1995 09:40:53 -0600
To: aprssig@tapr.org
Message-ID: <199512161636.KAA16062@sys1.tapr.org>
Rendered body type: text/plain

At 01:42 AM 95-12-15 EST, you wrote:

>The NEXRAD site was hard-coded into the IAQUAD map that I did about 6 months
>ago. Are you sure it was ON THE AIR?

This is from my p-list
p,W0BXR-2 040632 @291937/4136.77N/09035.03WPHG7230/ NWS NEXRAD site @
Davenport

> I do know that the APRS group in the Quad
>Cities has a station operational at the NWS Office there (I visited it in
>April). I doubt that they have the RMC data available there, however the
>suggestion about adding that feature to APRS is a good one! Perhaps Bob or
>Keith will write a call-out feature to import the data into the local terminal
>display (but not rebroadcasting the data!)

My thought would be APRS recognizing the NEXRAD site specifically in the
setup and thereby a capability to grab an RMC data file called maybe
LATEST.RMC when a station did an ops query NEXRAD

>Only problem we had with RMC here in Kansas City was the BBS at the NWS
site was
>getting radar updates every 15 minutes but it took as much as three hours
to get
>the files forwarded to the other BBS's in town so the data was WORTHLESS!

Dgipeating a 4k file would take some time I imagine

>73 de Jim, KU0G
>(The Great Lakes are in south central Missouri, AREN'T they?)

Thanks for the response Jim!

I'm 4 hours SW of the Great Lakes and 4 Hours SE of the Iowa Great Lakes

barrett

446. Re: [APRSSIG:5184] GPS, Altitude and general thoughts.

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 16 Dec 1995 11:02:06 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512161702.LAA09911@solar.cs.tamu.edu>
Rendered body type: text/plain

KD4EMI@aol.com sez:

>
> Here is the reason why I write. In the year that I have had my garmin,
> I dont think Ive EVER got a accurate altitude reading. EVEN if the
> accuracy on the sat screen is 50 feet. (which it has been). The accuracy
> on the +/- altitude screen is less than 100 feet sometimes and yet
> the darn thing never really seems to come close. Now, that really doesnt
> bother me except when I got together with a few other aprs guy and we held
> our GPS'S next to each other, I mentioned the altitude. HIS Magellen
> (5000D) I think it was) was fairly accurate...Actually, it was really
> accurate
> and changed perfectly when we went up ramps and things on the highway.
>
> I mentioned it to him, and he stated that he thought this was normal
> operation for GPS'S and was suprised at my reading.
>
> Now...whats the deal..How do I know for example that the LOCATION
> is even close. (I CAN GUESS BASED ON THE MOBILES PLOT THAT
> IT IS OK THOUGH-But thats a hell of a way to verify it)

What you're seeing is normal operation for an L1-only, non-carrier-phase corrected receiver. The variability in altitude can be significant (I don't have ICD-GPS-200 at home and won't quote specs off the top of my head today...) but your long term average of altitude, using acceptable GDOP or VDOP values for the recorded fixes should be on the order of +/-5 meters (warning: Just finished Finals. Brain fogged)

In low dynamic states, with consumer-grade receivers using minimally acceptable algorithms, you're probably doing pretty well with horizontal accuracies. For my GPS-55AVD, in the airplane, I get reasonable coorelation with the altimeter. In the car, I can usually determine I'm somewhere in orbit about earth! The dynamics and the change in altitude inflight make a big change in dynamic (3-D) position accuracy.

73, gerry N5JXS
n5jxs@tamu.edu

447. N4YCI

From: ke4eer@ro.com (William Nolle)
Date: Sat, 16 Dec 1995 10:54:28
To: aprssig@tapr.org
Message-ID: <199512161801.MAA31045@sh1.ro.com>
Rendered body type: text/plain

Lynn N4YCI,I attempted to e-mail you about the maps but twice the message came back as No Such Address?.

I have your maps made but don't know how you want me to get them to you!.

Bill KE4EER

448. Re: [APRSSIG:5141] METEOR SCATTER TONIGHT!

From: BenW55R@aol.com
Date: Sat, 16 Dec 1995 12:20:33 -0500
To: aprssig@tapr.org
Message-ID: <951216122030_55931847@mail04.mail.aol.com>
Rendered body type: text/plain

Ran 160 watts into 18 el at 55 ft during the shower pointed to NW. Heard nothing in Amarillo, TX DM95cf. 73 Ben W55R

449. Gif files

From: ke4eer@ro.com (William Nolle)
Date: Sat, 16 Dec 1995 11:41:42
To: aprssig@tapr.org
Message-ID: <199512161848.MAA32134@sh1.ro.com>
Rendered body type: text/plain

For those APRS users that like GIF files concerning APRS i have uploaded a file named AL-GA-TN.ZIP and a text file AL-GA-TN.TXT that shows much of this areas APRS activity, and also shows our mapping system (Well Alabama anyway hi). It also shows our digi coverage etc. if you like APRS & GIF's you

will like these hi. They where captured with Grabber on Sat Dec 16 abt 10am.

Bill KE4EER
ke4eer@ro.com

450. [APRSSIG:5224] RE: APRTTrak TRANSMIT RATE

From: jeff.wallach@drig.com (Jeff Wallach)
Date: Sat, 16 Dec 95 11:34:00 -0600
To: APRSSIG@tapr.org
Message-ID: <59.47233.99.0C38EBAC@drig.com>
Rendered body type: text/plain

Bill,

the latest version of APRTTrak is always on the
Dallas Remote Imaging Group FTP server at:

ftp.drigr.com /pub/aprs

or,

the dial-up BBS at:

214-492-7057

it is a free access for all callers.

regards,

jeff n5itu
Dallas Remote Imaging Group

451. Re: [APRSSIG:5211] Re: GPS, Altitud

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sat, 16 Dec 1995 13:28:11 -0600
To: aprssig@tapr.org
Message-ID: <9512161928.AA26181@omnifest.uwm.edu>
Rendered body type: text/plain

Re: induced error

Personally I think this induced error is "for the birds". Any
need that might have existed is now gone. Maybe I'll just go to
LoranC.

Dave Barrow, N9UNR

452. WIDE formatting

From: Doug Woodruff <102256.1216@compuserve.com>
Date: 16 Dec 95 20:39:13 EST
To: TAPR E-mail Forum <aprssig@tapr.org>
Message-ID: <951217013913_102256.1216_BHB97-1@CompuServe.COM>
Rendered body type: text/plain

What is the proper format for stationary stations who wish to go through a local
gate to be visible elsewhere? Is it <path to gate>,GATE,GATE,WIDE or should
there be only one GATE in the path?

Same question for mobiles.....should there be one or two GATES in the path?

Doug, KM4HY
Athens, GA

453. Re: [APRSSIG:5206] Needed badly

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sat, 16 Dec 1995 20:47:17 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9512162015.A9284-a100000@acme>
Rendered body type: text/plain

On Fri, 15 Dec 1995, William Nolle wrote:

> I was just looking dreadfully at a directory full of 95 maps of the Madison
> county Alabama area and the next task of looking at each map to extract the
> center coordinates to enter into a maplist. Sure would be great if one of the
> programmers out there in APRS land would write a little program that could
> extract just the Map name and the 4th and 5th line and output this into the

> format required by APRS as ALMAP1.MAP,4TH LINE,5TH LINE in ascii
> format so it could then be pasted into a maplist. I find that the hardest part
> of mapmaking.

Just like me not liking to do labels on the maps, its something
that's gotta get done, and is just one part of map making.

John Baum - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address: 39 56.35 N 082 58.89 W
Semi-Co-owner of H00T - Columbus Ohio's BiWeekly Humor Newspaper

454. Re: [APRSSIG:5222] Paccomm HSP and Tiny 2 configuration assistance

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 16 Dec 1995 23:49:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951216234745.28284A-100000@greatlakes>
Rendered body type: text/plain

On Fri, 15 Dec 1995, Jeff Wallach wrote:

> Paccomm HSP Switch and Mode with APRS74E
> =====
> However, if I hookup the Paccomm HSP cable (DB9 of Black cable to
> Magellan, Y portion of Gray cable to Paccomm Tiny2, and other end
> of grey cable to the RS232 PC cable), the RTS, CTS, and DTR show no
> voltage at all -- only the receive light is flashing once every 2

APR REPLY: The HSP is for APRS tow switch between the TNC and the GPS,
so the Y part of the cable goes to the PC, NOT the TNC.. End of problem...

|DE WB4APR in Annapolis MD.|

455. Re: [APRSSIG:5225] I/O Glitch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 16 Dec 1995 23:53:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951216235149.28284C-100000@greatlakes>
Rendered body type: text/plain

On Fri, 15 Dec 1995, Scott Miller wrote:

> It seems like just about every time I quit aprs to do something else
> like get E-Mail when I start aprs again I get an I/O Glitch.
> seems like the TNC -a PICO 2 port w/internal GPS allways defaults to
> 9600 baud on port one and I've been configuring it 1200 baud for raido,
> 4800 baud for port one-the rs 232 port-and 4800 for port 2-the GPS port.
> Can anyone tell me if it's ok to run the rs 232 port -1- at 9600

APR REPLY: Run APRS at 9600 is just fine. It only defaults to 4800
since many GPS units are stuck at that speed and sometimes people configure
their TNC's for 4800 to match when they go mobile as a
stand-alone-tracker.

|DE WB4APR in Annapolis MD.|

456. Re: [APRSSIG:5226] Re: Grabber.exe

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 16 Dec 1995 23:56:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951216235537.28284F-100000@greatlakes>
Rendered body type: text/plain

On Fri, 15 Dec 1995, mickey esposito wrote:

> >Am I missing something or will APRS finally run under windows, especially
> Win95?

APR REPLY: Let me give you a hint..... Hold your breath....
Watch this net.....

|DE WB4APR in Annapolis MD.|

457. Re: [APRSSIG:5227] APRStrak in the scheme of things...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 00:10:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217000458.28284I-100000@greatlakes>
Rendered body type: text/plain

On Sat, 16 Dec 1995, Greg LaBorde wrote:

> Where does APRStrak fit into the scheme of things? Is it a cut-down APRS with
> some satellite-specific features added? Does it require an additional/different
> registration than APRS?

APR RELY: Yes to the above. I gave it to AMSAT (my 2nd love) for
several reasons:

- 1) So they could sell it as a fund raiser for helping to build more
satellites
- 2) So that I had no monetary interest in it and then could PREACH about how
good I think APRS would be for SAREX and other "wide reaching, low tech"
satellites for school, students and kids and us old fudds too...
- 3) So that I could add neat little space things to the APRS code without
taking up space and bloating the normal APRS...

APRS itself still has the space mode, but does not have the special "ONE
TIME" code necessary to receive the telemetry and special formats from
the 24 hour mission of the SPRE experiment coming up in 4 weeks...

Register APRtrak with AMSAT....

|DE WB4APR in Annapolis MD.|

458. News about SAFEX and MIR (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 00:17:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217001419.28284J-100000@greatlakes>
Rendered body type: text/plain

Here is our first neighbor on 145.80... Hey, its a hobby, lets all enjoy
the messages from space... DE WB4APR in Annapolis MD.|

----- Forwarded message -----
SEASONS GREETINGS FROM DP0MIR

German Astronaut Thomas Reiter, DF4TR/DP0MIR, who will stay aboard MIR until
February 1996, is going to send seasons greetings for Christmas and New Year
to all HAMS and SWLs all over the world. He will use the the digital voice
recorder constructed by Thomas Kieselbach, DL2MDE. The storage capacity of the
recorder is up to 8 minutes. Thomas Reiter will record messages, which will be
transmitted automatically then. As time permits there will probably also be some
"life" activity of DP0MIR. The messages will be transmitted mainly on 145.800
MHz, which is the frequency assigned by IARU for manned spacecraft ham
activity.

Vy 73 de Norbert, DF5DP (DARC Coordinator Satellites and Space Projects)

459. Re: [APRSSIG:5239] WIDE formatting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 01:10:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217005441.28284P-100000@greatlakes>
Rendered body type: text/plain

On Sat, 16 Dec 1995, someone wrote:

> What is the proper format for stationary stations who wish to go through
> a local gate to be visible elsewhere?

APR REPLY: Sorry, but the proper procedure is to buy an HF radio and put
it on 10.151. That way your station can *hear* the already busy channel
and it will only inject a packet when the channel is clear. And it will
also use a transmit timing that is appropriate for the much slower 300

baud channel.

Unless you are a special event station, or a mobile involved in some event or exercise that is of "national" interest, then your VHF packets are not really appropriate on the SINGLE SLOW 300 baud channel. This is *not* to say that most of what you may see on HF necessarily *is* of national significance either, but simply that the VHF user is BLIND to the congestion on the HF side of the GATE and like anywhere else in Ham radio, SHOULD NOT TRANSMIT WITHOUT LISTENING TO THE CHANNEL... Or another way of saying it is that ONE VHF station anywhere within range of any number of dozens of gateways can pump so much 1200 baud traffic into the narrow 300 baud gate that it would totally QRM the HF net into grilock nationwide.

So this HF restriction is not an elitest stance, but simply a protection of the vary vulnerable 300 baud channel (more like 50 baud throughput) from the estimated 1000*1200 baud potential of all the VHFers that would like to use it...

See README\HF.txt

Please do not use GATE or GATE,GATE on VHF...

|DE WB4APR in Annapolis MD.|

460. Re: GPS, Altitude and general thoughts.

From: Turnstone@aol.com
Date: Sun, 17 Dec 1995 03:09:43 -0500
To: aprssig@tapr.org
Message-ID: <951217030942_74617944@mail02.mail.aol.com>
Rendered body type: text/plain

Greetings APRSers,

On the subject of GPS position and altitude accuracy, one might summarize generally as follows. Note that these are generalizations, not intended to be technically detailed.

Note also that I am _not_ discussing the use of DGPS corrections to improve accuracy

Nice reply by Mike KA6SPT. I agree completely. You can't dispute the facts. Also, the Eagle Accunav is reputed to be very good, especially under forest cover.

1 - Altitude accuracy is always about 50% worse than positional accuracy.

This has to do largely with all the satellites being over your head. If there were visible satellites both above you and below you, then the triangulation would yield better altitude accuracy. Unfortunately, our planet gets in the way of that. I never pay any attention to the altitude readout. It has very limited value.

2 - Positional accuracy errors can be as big as +/- 150 meters. Position errors are less than 100 meters (330 feet) about 80% of the time. Let's not quibble about the exact percentages.

3 - Two GPS receivers side-by-side can give completely different position and altitude readouts, for at least two reasons. One, they may be tracking different satellites. Two, if the GPS engines are of different makes, they may use completely different algorithms for computing the position (i.e. single channel sequential tracking, versus parallel channel simultaneous tracking).

4 - The position and altitude errors are due in part to the Selective Availability (SA) "feature" provided by our government. SA causes the satellites to dilute the accuracy they would otherwise provide.

In summary, if you look at a NON-DGPS receiver, and it is reporting a position error of less than 50 feet, you're simply lucky. Keep watching, and the error will gradually increase, then decrease, then increase, in the never-ending dance of SA.

Thanks for listening. Happy tracking,

Tom - Salem, OR [turnstone@aol.com] AB7NV (ex-KC7AGK)

461. Re: [APRSSIG:5243] Re: Grabber.exe

From: jkerns@usit.net (jim kerns)
Date: Sat, 16 Dec 1995 20:36:54 -0500
To: aprssig@tapr.org
Message-ID: <199512171342.IAA08562@use.usit.net>
Rendered body type: text/plain

>On Fri, 15 Dec 1995, mickey esposito wrote:
>
>> >Am I missing something or will APRS finally run under windows, especially
>> Win95?
>
>APR REPLY: Let me give you a hint..... Hold your breath....
>Watch this net.....
>
>-----
>|DE WB4APR in Annapolis MD.|
>-----
>From Jim, N4PUQ... what Bob ment was get into windows file manager, and run
aprs exe from there. It is not a windows program as yet, but will run that
way. 73 Jim.
>
>
>

462. TNC Init and Restore

From: mwalker@interlog.com (Mike Walker)
Date: Sat, 16 Dec 95 20:49:12 EST
To: aprssig@tapr.org
Message-ID: <199512171349.IAA10505@gold.interlog.com>
Rendered body type: text/plain

Hi Bob,

It would be nice if when we exit from APRS with the laptop that the restore.tnc file sets up all the buffers for the KPC-3 to track in standalone mode. (not a problem, we can do this now, just modify restore.tnc).

Now, when I start APRS, what file can I modify to take my KPC-3 out of standalone tracker mode and reset all the LTP values to null? Is there an INIT.TNC??

I often change from from HSP mode to standalone tracker mode and this would help to automate a little better.

Seasons Greetings....mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

463. U-2000 & APRS

From: schiers@ibm.net (hasan schiers)
Date: Sat, 16 Dec 95 23:37:02 EST
To: aprssig@tapr.org
Message-ID: <199512171428.OAA01792@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

Bob,

I should have mentioned in my last message that the number of data sentences per minute is quite a bit higher on the 2000 than what we had on the U-II. The rate on the 2000 is about 90 per minute...the U-II was about 17/min.

Hope you find a fix...I miss sending out the wx. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

464. Re: SALE - QST Patch Antenna

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Sat, 16 Dec 1995 00:32:59 -0600
To: aprssig@tapr.org, Michael Walker <mwalker@gold.interlog.com>
Message-ID: <9512160032.AA59951@oscar.tbr.state.tn.us>
Rendered body type: text/plain

> I have materials to make about 20 or so. I'm still finding some
> suppliers for magnets, etc...
>
> The cost will be \$30 US and \$5 for shipping and packing materials.

> Shipments will be via Canadian Mail (this is the best way so we don't
> have any brokerage charges).
>
>
> Michael Walker
> mwalker@interlog.com
> VA3MW
>
>

Any chance of setting this up to screw the Antenna on an NMO mount? I do not
relish having the RG-58 mangled and deformed by doors or trunk lids.

73 de KQ4TV

465. Re: [APRSSIG:5243] Re: Grabber.exe

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Date: Sun, 17 Dec 1995 10:06:59 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512171607.KAA03175@crasher2.ttgciitn.com>
Rendered body type: text/plain

Thus spake Bob Bruninga, splattered hither:

> APR REPLY: Let me give you a hint..... Hold your breath....
> Watch this net.....

I have a feeling that if I hold my breath for a Linux version, I might
suffocate ;-)

--

| | |
|-------------------------|--|
| Ryan Tucker | ttgciitn.com owner |
| rtucker@ttgciitn.com | ann-arbor.mi.us.undernet.org irc admin |
| http://www.ttgciitn.com | netins.net user development group |

466. Re: [APRSSIG:5238] Re: GPS, Altitud

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 17 Dec 1995 07:22:54 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512171322.HAA16101@solar>
Rendered body type: text/plain

David W. Barrow III sez:

>
> Re: induced error
> Personally I think this induced error is "for the birds". Any
> need that might have existed is now gone. Maybe I'll just go to
> LoranC.

The errors involved in the GPS system are of two forms: Induced and Common Mode. Common Mode errors are those inherent to the system design, and seen by everyone. These include minor (read, "minute") changes in orbital parameters that are not accounted for in the Ephemeris data, Single Event Upset errors induced onboard the spacecraft that are self-correcting and transient in nature, multipath error, caused when the signal is received from several reflections, and with associated temporal delay, and atmospheric delay induced by the signal's traverse of the atmosphere, primarily the ionosphere, with a modellable but variable delay value. Longer epoch times and reduced chip count also fall into this category.

Induced errors are those that were designed within the system to provide a level of security to the system and its primary intended users: The US Military. These systems include diddling the PRN's output time signal (not the onboard standard) as well as misreporting ephemeris data slightly. The system is designed so that introduction of SA errors can be modulated depending on the subsatellite point (and obviously, the visibility window) of the PRN. So, it's conceivable that PRN16 might be diddled over, say, Bosnia, but not the Pacific and the US. Or, they might just decide to report PRN 12 as available and healthy over Paris, in honor of the strikes:-)

As to whether the introduction of SA error is necessary any longer, I won't argue. I've my own opinions, and they just may differ from yours. I have been utilizing a DGPS system here (fabricated from stone knives, bear skins and a motorola VP OnCore board) that provides me reproducible 3 meter accuracies with L1 only receivers. What can I say?

73, gerry

467. Something wierd...

From: Ann Reeves <annr@comtch.iea.com>
Date: Sun, 17 Dec 1995 12:06:18 -0800 (PST)
To: aprs <aprssig@tapr.org>
Message-ID: <Pine.SV4.3.91.951217115258.21422A-100000@comtch>
Rendered body type: text/plain

Sometimes while running APRS, my call sign changes all by itself. I suddenly BECOME some other station from my P-list. The only apparent way to get myself back is to leave APRS and start it up again. This may happen several times in one day and then not again for a week.

We want to tell Bob Bruninga about the problem but can't seem to force it to happen so there isn't enough info for him to work with. I know of 2 other people who have had the same thing happen.

It has happened with more than one version (7.2b & 7.3a) All of the us have been registered users running weather with U-II. TNCs have been both KPC3 and PK-88. It MAY be happening as we enter or leave the TNC mode with O-C-T but as I said, I'm unable to make it happen.

It's wierd (disconcerting, too) to all of a sudden have your call sign change. Has this happened to any of the rest of you??

73, Ann WA7ROS and Jim WA7RVV

468. PicoPacket and APRS 74e

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Sun, 17 Dec 95 15:13:59 UTC
To: aprssig@tapr.org
Message-ID: <12219@paccomm.com>
Rendered body type: text/plain

On Tue, 12 Dec 1995, Randy Hall wrote:

>Does APRS74e.zip address the picopacket issues:

Thought I'd publish the information on this interface on the SIG.

This information relates to PicoPacket EPROM dated 12/10/95. Earlier versions may not have the same capabilities.

This applies to a PicoPacket 2 port model with a GPS attached to the 2nd serial port, and also to a PicoPacket with a built-in GPS receiver (which is attached internally to the 2nd serial port).

There are two ways to set up a Pico to interface with APRS without using a port switch cable.

1) Set the LOC command to 'beacon' your GPS string periodically. Perhaps once per minute - user's call as to how often.

```
GPSTEXT $GPGGA (default)
LOC E 6 (once per minute)
ELOC ON
```

The ELOC converts the 'beacon' of Location from the HDLC (radio) port to the terminal serial port. So the Pico 'beacons' and ASCII GPS string out the serial port each minute.

If you later turn ELOC OFF, location beacons will resume on the radio port.

The ELOC technique is also useful for other than APRS applications.

2) Second method: This method will automatically change the PICO from a trakker (location transmitting device) to an APRS TNC.

```
Set the location beacon parameters you want for the TRAKKER:
GPSTEXT $Gxxxx (select GPS string)
LPATH to via path (typically APRS v relay, wide or such)
LOC E 6 (beacon once per minute - you decide how often)
```

This will cause the Pico to beacon its position whenever there is no APRS computer hooked up.

As soon as you hook up a computer running APRS (which was initialized with the command PICO - see Bob's docs) the following happens:

APRS sends out a CTRL-E to the Pico.
The Pico responds with an ASCII beacon of the selected GPS string AND the Pico Location beacon timer is reset to zero.

Whenever APRS wants an update to the fix, it sends a CTRL-E and the Pico

sends the data. Works like the hardware port switch, but it is all done in software. As long as APRS asks for a fix more frequently than the LOC E nn timer is set for, the PICO never beacons.

As soon as you unplug the computer (or stop APRS) the Pico resumes its position beacons.

73, Gwyn

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org
PacComm Packet Radio Systems, Inc. +(813) 874-2980 Fax:+(813) 872-8696
4413 N. Hesperides St. BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA info@paccomm.com http://www.paccomm.com/info

469. Re: [APRSSIG:5248] Re: Grabber.exe

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 15:49:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217154657.29356F@greatlakes>
Rendered body type: text/plain

On Sun, 17 Dec 1995, jim kerns wrote:

> >APR REPLY: Let me give you a hint..... Hold your breath....
> >Watch this net.....
> >
> >From Jim, N4PUQ... what Bob ment was get into windows file manager, and run
> >aprs exe from there. It is not a windows program as yet, but will run that

APR REPLY: No, actually I meant something else... You will notice a product announcement in this months QST saying something about APRS and Windows...

|DE WB4APR in Annapolis MD.|

470. Re: [APRSSIG:5249] TNC Init and Restore

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 15:51:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217155015.29356G-100000@greatlakes>
Rendered body type: text/plain

On Sun, 17 Dec 1995, Mike Walker wrote:

> Now, when I start APRS, what file can I modify to take my KPC-3 out of
> standalone tracker mode and reset all the LTP values to null? Is there an
> INIT.TNC??

APR REPLY: Yes, INITTAPR.TNC or INITAEA.tnc depending on your type of TNC.

|DE WB4APR in Annapolis MD.|

471. Re: [APRSSIG:5254] Something wierd...

From: jkerns@usit.net (jim kerns)
Date: Sun, 17 Dec 1995 04:11:00 -0500
To: aprssig@tapr.org
Message-ID: <199512172115.QAA03160@use.usit.net>
Rendered body type: text/plain

Either GOD or Santa Claus is punishing you.

Jim, N4PUQ

suddenly BECOME some other station from my P-list. The only apparent way
>to get myself back is to leave APRS and start it up again. This may
>happen several times in one day and then not again for a week.
>
>We want to tell Bob Bruninga about the problem but can't seem to force it
>to happen so there isn't enough info for him to work with. I know of 2
>other people who have had the same thing happen.
>
>It has happened with more than one version (7.2b & 7.3a) All of the us
>have been registered users running weather with U-II. TNCs have been both

>KPC3 and PK-88. It MAY be happening as we enter or leave the TNC mode
>with O-C-T but as I said, I'm unable to make it happen.
>
>It's wierd (disconcerting, too) to all of a sudden have your call sign
>change. Has this happened to any of the rest of you??
>
>73, Ann WA7ROS and Jim WA7RVV
>
>
>

472. Re: [APRSSIG:5230] Re: Grabber.exe

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 17 Dec 1995 16:14:44 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512171647.A7510-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

The black APRS map is what inspired me to redraw it using PAINTBRUSH for my home page.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us
http: //ourworld.compuserve.com/homepages/bmanley

On Sat, 16 Dec 1995, jim kerns wrote:

> >
> >William: Thanks for Tip. You and APR got me going. On a color printer,
> APRS map sure looks black. Hi.
> 73 Jim N4PUQ>
>

473. Re: [APRSSIG:5254] Something wierd...

From: "Larry Griffin" <largriff@onramp.NET>
Date: Sun, 17 Dec 1995 15:22:36 +0000
To: aprssig@tapr.org
Message-ID: <199512172124.PAA24626@mailhost.onramp.net>
Rendered body type: text/plain

On 17 Dec 95 at 14:20, Ann Reeves wrote:

> Sometimes while running APRS, my call sign changes all by itself. I
> suddenly BECOME some other station from my P-list.
>
> 73, Ann WA7ROS and Jim WA7RVV

I've had that happen to me too, but very infrequently, i.e. less than once a month. My station runs APRS 24 hrs a day on VHF with U-II and a KAM. It has happened to me while I was away from the keyboard, so I don't think it has anything to do with O-C-T use as you mentioned. But I haven't found any other clues as to what might be the cause.

Larry Griffin <largriff@onramp.net>

474. Re: [APRSSIG:5255] PicoPacket and APRS 74e

From: gwelte@blueox.bji.net (George A. Welte)
Date: Sun, 17 Dec 1995 15:41:46 -0600
To: aprssig@tapr.org
Message-ID: <v0153050aacf9eacd33a3@[206.31.226.34]>
Rendered body type: text/plain

HELP [APRS74C With ULTIMITER 2000 and AEA PK12] CAN'T GET IT TO WORK

475. Accessing ftp://tapr.org

From: Alan Unangst <alanwc7r@primenet.com>
Date: Sun, 17 Dec 1995 15:51:51 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <30D49F07.3F4E@primenet.com>
Rendered body type: text/plain

I am having trouble accessing ftp://tapr.org/tapr/SIG/aprssi/upload when using the Microsoft Internet Exploror (release version) and Windows95, when in the "Favorite Links" area. Has anyone else had this

problem, and if so what did you do to fix it???

I did not have this problem in the Beta version. (It wasn't broken so MS had to fix it)!

I have not had any problems with Netscape v. 2.0. Its' "Bookmarks" work every time. Maybe I should just kiss off Billy Gates and his attempt to enter the world of Cyber Space???

Thanks for any ideas.

73.....Alan, WC7R

476. Re: [APRSSIG:5253] Re: GPS, Altitud

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 18:15:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217180119.29992B-100000@greatlakes>
Rendered body type: text/plain

Someone said:

>
> Re: induced error
> Personally I think this induced error is "for the birds". Any
> need that might have existed is now gone. Maybe I'll just go to
> LoranC.

APR REPLY: A decent percentage of the people on this net could probably get together, and with less than the investment it takes to buy a new car, could build a CRUISE MISSILE using GPS to target any spot on the surface of the earth. I personally am thankful that the government is providing some protection for us in the form of SA.

When you consider the resources and money available to the crazies in the middle east, the individual making the above statement is "misinformed".

His reply will be that what difference does 50 meters mean when you deliver a bomb? Again, he is misinformed. The 100 meter randomness is only the RESULT of SA as seen in POSITS. The real effect of SA is in the velocity component which, when you are cruising at several hundred miles per hour even the slightest errors will make you miss your target by A LOT MORE THAN 100 meters.

Be thankful that we civilians get to play with these high tech toys in a free and open society. Which a lot of folks would like to destroy...

I donno what this has to do with APRS, but sometimes I get a little patriotic...

|DE WB4APR in Annapolis MD.|

477. Re: [APRSSIG:5254] Something wierd...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 18:18:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217181621.29992C-100000@greatlakes>
Rendered body type: text/plain

On Sun, 17 Dec 1995, Ann Reeves wrote:

> Sometimes while running APRS, my call sign changes all by itself. I
> suddenly BECOME some other station from my P-list. The only apparent way
> to get myself back is to leave APRS and start it up again. This may
> happen several times in one day and then not again for a week.

APR REPLY: Very disconcerting, but I can't find the problem in the code... I haven't seen it in over 2 years.... but we have to trap this gremlin in a reproducible way... So when you see it happen to you, figure out what may be unique about your station or the NET and feedback to me...

|DE WB4APR in Annapolis MD.|

478. Re: [APRSSIG:5261] Re: PicoPacket and APRS 74e

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 18:25:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217182347.29992E-100000@greatlakes>
Rendered body type: text/plain

On Sun, 17 Dec 1995, George A. Welte wrote:

> HELP [APRS74C With ULTIMETER 2000 and AEA PK12] CAN'T GET IT TO WORK

APR REPLY: This is a quite ambiguous statment.

What does it DO?

|DE WB4APR in Annapolis MD.|

479. Re: [APRSSIG:5258] Re: Something wierd...

From: jleonard@tbcnet.com (John B. Leonard)
Date: Sun, 17 Dec 1995 17:26:03 -0600
To: aprssig@tapr.org
Message-ID: <199512172326.RAA15089@tbc2.tbcnet.com>
Rendered body type: text/plain

>Either GOD or Santa Claus is punishing you.

>

>Jim, N4PUQ

>

>suddenly BECOME some other station from my P-list.

Well, Jim, somebody's punishing a lot of us...

It happened to me with the following situation:

- 1 KPC-3 w/ U-II running 24hr.
- 2 Remote connect to WA9CJN wide to change parameters
- 3 I think CJN heard a station, then mine took on that station's
callsign.

It only happened once under those conditions.

Also, can somebody tell me why my computer/APRS/U-II will go into the UNPROTO screen overnight when I set the Screensaver function on. Often when that happens, the buffer starts filling. The screen quits updating til I attend to it, then the buffer dumps into the P-list.

Oh, the bandpass filter continues to crank along great. Best \$89 I've spent on this APRS system.

J Barry Leonard N9VJQ
Subependymoma
DeKalb IL
E-MAIL: jleonard@tbcnet.com

480. Stolen callsigns

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 21:01:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217205901.393E-100000@greatlakes>
Rendered body type: text/plain

Well from the few messages already, it seems like the common thread is the WX station. I will assume that is the area for me to look...

QUESTION: Has anyone seen this happen that IS *NOT* running a WX station?

|DE WB4APR in Annapolis MD.|

481. APRS- help...

From: geh@aip.org (gordon_hardman)
Date: Sun, 17 Dec 95 21:02:03 EST
To: aprssig@tapr.org
Message-ID: <9512180202.AA06413@aip.org>

Rendered body type: text/plain

Can anyone tell me the incantations required in order to enable tracking of a mobile station in APRS? I have been listening on .79 for about a week, but have not heard (seen?) a soul. Things are rather quiet in the Denver area. Consequently, I have constructed a mobile station using a Magellan Trailblazer XL, TRS80 model 102 as NMEA NC and Icom P2AT radio. It all works fine, and the message it sends looks just like the description in "Protocols.TXT" for a mobile. I can adjust the rate to whatever I like, or send an averaged position fix. It all appears at the bottom of the APRS74e screen, but I can't seem to find the magic sequence of keystrokes to get it displayed on the screen!

I have pored over the so-called documentation, but there is nothing in the way of a tutorial on tracking. I went through all the menu commands by letter, but nothing looks likely. What am I doing wrong? Also, what does the "Channel Loading" number at the bottom right mean? Mine frequently reads numbers in the 200-300% range when monitoring a channel that sounds about 10% full!

Gratefull for any pointers!

73

Gordon Hardman KE3D

Boulder, CO

<geh@aip.org>

4002.90N/10517.55W/5500ft

482. Re: [APRSSIG:5263] Re: GPS, Altitud

From: Doug Henry <dhenry@SIRNet.mb.ca>

Date: Sun, 17 Dec 1995 21:58:46 -0600 (CST)

To: aprssig@tapr.org

Cc: aprssig@tapr.org

Message-ID: <Pine.LNX.3.91.951217215135.8235B-100000@sir1.sirnet.mb.ca>

Rendered body type: text/plain

certainly agree with you on this bob, civilians now have access to unprecedented levels of technology.

On Sun, 17 Dec 1995, Bob Bruninga wrote:

>
> Someone said:
> >
> > Re: induced error
> > Personally I think this induced error is "for the birds". Any
> > need that might have existed is now gone. Maybe I'll just go to
> > LoranC.
>
> APR REPLY: A decent percentage of the people on this net could probably
> get together, and with less than the investment it takes to buy a new car,
> could build a CRUISE MISSILE using GPS to target any spot on the surface
> of the earth. I personally am thankful that the government is providing
> some protection for us in the form of SA.
>
> When you consider the resources and money available to the crazies in
> the middle east, the individual making the above statement is
> "misinformed".
>
> His reply will be that what difference does 50 meters mean when you
> deliver a bomb? Again, he is misinformed. The 100 meter randomness
> is only the RESULT of SA as seen in POSITS. The real effect of SA is in
> the velocity component which, when you are cruising at several hundred
> miles per hour even the slightest errors will make you miss your target
> by A LOT MORE THAN 100 meters.
>
> Be thankful that we civilians get to play with these high tech toys in a
> free and open society. Which a lot of folks would like to destroy...
>
> I don't know what this has to do with APRS, but sometimes I get a little patriotic...
>
> -----
> |DE WB4APR in Annapolis MD.|
> -----
>

483. Re: [APRSSIG:5254] Something wierd...

From: rwf <rwf@mindspring.com>

Date: Sun, 17 Dec 1995 22:50:59 -0500

To: aprssig@tapr.org

Message-ID: <199512180350.WAA17855@borg.mindspring.com>

Rendered body type: text/plain

Me Too!! I seem to become someone else sometimes, as well. I am running a U-II and have had this problem in *at least* all of version 74. It may have something to do with when I "hook" another station and leave it hooked. I think that is the station I become. The only way I can fix it is to restart with a virgin config file.

At 02:19 PM 12/17/95 -0600, you wrote:
>Sometimes while running APRS, my call sign changes all by itself. I
>suddenly BECOME some other station from my P-list. The only apparent way
>to get myself back is to leave APRS and start it up again. This may
>happen several times in one day and then not again for a week.
>
>We want to tell Bob Bruninga about the problem but can't seem to force it
>to happen so there isn't enough info for him to work with. I know of 2
>other people who have had the same thing happen.
>
>It has happened with more than one version (7.2b & 7.3a) All of the us
>have been registered users running weather with U-II. TNCs have been both
>KPC3 and PK-88. It MAY be happening as we enter or leave the TNC mode
>with O-C-T but as I said, I'm unable to make it happen.
>
>It's wierd (disconcerting, too) to all of a sudden have your call sign
>change. Has this happened to any of the rest of you??
>
>73, Ann WA7ROS and Jim WA7RVV
>
>

484. Re: [APRSSIG:5266] Re: Something wierd...

From: rwf <rwf@mindspring.com>
Date: Sun, 17 Dec 1995 22:51:09 -0500
To: aprssig@tapr.org
Message-ID: <199512180351.WAA17883@borg.mindspring.com>
Rendered body type: text/plain

At 05:45 PM 12/17/95 -0600, Barry Leonard wrote:
>
>Oh, the bandpass filter continues to crank along great. Best \$89 I've spent
>on this APRS system.

That reminds me of something I saw in Dallas last week that I just had to laugh at.

I went to Tucker Electronics. Their bandpass filter is 59.00 or so and is very small (about 2"x3")
It has a power lead on it. The salesman (and also a different person on a different day) told me "it works great, you never hear any intermod".

No wonder! The thing has 6 db of insertion loss! They do not print the specs, but both salesmen told me this. How do you transmit after you have inserted a device that halves your power twice? The power lead on it is to power a Tx/RX (pin diode?) switch so you can pass 50 W thru it.

Let's all go buy something that cuts our receiver sensitivity in half twice so we don't hear intermod. Sure hope your digis and repeaters are REAL close, and forget about simplex.

485. Re: Overflow with U-2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 23:13:28 -0500 (EST)
To: moyers@ibm.net
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217230749.826A-100000@greatlakes>
Rendered body type: text/plain

OK, now I am beginning to understand, I may have some fine tuning of the U-2000 to go yet. Sending this to the SIG too so that anyone else that is having problems with my interface to the U-2000 can all reply at once..

NOTE TO THE SIG: Remember that there are dozens of messages here every day and I can not keep in my mind any on-going dialog with each individual, although i recognize most of you well, I just cant keep it all straiight, hi hi. So each time you report a problem, you have got to put it ALL in that one message. Each follow up message on the same subject should not assume that I remember much if any from the previous

message... hi hi

|DE WB4APR in Annapolis MD.|\n-----

486. Re: [APRSSIG:5268] APRS- help...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Dec 1995 23:25:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951217231720.826B-100000@greatlakes>
Rendered body type: text/plain

On Sun, 17 Dec 1995, gordon_hardman wrote:

> quiet in the Denver area. Consequently, I have constructed a mobile
> station using a Magellan Trailblazer XL, TRS80 model 102 as NMEA
> NC and Icom P2AT radio. It all works fine, and the message it sends
> looks just like the description in "Protocols.TXT" for a mobile. I can

It sounds like you are doing it the hardway... Do you mean you are using
the 102 to parse and BUILD an APRS position packet?

If so, then here is what it should look like as a standard packet
monitored on any TNC or the APRS bottom line:

W3XYZ>APRS,DIGI:@DDHMM/3859.11N/10504.44W.....

Everything after the W is optional
The packet and HEADER must be on the same line.
When APRS displays this on the bottom line, it also shows WHAT IT DID
WITH IT. If it says POS..... the it was interpreted as a POS.
If it says BCN, then it was NOT a pos and was placed on the LATEST list.

If it was your own packet it says MY.....
if it has no header then it says NO>
etc...

But you dont need the 102 if you use a new TNC that will just transmit the
RAW NMEA strings at a much slower rate. APRS parses the raw NMEA right
off the air...

Hope this helps... OH, be sure that you are not using the SAME call for
your mobile and APRS. (different SSID's are OK) Otherwise it is ignoring
"itself" and thats why its not putting you on the map...

|DE WB4APR in Annapolis MD.|\n-----

487. Hookup's

From: ke4eer@ro.com (William Nolle)
Date: Sun, 17 Dec 1995 23:09:55
To: aprssig@tapr.org
Message-ID: <199512180617.AAA11435@sh1.ro.com>
Rendered body type: text/plain

You know it would be just great if somebody that's well versed on the subject
of hooking up WX,GPS,TNC;s etc would come up with a list on how to do's.
I see so many messages how do you hook this up and how do you hook that
up. I have one right now. SINce ny WX station got hit by lightning and is now
fixed but was running on an old 8088 IBM. I now want to setup a standalone
weather station using a TNC, Radio only. I can use a KPC3,Tiny-2,DRSI DPK2
but would like to know the whole setup, and yes i know there's something
about this in the doc's, but there are many of us that are good at one thing
but not another. Boy that would sure solve a lot of problems users have that
i see questions about. I would like to make another GPS tracker but don't
want to go through all that stuff (Had a better word for stuff but didn't want to
use it hi) i went through with the Magellan NAV5000DX and the KPC3. So it
would really be great for all users to be able to download a file from Tapr on
HOW TO HOOKUP and PROGRAM ur TNC etc. Just an idea fellows. All i see
all the time is a buch of gobblegook and technical terms that an old man like
me just doesn't even want to read hi. Go ahead with the flame throwers again
i just bought a fireproof suit har har.

Bill KE4EER
ke4eer@ro.com

488. Re: [APRSSIG:5261] Re: PicoPacket and APRS 74e

From: schiers@ibm.net (hasan schiers)
Date: Mon, 18 Dec 95 00:24:30 EST
To: aprssig@tapr.org
Message-ID: <199512180948.JAA17445@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Sun, 17 Dec 1995 15:52:32 -0600 (CST) you wrote:

>HELP [APRS74C With ULTIMETER 2000 and AEA PK12] CAN'T GET IT TO WORK

APRS does not currently support the U-2000. It has some bugs. Bob has been informed of the over run problem and is working on it.

Further...your message for help is nearly worthless...what doesn't work? How doesn't it work? Can't get it to work tells us next to nothing. If you want help, be more specific and many of us would try. I have a U-2000 running right now, but since APRS is experiencing overruns, I am not running APRS as of two days ago.

My theory is that the data output from the U-2000 is so much more intensive (at 90 data sentences per minute), compared to the U-II (at about 17 per minute), that Bob's program can't hack it until he makes some modifications.

Will keep the sig informed, if Bob makes some progress (as I am sure he will, as well.)

73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

489. Re: [APRSSIG:5209] It happened

From: ke4eer@ro.com (William Nolle)
Date: Mon, 18 Dec 1995 06:18:43
To: aprssig@tapr.org
Message-ID: <199512181325.HAA17285@sh1.ro.com>
Rendered body type: text/plain

Well you can START using age as an excuse around 60+ that gives you some idea Shannon Hi. But not having made a mistake at all upto that point not many people can claim that Hi Hi.

Bill KE4EER

>William Nolle writes:
>> Well it finaslly happened. The FIRST mistake i ever made in my life, and it
>....
>> it wasn't already their.Go ahead guys and laugh all you guys are hopefully
>> going to get to this age also Hi Hi.
>>
>> Bill KE4EER (Hiding head in shame)..
>
>I'm not laughing, but just how old are you? I'd like to know when -I- can
>start using age as an excuse. ;-)
>
>--Shannon, DL6SEU (33 years old)
>

490. MacAPRS

From: ah586@detroit.freenet.org (Steve Sable)
Date: Mon, 18 Dec 1995 08:07:41 -0500
To: aprssig@tapr.org
Message-ID: <199512181307.IAA09857@detroit.freenet.org>
Rendered body type: text/plain

Where can I find this Windows demo
of APRS at? What is it called?

--
_ | _ | _ | \ \ / _ | ah586@detroit.freenet.org
 \ \ _ | _ | \ \ / _ | N8NYU
 _ / _ | _ | \ / _ | Maybee, Michigan

491. RE: [APRSSIG:5199] Re: Grabber.exe

From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Date: Fri, 15 Dec 1995 16:14:58
To: aprssig@tapr.org
Message-ID: <199512181340.IAA11892@manny.rcinet.com>
Rendered body type: text/plain

I've had good luck using Alt-Print Screen to capture APRS and other screens while running under windows. Use Ctrl-V or Edit-Paste to paste the image into your favorite graphics editor.

Hope this helps.

>>

>>To save an APRS screen, simply run APRS from windows, press the

>PRINT-SCREEN

>>KEY and then exit APRS. When you bring up PAINTBRUSH, you will find the

>>APRS screen on your clipboard. Load it and have fun!

>>

>>

>>-----
>>|DE WB4APR in Annapolis MD.|
>>-----

>Bob I tried but it didnt save to clipboard, but I'll try a few more times.

>Thanks.

>Jim

>N4PUQ>

>>

>>

>

>

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

492. RE: [APRSSIG:5231] Re: MS report

From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Date: Mon, 18 Dec 1995 08:40:05
To: aprssig@tapr.org
Message-ID: <199512181340.IAA11893@manny.rcinet.com>
Rendered body type: text/plain

Steve,

Yes, I received two copies. One at arinc.com and another at rcinet.com. Thanks for the fine work you are doing to help coordinate APRS activities here in the tri-state.

73

On Sat, 16 Dec 1995 10:29:23 -0600 (CST),
aprssig@tapr.org wrote...

>Did you get a copy of the TAWG newsletter for 12/95 via internet?

>

>Some folks did not get it for some reason.

>

>There will be a TAWG meeting and APRS presentation at the Packet Symposium,

>20 JAN 96, in Middletown, Ohio. I'll put out more info later.

>

>73,

>

>Steve Caesar

>

>AA8JK

>

>AA8JK@aol.com

>

>

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com

Home: rholbert@rcinet.com
WWW: http://www.dma.org/~holbertr

493. Re: [APRSSIG:5267] Stolen callsigns

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Mon, 18 Dec 1995 05:44:02 -0800
To: aprssig@tapr.org
Message-ID: <199512181344.FAA10277@ix2.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>

>Well from the few messages already, it seems like the common thread is
>the WX station. I will assume that is the area for me to look...

>

>QUESTION: Has anyone seen this happen that IS *NOT* running a WX
>station?

I haven't seen it on my WX station, but it has popped up once or twice in
the car with HSP. Every once in a great while, my call will pop up in the
P-list with one extra character.

Jack

494. Re: [APRSSIG:5277] MacAPRS

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Mon, 18 Dec 95 9:15:42 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.819296142.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

>

> Where can I find this Windows demo
> of APRS at? What is it called?

>

The new program is called WinAPRS, and it will be limited Beta SOON.

Watch the SIG for announcements..

Keith

| | |
|---------------------------------------|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www.ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

495. changing call signs

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 18 Dec 1995 08:26:04 -0600
To: aprssig@tapr.org
Message-ID: <2.2b9.32.19951218142604.00757620@144.188.134.33>
Rendered body type: text/plain

>Sometimes while running APRS, my call sign changes all by itself. I
>suddenly BECOME some other station from my P-list. The only apparent way
>to get myself back is to leave APRS and start it up again. This may
>happen several times in one day and then not again for a week.

Yes this has happened to me where I will get a -X, where I had a -nothing,
or an extra letter thrown in towards the beginning of my call. Many times I
can hook it and delete it. Sometimes not. Not enough data to discern between
operator error and system bug....

Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles).

496. APRS WX stuff

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Dec 1995 10:38:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951218103140.6088B-100000@greatlakes>
Rendered body type: text/plain

1) The problem of "stolen calls" was when your station would acquire some
one else's callsign for itself and place it in the 1st position of the P-LIST.

I found a quaint set of circumstances that could cause this to happen...
it will be fixed in the next version.

2) I have hooked my U-2000 back up and it seems to run fine. Would those stations having problems, set your WX update rate at something short like 8 seconds and then comment on any changes in the observed symptoms relative to what you were experiencing before? Thanks...

[DE WB4APR in Annapolis MD.]

497. Re: [APRSSIG:5280] Re: Stolen callsigns

From: rwf <rwf@mindspring.com>
Date: Mon, 18 Dec 1995 10:54:06 -0500
To: aprssig@tapr.org
Message-ID: <199512181554.KAA15831@borg.mindspring.com>
Rendered body type: text/plain

At 07:57 AM 12/18/95 -0600, Jack wrote:

>

>I haven't seen it on my WX station, but it has popped up once or twice in
>the car with HSP. Every once in a great while, my call will pop up in the
>P-list with one extra character.

Jack- That is a different problem. Bob says the problem you are seeing
(and it happens *a lot* with my HSP- I think because I have a very fast GPS
screen update posrate) is from garbage being received during/after the
switch from tnc to gps and back. I usually have 5 or 6 bogus mutations of
calls on my p list until I delete them

Ralph

498. Re: [APRSSIG:5247] Re: GPS, Altitude and general thoughts.

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Mon, 18 Dec 1995 10:58:19 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199512181758.KAA29734@usr5.primenet.com>
Rendered body type: text/plain

>1 - Altitude accuracy is always about 50% worse than positional accuracy.
> This has to do largely with all the satellites being over your head. If
>there were visible satellites both above you and below you, then the
>triangulation would yield better altitude accuracy. Unfortunately, our
>planet gets in the way of that. I never pay any attention to the altitude
>readout. It has very limited value.

Let us not also forget that our Horizontal position is usually not outputted
in feet or meters, but in degrees...much bigger units than feet.

Mark Fellhauer
KC7BX5
sparkfel@primenet.com

499. Previous call for help

From: gwelte@blueox.bji.net (George A. Welte)
Date: Mon, 18 Dec 1995 12:10:57 -0600
To: aprssig@tapr.org
Message-ID: <v01530500acfb051b79ef@[206.31.226.34]>
Rendered body type: text/plain

Agreed, mu previous call for help was very generic but it was my first time
on line with tapr.org and I didn't know what to expect. I am, however very
pleased with the response.

Realizing the U-2000 is not operating properly with the APRS74e program I
still must be doing something wrong since my station does not even come up
on the map (discounting the weather). Listed below are the commands I put
into the TNC for a remote weather station operation. I will try the single
port mode later.

Echo "Off"
Flow "Off"
Ilfpack "On" (LFIgnore)
CPactime "On"
SENDPAC "\$01"
Conmode "CONVERSE"

My "N0WBU-1"
UN APRS VIA RELAY
GLOCTX "60"
BT @ 230911/4733.30N/09452.59W_Bemidji Weather
Beacon E 60
GNMEA1 \$ULTW
TBAUD "2400"
RESTART
"Then I was putting in GPSMode 2, but now I understand that shouldn't be done".
"I then turn off the TNC and plug in the U-2000 with the green wire going
to pin 2 on the TNC and the black wire going to pin 1 or ground. The
U-2000 mode is programmed to the packet mode. (clear with wind chill)

I have tried many alternatives but to no avail.
I am using an AEA Pk-12 along with the U-2000

Any help will be appreciated - then I'll worry about the 2000 when Bob gets
it working.
Good work everyone and Thanks.

GAW (N0WBU) Bemidji, Minnesota - gwelte@blueox.bji.net

500. Re: [APRSSIG:5284] Re: Stolen callsigns

From: "Jack Anderson" <janderson@ram.net>
Date: Mon, 18 Dec 95 13:09:47 GMT
To: aprssig@tapr.org
Message-ID: <15021591.1055@ram.net>
Rendered body type: text/plain

>Jack- That is a different problem. Bob says the problem you are seeing
>(and it happens *a lot* with my HSP- I think because I have a very fast GPS
>screen update posrate) is from garbage being received during/after the
>switch from tnc to gps and back. I usually have 5 or 6 bogus mutations of
>calls on my p list until I delete them
>
>Ralph

I kind of wrote it off as an RS-232 glitch. There's a lot of data flying
around on that interface when HSP is running.

It would be interesting to survey the folks experiencing the problem to
determine a few facts about the hardware they are running - i.e., CPU type
and speed, and type of UART on the serial interface. It would not surprise
me if we see a correlation with the problem and the use of 16450 or 8250 UART
chips.

Jack

janderson@ram.net
n4uls@ix.netcom.com

501. Re: [APRSSIG:5264] Re: Something wierd...

From: AA8JK@aol.com
Date: Mon, 18 Dec 1995 13:40:15 -0500
To: aprssig@tapr.org
Message-ID: <951218134013_57503430@mail04.mail.aol.com>
Rendered body type: text/plain

I have had this "new callsign" problem many times when I leave APRS with the
O-C-T operation.

This has also happened when someone connected to my station with a normal
packet connect.

I have watched the program change back to the APRS screen from the blue
screen many times. It looks like, if my system gets position information
from someone else at the time of changeover, it will grab that information,
not my information.

I have never seen this happen with my PK-232 or my KPC-3, just my KAM.

My Gate set-up:

XT computer w/VGA
Older KAM on com 1
WX station on com 2
Kenwood VHF rig
Yaesu HF rig

Bob once said to make sure I was in the cmd: mode before going back into APRS, but it didn't work. Is it just a KAM problem?

Steve Caesar AA8JK

TRI-STATE APRS WORKING GROUP (TAWG)

AA8JK@aol.com

502. APRS OVER LL BBS?

From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Date: Mon, 18 Dec 1995 14:23:13
To: aprssig@tapr.org
Message-ID: <199512181923.OAA02020@manny.rcinet.com>
Rendered body type: text/plain

Is it possible to receive APRS data over a telephone type modem via a land-line bbs with a tnc door? Has anyone tried this?

Thanks

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

503. Re: [APRSSIG:5289] APRS OVER LL BBS?

From: ke4eer@ro.com (William Nolle)
Date: Mon, 18 Dec 1995 14:11:30
To: aprssig@tapr.org
Message-ID: <199512182118.PAA05823@sh1.ro.com>
Rendered body type: text/plain

On the same note i have been pondering the idea of using Internet Iphone for packet (Is there any reason this won't work?). Just think of that. We could actually see APRS activity from all over the world.

Bill KE4EER

>Is it possible to receive APRS data over a telephone type modem via a
>land-line bbs with a tnc door? Has anyone tried this?

>

>Thanks

>

>

>

>Rick Holbert

>

>Ham: KB8DNR

>Work: rholbert@arinc.com

>Home: rholbert@rcinet.com

>WWW: <http://www.dma.org/~holbertr>

>

>

504. RE: APRS Over LL BBS?

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Mon, 18 Dec 95 15:02:30 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.819316950.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

> Is it possible to receive APRS data over a telephone type modem via a
> land-line bbs with a tnc door? Has anyone tried this?

>

Would this be possible? Sure..

Will it work now??? NO...

The problem is that the data that gets sent via the SERIAL PORT is only the DATA part of the packet, i.e.

@181200/4012.34N/07412.34W Metc etc etc

The part that the program expects to see is:

WU2Z*>APRS:<the same as above)

The call sign and TO field (APRS) get added by the TNC, and this would not be present if you simply hooked the serial ports to a pair of modems..

For it to be possible, we (Bob and I) would have to write a NEW mode, and it probably wouldn't be worth it..

You could however, dump P-Lists, and send them over a modem, and load them in at the other end..

Keith

| | |
|---|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

505. Re: [APRSSIG:5216] MAPLISTS and Bill's challenge!

From: WB4LTF@aol.com
Date: Mon, 18 Dec 1995 15:33:36 -0500
To: aprssig@tapr.org
Message-ID: <951218153334_93630136@emout06.mail.aol.com>
Rendered body type: text/plain

Great Idea!!!! Bill's not the only having trouble...
I'm lucky to get the programs running let alone changing them:-)
Bud
wb4ltf@aol.com

506. Re: [APRSSIG:5289] APRS OVER LL BBS?

From: Alan Unangst <alanwc7r@primenet.com>
Date: Mon, 18 Dec 1995 13:25:50 -0700
To: aprssig@tapr.org
Message-ID: <30D5CE4E.2017@primenet.com>
Rendered body type: text/plain

Richard L. Holbert wrote:

>
> Is it possible to receive APRS data over a telephone type modem via a
> land-line bbs with a tnc door? Has anyone tried this?
>
> Thanks
>
> Rick HolbertYes. We use it here in North Central Arizona. Try contacting KB7FRV @
KB7FRV.(Packet) Leonard can give you all the information. Good Luck &
73,
Alan, WC7R.....alanwc7r@primenet.com

>
> Ham: KB8DNR
> Work: rholbert@arinc.com
> Home: rholbert@rcinet.com
> WWW: <http://www.dma.org/~holbertr>

507. Re: [APRSSIG:5286] Previous call for help

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Dec 1995 15:09:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951218150327.12099A-100000@greatlakes>
Rendered body type: text/plain

On Mon, 18 Dec 1995, George A. Welte wrote:

> Realizing the U-2000 is not operating properly with the APRS74e program

APR REPLY: It sounds to me like you are saying that your U-2000 does not work with your TNC. APRS has nothing to do with interfacing your WX stn to your TNC. You still havent told us WHAT IS WRONG?

Is the TNC transmitting packets? Are they WX packets? What do they look like off the air?

Not until we know that valid packets are getting from your remote WX station and what they look like as received off the air, will we be able to help. APRS is not even involved.. until it sees SOMETHING.....

> still must be doing something wrong since my station does not even come up
> on the map (discounting the weather).

APR: WHAT STATION? The remote WX station or the APRS receiving station?

Listed below are the commands I put

> into the TNC for a remote weather station operation. I will try the single
> port mode later.
> Echo "Off"
> =46low "Off"
> Ilfpack "On" (LFIgnore)
> CPactime "On"
> SENDPAC "\$01"
> Conmode "CONVERSE"
> My "N0WBU-1"
> UN APRS VIA RELAY
> GLOCTX "60"
> BT @ 230911/4733.30N/09452.59W_Bemidji Weather
> Beacon E 60
> GNMEA1 \$ULTW
> TBAUD "2400"
> RESTART
> "I then turn off the TNC and plug in the U-2000 with the green wire going
> to pin 2 on the TNC and the black wire going to pin 1 or ground. The
> U-2000 mode is programmed to the packet mode. (clear with wind chill)
>
> I have tried many alternatives but to no avail.
> I am using an AEA Pk-12 along with the U-2000
>
> Any help will be appreciated - then I'll worry about the 2000 when Bob gets
> it working.
> Good work everyone and Thanks.
>
> GAW (N=D8WBU) Bemidji, Minnesota - gwelte@blueox.bji.net
>
>
>

[DE WB4APR in Annapolis MD.]

508. Re: [APRSSIG:5280] Re: Stolen callsigns

From: bob <w2g3zfy@unix.asb.com>
Date: Mon, 18 Dec 1995 15:28:31 -0500
To: aprssig@tapr.org
Message-ID: <199512182028.PAA27725@UNIX.asb.com>
Rendered body type: text/plain

Hi Folks

Just to note that I frequently (once or twice a day) get my callsign in the p-list with a 'c' in front of it. At present I am not using a wx station (to much rfi at the new QTH!) I do run it in 2 port HF mode with a KAM at 9600 baud and ver74e.

Hope this helps

73 de bob w2g3zfy@unix.asb.com

At 07:57 18/12/95 -0600, you wrote:

>You wrote:

>>

>>Well from the few messages already, it seems like the common thread is

>>the WX station. I will assume that is the area for me to look...
>>
>>QUESTION: Has anyone seen this happen that IS *NOT* running a WX
>>station?
>
>I haven't seen it on my WX station, but it has popped up once or twice in
>the car with HSP. Every once in a great while, my call will pop up in the
>P-list with one extra character.
>
>Jack
>
>
>
>

509. Re: [APRSSIG:5267] Stolen callsigns

From: WB4LTF@aol.com
Date: Mon, 18 Dec 1995 16:53:06 -0500
To: aprssig@tapr.org
Message-ID: <951218165304_93703473@mail02.mail.aol.com>
Rendered body type: text/plain

Hate to be the bearer of bad news, but it has happened to me on at least one occasion and I do not have a wx station.

I'm running 7.4e, and an AEA 232 (old(no mailbox etc)) multitasking from Windows.

I think I had switched back to Windows (3.11), done some things and switched back to APRS and there I was, someone else!!! I had attributed it to the large P-list (about 5 pages) but that was a guess.

I also get some other Call sign changes that show up as Wi4XXX with the lower case i instead of the correct call.

In either case, I can hook my or the other call, delete it and under it is the correct Call.

For whatever this is worth!

Bud
wb4ltf@aol.com

510. Re: [APRSSIG:5278] Re: Grabber.exe

From: WB4LTF@aol.com
Date: Mon, 18 Dec 1995 16:53:09 -0500
To: aprssig@tapr.org
Message-ID: <951218165306_93703496@emout05.mail.aol.com>
Rendered body type: text/plain

It works for me!!! I also invert the image while in paintbrush to get rid of all the black...

Bud
wb4ltf@aol.com

511. APRS not working on com 3

From: ndavis@spider.lloyd.com (Norman Davis)
Date: Mon, 18 Dec 1995 12:33:22 +0000
To: aprssig@tapr.org
Message-ID: <m0tRmJg-000TsYC@spider.lloyd.com>
Rendered body type: text/plain

I installed a new VLB enhanced IO board in the machine and I can get everything to work on com 3 but aprs. Anyone have any Ideas.

Norm WB6SHI

512. RE: [APRSSIG:5291] RE: APRS Over LL BBS?

From: "Richard L. Holbert" <rholtbert@manny.rcinet.com>
Date: Mon, 18 Dec 1995 17:13:22
To: aprssig@tapr.org
Message-ID: <199512182214.RAA24366@manny.rcinet.com>
Rendered body type: text/plain

Ah, but, what I want to do is to use a machine with two serial ports. Com1 hooked to the TNC and Com2 hooked to the modem. The computer just repeats what it hears on the TNC over the modem. The computer with the TNC doesn't even need to run APRS, but the computer on the other side of the telephone line would be running APRS without a TNC.

This is just an extension of Bob's op-center idea, but using modems in lieu of serial lines.

On Mon, 18 Dec 1995 15:09:58 -0600 (CST),
aprssig@tapr.org wrote...
>> Is it possible to receive APRS data over a telephone type modem via a
>> land-line bbs with a tnc door? Has anyone tried this?
>>
>
>
>Would this be possible? Sure..
>
>Will it work now??? NO..
>
>
>
>The problem is that the data that gets sent via the SERIAL PORT is only
>the DATA part of the packet, i.e.
>
> @181200/4012.34N/07412.34WMetc etc etc
>
>The part that the program expects to see is:
>
> WU2Z*>APRS:<the same as above>
>
>
>The call sign and TO field (APRS) get added by the TNC, and this would
>not be present if you simply hooked the serial ports to a pair of modems..
>
>
>For it to be possible, we (Bob and I) would have to write a NEW mode, and
>it
>probably wouldn't be worth it..
>
>You could however, dump P-Lists, and send them over a modem, and load them
>in
>at the other end..
>
>
>Keith
>
>
>
>Keith Sproul Ham Radio: WU2Z
>Student Housing Network Coordinator ksproul@noc.rutgers.edu
>Rutgers University Computing Services 908 445-3695 Work 908 445-2968
>Fax
>http://www-ns.rutgers.edu/~ksproul/ 908 821-4828 Home
>
>

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: http://www.dma.org/~holbertr

513. RE: [APRSSIG:5290] Re: APRS OVER LL BBS?

From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Date: Mon, 18 Dec 1995 17:22:20
To: aprssig@tapr.org
Message-ID: <199512182222.RAA27058@manny.rcinet.com>
Rendered body type: text/plain

Another idea would be to define a viewer for APRS data and use the World Wide Web for distro. The viewer would first check your local system for the appropriate map, and if it isn't there, download it. It would then update position information as it is received. Just an idea. The actual implementation would probably be too slow for practical application.

On Mon, 18 Dec 1995 15:03:43 -0600 (CST),
aprssig@tapr.org wrote...
>On the same note i have been pondering the idea of using Internet Iphone
>for packet (Is there any reason this won't work?). Just think of that. We
>could
>actually see APRS activity from all over the world.
>

```

>Bill KE4EER
>-----
>>Is it possible to receive APRS data over a telephone type modem via a
>>land-line bbs with a tnc door? Has anyone tried this?
>>
>>Thanks
>>
>>
>>Rick Holbert
>>
>>Ham: KB8DNR
>>Work: rholbert@arinc.com
>>Home: rholbert@rcinet.com
>>WWW: http://www.dma.org/~holbertr
>>
>>
>
>
>

```

Rick Holbert

```

Ham: KB8DNR
Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: http://www.dma.org/~holbertr

```

514. Re: [APRSSIG:5291] RE: APRS Over LL BBS?

```

From: ke4eer@ro.com (William Nolle)
Date: Mon, 18 Dec 1995 16:24:10
To: aprssig@tapr.org
Message-ID: <199512182331.RAA16056@sh1.ro.com>
Rendered body type: text/plain

```

Well Keith i wasn't thinking of sending the data via serial port, but rather via audio via soundblaster and Iphone. Maybe i'm still wrong about this but arent we doing the same thing now. that is receiving and sending packet via the Radio's audio?. (Those in the dark would like to know hi).

Bill KE4EER

```

>-----
>> Is it possible to receive APRS data over a telephone type modem via a
>> land-line bbs with a tnc door? Has anyone tried this?
>>
>
>
>Would this be possible? Sure..
>
>Will it work now??? NO...
>
>
>The problem is that the data that gets sent via the SERIAL PORT is only
>the DATA part of the packet, i.e.
>
> @181200/4012.34N/07412.34W Metc etc etc
>
>The part that the program expects to see is:
>
> WU2Z*>APRS:<the same as above>
>
>
>The call sign and TO field (APRS) get added by the TNC, and this would
>not be present if you simply hooked the serial ports to a pair of modems..
>
>
>For it to be possible, we (Bob and I) would have to write a NEW mode, and it
>probably wouldn't be worth it..
>
>You could however, dump P-Lists, and send them over a modem, and load them in
>at the other end..
>
>
>Keith
>
>
>

```


>Keith Sproul
>Student Housing Network Coordinator
>Rutgers University Computing Services
><http://www-ns.rutgers.edu/~ksproul/>
>
Ham Radio: WU2Z
ksproul@noc.rutgers.edu
908 445-3695 Work 908 445-2968 Fax
908 821-4828 Home

515. Re: [APRSSIG:5263] Re: GPS, Altitud

From: "Coster, Jack Eugene" <JCOSTER@WVNM.WVNET.EDU>
Date: Mon, 18 Dec 1995 17:36:13 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199512182237.QAA10849@sys1.tapr.org>
Rendered body type: text/plain

Right on Bob! Some may forget that NAVStar was built as a military system for weapons delivery and navigation. We really are fortunate to be able to play around with our trivial little toys on a system that is literally out of this world. Keep up the good work with APRS. (But we really don't need the version of the week, Bob. HI.)
de Jack Coster. WF8x.

516. [APRSSIG:5256] Ad in This Month's QST ???

From: n2czf@gate.net
Date: Mon, 18 Dec 1995 18:21:02 -0500
To: aprssig@tapr.org
Message-ID: <199512182321.SAA23546@osceola.gate.net>
Rendered body type: text/plain

<----- Begin Forwarded Message ----->

>From: Bob Bruninga <bruninga@nadn.navy.mil>
>To: aprssig@tapr.org
>Subject: [APRSSIG:5256] Re: Grabber.exe

>APR REPLY: No, actually I meant something else... You will notice a product announcement in this month's QST saying something about APRS and Windows...

>-----
>|DE WB4APR in Annapolis MD.|
>-----

<----- End Forwarded Message ----->

This is news to me! December or January issue of QST, I thought I looked over all the ads but I saw nothing about APRS and Windows.

I did see a full page ad for Health Insurance in the January issue and was shocked! I E-Mailed the ARRL and the Advertising department and told them how inappropriate I thought this was, anyone else feels this way tell them also at gst@arrl.org!

NNN the Soapbox

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

517. Re: [APRSSIG:5291] RE: APRS Over LL BBS?

From: n2czf@gate.net
Date: Mon, 18 Dec 1995 18:22:43 -0500
To: aprssig@tapr.org
Message-ID: <199512182322.SAA36062@osceola.gate.net>
Rendered body type: text/plain

Well after reading all the mail on APRS over LL BBS's that reminded me that Bob was working on such a feature quite a while back. I think that this past year has seen such a tremendous increase in internet that the LL BBS idea may be better made into a INTERNET process.

Packet<->Internet Gateways are already a common thing in many areas of the world so the APRS<->Internet idea should not be that big of a thing to accomplish by a well versed person. With the Internet packet Chat channels I believe that a dedicated system is needed, that is a luxury that many do not have unless their company is willing to donate some bandwidth to the "cause". The best way would be to have the ability to do it with a regular PPP account that many of us already have. For a few extra \$\$\$ many providers will allow unlimited access and many users already have a extra phone line and PC to get the job done.

Internet Phone is a great way to link distant repeaters with simple equipment and I have done this several times but we are talking a different bandwidth here

I know of one person that is on the sig and is probably reading this that can do this in the blink of an eye. He is the smartest person of the land <grin> and a internet-ip-aprs-packet-software...etc.etc. guru! He knows who he is maybe in the future this can become a reality.

518. GPS-45 Auto Shut Off

While driving to work today, with my standalone tracker running, I noticed that my GPS-45 kept turning itself off. I thought it might be due to the transmitter, but still did it when the radio was turned off. I thought that maybe the pico was sending in the OFF command, but turned off the pico, and the GPS still turned itself off.

I thought I heard about some weird low battery problem with the GPS-45 that even with external power applied, that it would turned itself off.

Randy
WA2AGE

My opinions are my own.

My computer is multimedia deprived.

Randy Hall WA2AGE randyh@gvgadg.gvg.tek.com Grass Valley Group

I am game...

{snabkey@wingsbbs.com}

520. U-2000 serial pinout

From: Dick Mead <mead@skat.usc.edu>
Date: Mon, 18 Dec 95 16:35:32 PST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.819333332.mead@sol.usc.edu>
Rendered body type: text/plain

Well, Peet could have just printed the info in the book instead of making everyone jump through the same hoops. So what's the pinout now? My guess is the port marked with the big H is the right port but the wires get changed around.

521. MS reports

From: horzepa@gdc.com (Stan Horzepa)
Date: Mon, 18 Dec 1995 18:57:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <9512182357.AA05317@mailhost.gdc.com>
Rendered body type: text/plain

Just to let you all know that I am collecting reports from the Geminids packet meteor scatter test, so keep those cards, letters and email comin!

73,

Stan, WA1LOU

--

| | | | |
|----------------------------------|---|----------------------|--------------------|
| Stan Horzepa | ~ | phone: | 203-758-1811 x7369 |
| Technical Writing Supervisor | ~ | email: | horzepa@gdc.com |
| General DataComm (MODEMS 'R' US) | ~ | radio: | WA1LOU |
| P. O. Box 1299 | ~ | packet radio mail: | WA1LOU@N4GAA |
| Middlebury, CT 06762-1299 | ~ | TCP/IP packet radio: | 44.88.4.8 |

~~~~~ What! - Me Worry? ~~~~~

---

## 522. Re: [APRSSIG:5192] Re: Geminids Test Announcement

From: horzepa@gdc.com (Stan Horzepa)  
Date: Mon, 18 Dec 1995 18:39:57 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <9512182339.AA04446@mailhost.gdc.com>  
Rendered body type: text/plain

Here is the answer a little late, but good for future reference...

39 degrees North, 96 degrees West

73,

Stan, WA1LOU

--

|                                  |   |                      |                    |
|----------------------------------|---|----------------------|--------------------|
| Stan Horzepa                     | ~ | phone:               | 203-758-1811 x7369 |
| Technical Writing Supervisor     | ~ | email:               | horzepa@gdc.com    |
| General DataComm (MODEMS 'R' US) | ~ | radio:               | WA1LOU             |
| P. O. Box 1299                   | ~ | packet radio mail:   | WA1LOU@N4GAA       |
| Middlebury, CT 06762-1299        | ~ | TCP/IP packet radio: | 44.88.4.8          |

~~~~~ What! - Me Worry? ~~~~~

523. AEA PK232

From: Penn M McClatchey <pmm@safn2.saf.com>
Date: Mon, 18 Dec 95 20:07:11 EST
To: aprssig@tapr.org
Message-ID: <9512182007.aa00348@safn8.saf.com>
Rendered body type: text/plain

I hope I'm not asking a stupid question. Probably am, but here goes. I've been using APRS for about two weeks. I put my registration form in the mail Saturday. Everything works great on VHF. On HF, everything seemed to work well on Saturday the first time I ran it. I was xmitting packets. Yesterday and today, I can get it to receive fine, but not to xmit. APRS tries to make the TNC xmit, but it won't. When I go to View screen, it looks like APRS is sending an error message "too many packets outstanding" to the TNC. It is possible that this is an AEA error message, though I've never seen it before. With I try to talk directly to the TNC in APRS using O-C-T, I can't get the TNC to give me the error message, so I'm thinking it is generated by APRS.

Now for something strange: when I go into Pactor (using different

software but the same TNC) and send something, it prefates my xmission with the APRS packets I would've expected to send under APRS. So APRS isn't getting the AEA to transmit its buffer, I guess?

I am not using a GPS. I am simply running APRS though COM1. I have also tried initializing the TNC and then running Alt-S-T to initialize everything, but nothing seems to help.
Any ideas/suggestions would be very much appreciated.

BTW, I ran the meteor scatter routine last Thursday evening.
50 W into an 11 el yagi pointed at MD. Nothing heard.

73 de Penn

Penn M. McClatchey (Southern Aluminum Finishing Co, Atlanta, GA, USA)
Architectural Aluminum. Custom Fabrication. Paint, Powder Coating, Anodizing.
pmm@saf.com Amateur Radio WB4DPT Voice: 404-355-1560,ext231

524. Re: [APRSSIG:5298] APRS not working on com 3

From: pes@gv.net (Peter Short)
Date: Mon, 18 Dec 1995 17:05:59 -0800
To: aprssig@tapr.org
Message-ID: <199512190156.RAA21395@main.gv.net>
Rendered body type: text/plain

> I installed a new VLB enhanced IO board in the machine and I can get
>everything to work on com 3 but aprs. Anyone have any Ideas.
> Norm WB6SHI
>
>Check and see if the jumper is set for com3 on the I/O board.VLB I/O boards are
kind of tricky.
>

525. License Class/Gate

From: Barry Leonard <jleonard@tbcnet.com>
Date: Mon, 18 Dec 1995 20:16:18 -0600 (CST)
To: APRS SIG <aprssig@tapr.org>
Message-ID: <Pine.LNX.3.91.951218201306.1755D-100000@tbc2.tbcnet.com>
Rendered body type: text/plain

Hi there, and happy holidays!
Would somebody refresh my memory if a certain class of Ham license is
required for a station to be a GATE?

Thanks,
Barry Leonard
jleonard@tbcnet.com
N9VJQ

526. Re: [APRSSIG:5311] Re: APRS not working on com 3

From: rkramer@cdx.net (Ronald Kramer)
Date: Tue, 19 Dec 1995 02:41:08 GMT
To: aprssig@tapr.org
Message-ID: <30d62580.19036258@mail.cdx.net>
Rendered body type: text/plain

On Mon, 18 Dec 1995 20:26:11 -0600 (CST), you wrote:

>> I installed a new VLB enhanced IO board in the machine and I can get
>>everything to work on com 3 but aprs. Anyone have any Ideas.
>> Norm WB6SHI
>>
>Check and see if the jumper is set for com3 on the I/O board.VLB I/O boards are
>kind of tricky.
>>
>

Actually it's quite simple.... APRS does not work with Com 3 or 4
only com 1 and 2 are supported.

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

527. Re: [APRSSIG:5301] RE: APRS Over LL BBS?

From: "Mark Farver (KB9JMZ)" <farver@uwplatt.edu>
Date: Mon, 18 Dec 1995 17:36:25 -0600

To: aprssig@tapr.org
Message-ID: <01HYLW1G0EQIF78P8@uwplatt.edu>
Rendered body type: text/plain

At 05:01 PM 12/18/95 -0600, you wrote:
>Well Keith i wasn't thinking of sending the data via serial port, but
rather via
>audio via soundblaster and Iphone. Maybe i'm still wrong about this but arent
>we doing the same thing now. that is receiving and sending packet via the
>Radio's audio?. (Those in the dark would like to know hi).

No way could you send TNC audio data using Iphone, the distortion and timing problems would make it impossible. Plus the Internet bandwidth (about 4k byte a sec) used by Iphone would be wasted on a 1200 baud datalink. It would, however, be fairly simple for Keith to add Winsock support to the Windoze version. This would allow both Internet and LAN sharing of APRS data. (The new Winsock specs call for Winsock to become the standard network interface for everything from TCP/IP to Netware). It would be kinda neat for someone like me (who lives in an area with almost no APRS activity) to be able to log onto a radio/internet gateway server and see activity from several nets around the country.

Mark
KB9JMJZ

528. Re: [APRSSIG:5314] RE: APRS Over LL BBS?

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Date: Mon, 18 Dec 1995 21:38:16 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512190338.VAA06208@crasher2.ttgciitn.com>
Rendered body type: text/plain

Thus spake Mark Farver, splattered hither:
> interface for everything from TCP/IP to Netware). It would be kinda neat for
> someone like me (who lives in an area with almost no APRS activity) to be
> able to log onto a radio/internet gateway server and see activity from
> several nets around the country.

Sort of a high-bandwidth version of HF? :-)

Possibly something based on IRC (RFC 1459) would be good ... it's a well-used distributed platform mostly used for chat, but it could be used for APRS too. It's fast ("slow" is considered 3 seconds from, say, michigan to australia), high-bandwidth, easy to code for, etc.

If you'd like to go this route, give me a shout. Would fit in nicely with an X version of APRS, yaknow? ;-)

--
Ryan Tucker
rtucker@ttgciitn.com
http://www.ttgciitn.com

ttgciitn.com owner
ann-arbor.mi.us.undernet.org irc admin
netins.net user development group

529. Re: [APRSSIG:5312] License Class/Gate

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 18 Dec 1995 22:48:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.951218224538.632B-100000@laraby.tiac.net>
Rendered body type: text/plain

On Mon, 18 Dec 1995, Barry Leonard wrote:

> Hi there, and happy holidays!
> Would somebody refresh my memory if a certain class of Ham license is
> required for a station to be a GATE?
>

That's easy you have to have a TECHNICIAN class or above.

This assumes that you're operating the GATE as Bob suggests (from HF to VHF only)

Richard Amirault
amirault@tiac.net

N1JDU
"Go Fly A Kite"

Boston, Massachusetts USA

530. Re: [APRSSIG:5294] Re: Previous call for help

From: W2H0B@aol.com
Date: Mon, 18 Dec 1995 17:51:10 -0500
To: aprssig@tapr.org
Message-ID: <951218175110_75507548@mail06.mail.aol.com>

Rendered body type: text/plain

In a message dated 95-12-18 17:19:29 EST, you write:

```
>> "I then turn off the TNC and plug in the U-2000 with the green wire going
>> to pin 2 on the TNC and the black wire going to pin 1 or ground. The
>> U-2000 mode is programmed to the packet mode. (clear with wind chill)
>>
>> I have tried many alternatives but to no avail.
>> I am using an AEA Pk-12 along with the U-2000
>>
```

To the fellow wiring a U-2000 to a TNC... pin 1 is FRAME GROUND.
Try Pin 7 - SIGNAL GROUND and see what effect that has.

Also, try feeding the data output from the U-2000 into a dumb terminal or
a PC running ProComm or TELIX or some such plain vanilla comm prog.
Determine whether your Wx sta is putting out data with that cable.

Test each of the pie pieces separately!

Good Luck es 73 de Boyd (w2hob@aol.com)

531. Re: [APRSSIG:5289] APRS OVER LL BBS?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Dec 1995 19:42:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951218193803.16623B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 18 Dec 1995, Richard L. Holbert wrote:

```
> Is it possible to receive APRS data over a telephone type modem via a
> land-line bbs with a tnc door? Has anyone tried this?
```

APR REPLY: That was on my to-do list, until I got to thinking that the
WWW and the internet would be a better way... but I dont have a clue how
to write drivers for the internet... so now that Keith and Mark have
taken up the leading edge, maybe I can get back to the phone line thing...

But That requires SOMEONE in each region to BUY and maintain a phone line
for downloads... Is that worth it? Will anyone do it?

The way it would work, is that you bring up APRS. Tell it the phone
number you want it to dial. It dials the remote APRS site, gets a dump
of all the P,L lists, etc and then hangs up. You will not be allowed to
inject data into the remote APRS, but you will be updated as if you were
there! After the phone dial goes through, the whole thing should take
about 10 seconds...

|DE WB4APR in Annapolis MD.|

532. Re: [APRSSIG:5312] License Class/Gate

From: rwf <rwf@mindspring.com>
Date: Mon, 18 Dec 1995 23:13:26 -0500
To: aprssig@tapr.org
Message-ID: <199512190413.XAA24354@borg.mindspring.com>
Rendered body type: text/plain

Only the class of license for the frequency you are transmitting on.
If you can talk on 2 meters, then it is fine to GATE from HF to VHF *one way*

If you can talk on 30 meters, you can do it the other way, too.

Ralph

At 08:26 PM 12/18/95 -0600, you wrote:
>Hi there, and happy holidays!
>Would somebody refresh my memory if a certain class of Ham license is
>required for a station to be a GATE?
>
>Thanks,

>Barry Leonard
>jleonard@tbcnet.com
>N9VJQ
>
>

533. WinAPRS Docs

From: "Larry Griffin" <largriff@Onramp.NET>
Date: Mon, 18 Dec 1995 22:14:17 +0000
To: aprssig@tapr.org
Message-ID: <199512190414.WAA08816@mailhost.onramp.net>
Rendered body type: text/plain

Those of you who are anxiously awaiting the imminent release of WinAPRS will want to read Keith Sproul's WinAPRS documentation webpage at:

<http://www-ns.rutgers.edu/~ksproul/APRS/WinAPRSdocs.html>

Larry Griffin <largriff@onramp.net>

534. Re: [APRSSIG:5312] License Class/Gate

From: "Jerry" <jerdptro@xnet.com>
Date: Mon, 18 Dec 1995 22:20:58 +0000
To: aprssig@tapr.org
Message-ID: <199512190414.WAA00632@flood.xnet.com>
Rendered body type: text/plain

Hi Barry,
I think that novices and tech cannot be a GATE transmitter on 30 meters, at least not for long! *>).
Happy Holidays
Jerry
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

535. 7.4E and U-2000

From: W2H0B@aol.com
Date: Mon, 18 Dec 1995 23:20:45 -0500
To: aprssig@tapr.org
Message-ID: <951218211906_57900175@mail06.mail.aol.com>
Rendered body type: text/plain

Bob, WB4APR
Keith, WU2Z

Regarding CommBufferOverflows with the U-2000

Bob, you suggested setting the AltS-PosRate to 8 seconds in an effort, I think, for APRS to go get the string from the U-2000 before it could fill up the CommBuffer. That reduced the Overflow here but did not eliminate it, so I set the rate for 5-seconds and I've been running for over an hour with NO OVERFLOW.

Initially, and at times, I see a "cmd:" line with some TNC parms slip out onto the air but these are soon "overbeaconed" by the next Posit or "regular" beacon... is this the bug that was reported to you guys besides the overflow problem?

Just to let you know about the 8 vs 5 second "sampling" rate...

73 de Boyd (w2hob@aol.com)

536. Re: [APRSSIG:5313] Re: APRS not working on com 3

From: pes@gv.net (Peter Short)
Date: Mon, 18 Dec 1995 20:21:44 -0800
To: aprssig@tapr.org
Message-ID: <199512190512.VAA21972@main.gv.net>
Rendered body type: text/plain

>On Mon, 18 Dec 1995 20:26:11 -0600 (CST), you wrote:
>

>>> I installed a new VLB enhanced IO board in the machine and I can get
>>>everything to work on com 3 but aprs. Anyone have any Ideas.

>>> Norm WB6SHI
>>>
>>Check and see if the jumper is set for com3 on the I/O board.VLB I/O
boards are
>>kind of tricky.
>>>
>>
> Actually it's quite simple.... APRS does not work with Com 3 or 4
>only com 1 and 2 are supported.
>
>Regards, Ron ... 73 de Ron
> Internet: rkramer@cdx.net (Ron Kramer)
> Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
>
>Yes it does work on com3 and com 4.I have a pp88 and its configured for com 4.
>

537. Re: [APRSSIG:5272] Re: Overflow with U-2000

From: schiers@ibm.net (hasan schiers)
Date: Tue, 19 Dec 95 02:44:56 EST
To: aprssig@tapr.org
Message-ID: <199512190249.CAA09410@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

By the way, Bob, is anyone besides me telling you about the U-2000
overflow problem or are you and I the only ones playing with it at
this point? I talked with KG0DW this afternoon and his U-2000 just
showed up. He hasn't put it on yet, waiting to see how you and I
make out.

BTW the machine is a 486dx2/80 with 8 mb RAM, so it ain't a slow
machine problem. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

538. Re: [APRSSIG:5267] Stolen callsigns

From: "Jerry" <jerdptro@xnet.com>
Date: Mon, 18 Dec 1995 22:23:50 +0000
To: aprssig@tapr.org
Message-ID: <199512190430.WAA01633@flood.xnet.com>
Rendered body type: text/plain

Interestingly Bob, this happens on the Mac Version 2.12 with
regularity. Never happened until this version. I know your not a
Mac kinda guy, but thot I'd let u know. Using KAM PLUS.
Happy Holidays
Jerry
N9VHW
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

539. Re: [APRSSIG:5283] APRS WX stuff

From: schiers@ibm.net (hasan schiers)
Date: Tue, 19 Dec 95 00:44:30 EST
To: aprssig@tapr.org
Message-ID: <199512190045.AAA09425@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Mon, 18 Dec 1995 09:48:11 -0600 (CST) you wrote:

>2) I have hooked my U-2000 back up and it seems to run fine. WOULD those
>stations having problems, set your WX update rate at something short like
>8 seconds and then comment on any changes in the observed symptoms
>relative to what you were experiencing before? Thanks...
>
>-----
>|DE WB4APR in Annapolis MD.|
>-----

I have tried to set it below 5, but it won't go...and still getting crashes
every few minutes while set at 5. Time to shut it off until the code gets
fixed.

Nice try, Bob...it looked like there was promise but looks like something

more will be required. Please let us know...there are several U-2000's in the area waiting to come on line.

73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

540. Re: [APRSSIG:5283] APRS WX stuff

From: schiers@ibm.net (hasan schiers)
Date: Tue, 19 Dec 95 00:27:03 EST
To: aprssig@tapr.org
Message-ID: <199512190028.AAA36019@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Mon, 18 Dec 1995 09:48:11 -0600 (CST) you wrote:

>2) I have hooked my U-2000 back up and it seems to run fine. W0uld those
>stations having problems, set your WX update rate at something short like
>8 seconds and then comment on any changes in the observed symptoms
>relative to what you were experiencing before? THanks...
>
>-----
>|DE WB4APR in Annapolis MD.|
>-----

Ok guys, the third iteration:

1. Tried setting Wx update to 8 seconds. It helped, but crashed within 5 min
2. Tried setting Wx update to 5 seconds. Crashed after about 30 min
3. Just set Wx update to 3 seconds...more info later.

Bob: if you see this, it looks like you might have to re-code this. I don't know what kind of overhead price we are paying for trying to update every 3 seconds...and also don't know if it is going to eventually crash as in 1 and 2 above. Hope this helps. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

541. Re: [APRSSIG:5283] APRS WX stuff

From: schiers@ibm.net (hasan schiers)
Date: Mon, 18 Dec 95 23:35:52 EST
To: aprssig@tapr.org
Message-ID: <199512182343.XAA28045@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Mon, 18 Dec 1995 09:48:11 -0600 (CST) you wrote:

>
>2) I have hooked my U-2000 back up and it seems to run fine. W0uld those
>stations having problems, set your WX update rate at something short like
>8 seconds and then comment on any changes in the observed symptoms
>relative to what you were experiencing before? THanks...

Correction: I got a crash, overrun type after about 10 mins of running. I have changed the updates to 5 seconds to see if that helps.

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

542. Re: [APRSSIG:5283] APRS WX stuff

From: schiers@ibm.net (hasan schiers)
Date: Mon, 18 Dec 95 23:26:25 EST
To: aprssig@tapr.org
Message-ID: <199512182343.XAA12169@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Mon, 18 Dec 1995 09:48:11 -0600 (CST) you wrote:

>2) I have hooked my U-2000 back up and it seems to run fine. W0uld those
>stations having problems, set your WX update rate at something short like
>8 seconds and then comment on any changes in the observed symptoms
>relative to what you were experiencing before? THanks...

Changing from the program's default to 8 seconds appears to work...at least

so far. I am no longer getting the crashes that plagued me earlier and the only thing I changed was according to Bob's instructions as above.

Congrats Bob!

I have not started the program from scratch yet, to see if there are initialization problems, but simply re-registering the software and setting Wx update to 8 seconds solved the problem so far.

Thanks for giving us the hint, Bob. Looks like something that should go into the docs somewhere <g>...73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

543. Re: [APRSSIG:5283] APRS WX stuff

From: schiers@ibm.net (hasan schiers)
Date: Mon, 18 Dec 95 23:40:53 EST
To: aprssig@tapr.org
Message-ID: <199512182343.XAA12162@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Mon, 18 Dec 1995 09:48:11 -0600 (CST) you wrote:

>2) I have hooked my U-2000 back up and it seems to run fine. WOULD those
>stations having problems, set your WX update rate at something short like
>8 seconds and then comment on any changes in the observed symptoms
>relative to what you were experiencing before? THanks...

8 seconds produced a crash after about 10 mins running. Much improved, but still no cigar. I just changed the Wx update to 5 seconds and will watch it some more.

Incidentally, those of you with Ultimeter 2000 units who want to convert from inches of mercury (which is the typical unit of measure on TV and National Wx Service) to millibars, here is the formula:

Inches of Mercury * 33.86 = millibars of mercury

So if your U-2000 is set for in of mercury, you can check your APRS for a reading in millibars.

Currently my pressure is 30.13 in of mercury (Hg).
 $30.13 * 33.86 = 1020$ millibars. APRS is showing /B020 in the wx string, which corresponds to 1020 mB. If the pressure falls below 1000 mB, I suspect the leading 0 would become a leading 9.

Have fun...

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

544. Re: [APRSSIG:5315] RE: APRS Over LL BBS?

From: "Mark Farver (KB9JNZ)" <farver@uwplatt.edu>
Date: Mon, 18 Dec 1995 23:01:35 -0600
To: aprssig@tapr.org
Message-ID: <01HYX909SXUIF7BPF@uwplatt.edu>
Rendered body type: text/plain

At 09:55 PM 12/18/95 -0600, you wrote:

>> It would be kinda neat for
>> someone like me (who lives in an area with almost no APRS activity) to be
>> able to log onto a radio/internet gateway server and see activity from
>> several nets around the country.
>
>Sort of a high-bandwidth version of HF? :-)

Not everyone has enough space and/or money for an HF rig. ;-)

>Possibly something based on IRC (RFC 1459) would be good ... it's a well-used
>distributed platform mostly used for chat, but it could be used for APRS too.
>It's fast ("slow" is considered 3 seconds from, say, michigan to australia),
>high-bandwidth, easy to code for, etc.

IRC would probably be ideal. The interconnected servers already exist. Adding an APRS channel wouldn't be a problem. It would be unfortunate to leave the DOS people out of the game but it would solve the limited

bandwidth available on HF for wide area networks.

Plus with the software interfacing to the internet Bob's idea of using the APRS query command to allow you to lookup someone by call and then display their QTH in APRS could be easily added by linking into on-line callsign databases.

Mark
KB9JMJZ

545. Re: [APRSSIG:5299] RE: APRS Over LL BBS?

From: N4QEA <moyers@ibm.net>
Date: Tue, 19 Dec 1995 00:24:13 EST
To: aprssig@tapr.org
Message-ID: <199512190521.FAA15179@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

** Reply to note from Richard L. Holbert <rholbert@manny.rcinet.com> 12/18/95 4:24pm -0600

> Ah, but, what I want to do is to use a machine with two serial ports. Com1
> hooked to the TNC and Com2 hooked to the modem. The computer just repeats
> what it hears on the TNC over the modem. The computer with the TNC doesn't
> even need to run APRS, but the computer on the other side of the telephone
> line would be running APRS without a TNC.
>
> This is just an extension of Bob's op-center idea, but using modems in lieu
> of serial lines.
>
> On Mon, 18 Dec 1995 15:09:58 -0600 (CST),
> aprssig@tapr.org wrote...
> >> Is it possible to receive APRS data over a telephone type modem via a
> >> land-line bbs with a tnc door? Has anyone tried this?
> >>
> >
> >
> >Would this be possible? Sure..
> >
> >Will it work now??? NO...
> >
> >
> >
> >The problem is that the data that gets sent via the SERIAL PORT is only
> >the DATA part of the packet, i.e.
> >
> > @181200/4012.34N/07412.34WMetc etc etc
> >
> >The part that the program expects to see is:
> >
> > WUZZ*>APRS:<the same as above>
> >
> >
> >The call sign and TO field (APRS) get added by the TNC, and this would
> >not be present if you simply hooked the serial ports to a pair of modems..
> >
> >
> >For it to be possible, we (Bob and I) would have to write a NEW mode, and
> >it
> >probably wouldn't be worth it..
> >
> >You could however, dump P-Lists, and send them over a modem, and load them
> >in
> >at the other end..
> >
I may be way out in left field.....but if you had a way to hook the modem directly to the tnc
and then get the modem to only connect you to the TNC after a password.....then in effect aprs
could talk to that TNC as though it was connected to it. Thats kinda how the packet worm
holes used to work.

Just an idea to think about.
73

John Moyers
ARS; N4QEA
Packet; N4QEA @ N4QEA.#METN.TN.USA.NA
Inet; moyers@ibm.net
Cruise Missile; 36,02.89N/83,43.35W

546. Re: [APRSSIG:5286] Previous call for help

From: N4QEA <moyers@ibm.net>
Date: Tue, 19 Dec 1995 00:24:17 EST
To: aprssig@tapr.org
Message-ID: <199512190521.FAA01871@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

**** Reply to note from gwelte@blueox.bji.net 12/18/95 12:14pm -0600**

Realizing the U-2000 is not operating properly with the APRS74e program I
> still must be doing something wrong since my station does not even come up
> on the map (discounting the weather). Listed below are the commands I put
> into the TNC for a remote weather station operation. I will try the single
> port mode later.
> Echo "Off"
> =46low "Off"
> Ilfpack "On" (LFIgnore)
> CPactime "On"
> SENDPAC "\$01"
> Conmode "CONVERSE"
>
> My "N0WBU-1"
> UN APRS VIA RELAY
> GLOCTX "60"
> BT @ 230911/4733.30N/09452.59W_Bemidji Weather
> Beacon E 60
> GNMEA1 \$ULTW
> TBAUD "2400"
> RESTART
> "Then I was putting in GPSMode 2, but now I understand that shouldn't be don=
> e".
> "I then turn off the TNC and plug in the U-2000 with the green wire going
> to pin 2 on the TNC and the black wire going to pin 1 or ground. The
> U-2000 mode is programmed to the packet mode. (clear with wind chill)
>
> I have tried many alternatives but to no avail.
> I am using an AEA Pk-12 along with the U-2000
>
> Any help will be appreciated - then I'll worry about the 2000 when Bob gets
> it working.
> Good work everyone and Thanks.
>
> GAW (N=D8WBU) Bemidji, Minnesota - gwelte@blueox.bji.net

Are you using a cable you made up, or is this the cable from PEET Brothers?
Since the Pins are different on DB-9 and DB-25 cables I will not guess if your
pinout is correct. My guess would be that you need to switch pin 2 and 3
around. Remeber you are plugging a modem into another modem, thus to connect
them using a cable wired to be plugged into a computer you will either have to
use a null modem cable or switch pins 2 & 3.

Hope this helps and 73

John Moyers
ARS; N4QEA
Packet; N4QEA @ N4QEA.#METN.TN.USA.NA
Inet; moyers@ibm.net
Cruise Missile; 36.02.89N/83.43.35W

547. Re: [APRSSIG:5321] Re: License Class/Gate

From: "Paul Knupke (CS)" <knupke@babbage.csee.usf.edu>
Date: Tue, 19 Dec 1995 00:49:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219004423.12739A-100000@babbage>
Rendered body type: text/plain

On Mon, 18 Dec 1995, Jerry wrote:

> I think that novices and tech cannot be a GATE transmitter on 30
> meters, at least not for long! *>).

This is true. Since Novice nor Tech stations have privledges on 30
meters, they can't be a gate but there is nothing that says they cannot
(ie its not illegal) to uplink via a gate operator who is general or above.

It is the gate station transmitter who is legally transmitting on 30
meters. It is no different than a tech talking on a 3 band repeater,
with one band being a ten meter repeater. If they are transmitting on a
frequency that they have privledges, it doesn't matter that the signal is
being retransmitted on another band they do not have privledges on. The
transmitter at the gateway identifies itself.

Yes there may be confusion on the fact that some 00 might look up a call of someone who they see on 30 meter packet who is not licensed but further research would show a path of ...gate,gate.

If the 00 isn't APRS literate they might not understand this though.

What is the different with that or a novice connecting to a packet network on a node on 222 Mhz? Absolutely nothing.

Paul

```
=====
Paul Knupke, Jr. / Pinellas County ARES Asst. EC
knupke@babbarge.csee.usf.edu / Pinellas County Skywarn
Largo, FL USA / Fidonet 1:3603/570
Amateur Radio Callsign KR4YL / Packet N4XQU.#TPA.FL.USA.NOAM
/ Florida Contest Group /
=====
```

548. I Lied (7.4e & U-2000)

From: W2H0B@aol.com
Date: Mon, 18 Dec 1995 22:29:24 -0500
To: aprssig@tpr.org
Message-ID: <951218221941_57958846@emout06.mail.aol.com>
Rendered body type: text/plain

'Specially for Bob & Keith
But For the SIG too...

Setting the POSRate for the 5-seconds works ok if NOTHING else is fiddled with. If you don't touch the keyboard, APRS will sample the COM2: port (in my case), get the U-2000 weather and return to monitoring the frequency.

Touch the keyboard, however, as I wanted to input the snow symbol, and lockup... Comm-buffer-overflow and you have to CTRL-ALT-DEL the computer. This was running on a 286 by the way... not my 486/66 so maybe the faster CPU would not let the buffers overflow, but then maybe it would!

I can unplug the DB-25 connector on the COM2: port and it will "empty out"... sometimes, but redrawing the map is slow enough on the 286 to cause it to lock up again...

So, I guess there really is a problem after all... faster wx station output... more data to parse... hmmm!

73 de Boyd (w2hob@aol.com)

549. Re: [APRSSIG:5294] Re: Previous call for help

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 19 Dec 1995 00:45:12 -0600
To: aprssig@tpr.org
Message-ID: <v02130501acfc0274c0f0@[199.1.11.128]>
Rendered body type: text/plain

There are a few strange goofy characters in your posting

>> =46low "Off"
I guess that is a Flow "Off"

>> GAW (N=D8WBU) Bemidji, Minnesota - gwelte@blueox.bji.net
and your Call (N0WBU)

Something wrong with the mailer getting HEX codes
as this was in a reply also I think it is on your end.

I was doing a cut and paste into my PK-12 from your posting.

Even a voltmeter will jump around when there is RS-232 data
on the xmit pin try that.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

550. Re: [APRSSIG:5310] AEA PK232

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Tue, 19 Dec 1995 08:53:13 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9512190753.AA08861@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

Penn M McClatchey writes:

>
> I hope I'm not asking a stupid question. Probably am, but here
> goes. I've been using APRS for about two weeks. I put my
> registration form in the mail Saturday. Everything works great on VHF.
> On HF, everything seemed to work well on Saturday the first
> time I ran it. I was xmitting packets.
> Yesterday and today, I can get it to receive fine, but not to
> xmit. APRS tries to make the TNC xmit, but it won't. When I go
> to View screen, it looks like APRS is sending
> an error message "too many packets outstanding" to the TNC. It is
> possible that this is an AEA error message, though
> I've never seen it before. With I try to talk directly
> to the TNC in APRS using O-C-T, I can't get the TNC to give me the
> error message, so I'm thinking it is generated by APRS.

Sounds like your threshold setting is too low. Turn it up a little
so the little LED next to it isn't on when the HF freq. is clear. The
TNC won't transmit if that LED is on (i.e., the threshold is too low).
Perhaps the knob got adjusted since the last time you ran packet (or
APRS) on HF, where the noise level is usually higher than VHF/UHF.

> Now for something strange: when I go into Pactor (using different
> software but the same TNC) and send something, it prefices my
> xmission with the APRS packets I would've expected to send under
> APRS. So APRS isn't getting the AEA to transmit its buffer,
> I guess?

The TNC can probably hold 7 or so packets (might depend on your MAXFRAME
setting???). After that, if those packets can't be sent, you'll get
"too many packets outstanding." But those packets will stay in your
TNC's xmit buffer, and when you switch modes with the PK-232, whether it
be to PacTor or CW or whatever, that buffered APRS data will go out.

Hope this helps.

--Shannon, DL6SEU

551. Re: [APRSSIG:5287] Re: Stolen callsigns

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Tue, 19 Dec 1995 01:26:42 -0600
To: aprssig@tapr.org
Message-ID: <199512190756.BAA07758@sys1.tapr.org>
Rendered body type: text/plain

At 12:35 PM 95-12-18 -0600, you wrote:

>I kind of wrote it off as an RS-232 glitch. There's a lot of data flying
>around on that interface when HSP is running.
>
>It would be interesting to survey the folks experiencing the problem to
>determine a few facts about the hardware they are running - i.e., CPU type
>and speed, and type of UART on the serial interface. It would not surprise
>me if we see a correlation with the problem and the use of 16450 or 8250
>UART chips.

I've experienced it with a laptop that has the 16550 UART, I use the HSP
cable and both the tiny-2 and the pico TNC's I don't think it's occurred with
the pico; I'll be more observant there; the pico has the built in second
serial port for the GPS, whereas the tiny-2 is using the HSP cable.

barrettd

David E. Barrett
barrettd@crpl.cedar-rapids.lib.ia.us

If I can't give you a good sound reason
I'll give you a reason that sounds good

552. Re: [APRSSIG:5263] Re: GPS, Altitud

From: Per Molund <per@proact.no>
Date: Tue, 19 Dec 1995 08:50:09 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.91.951219073631.6503A-100000@gruff>
Rendered body type: text/plain

On Sun, 17 Dec 1995, Bob Bruninga wrote:

>
> APR REPLY: A decent percentage of the people on this net could probably
> get together, and with less than the investment it takes to buy a new car,
> could build a CRUISE MISSILE using GPS to target any spot on the surface
> of the earth. I personally am thankful that the government is providing
> some protection for us in the form of SA.
>
> When you consider the resources and money available to the crazies in
> the middle east, the individual making the above statement is
> "misinformed".

What? A backyard cruise missile? I think someone is missing the point for a number of reasons.

a. Someone having the technology to develop and build a cruise missile being able to target 'any spot on surface' would not rely on a \$300 Garmin to do the navigation. They surely also would have the technology to 'break' the code used for SA. Maybe they would not go for Navstar/GPS at all, they could easily choose to use GLOSNAS instead.

b. As seen during the Desert Storm the terrorist weapons used was not locally developed, but slightly modified Russian designed SCUD missiles. This leads me to believe that even governments which spend large amounts of money on weapons would try to buy, steal or borrow these items than design and build them. I do not know the cost of the development of the tomahawk missile, but I believe this would be above the capability of an average Middle East government.

c. Terrorist whether groups or governments are not requiring pinpoint accuracy, they want publicity. That means that a car bomb at downtown McDonnals are a lot more useful to them than the ability to deliver a charge at SAC's backdoor in Colorado Springs. This has been proven for a number of years in Europe (Paris, Baskerland, Germany, Northern Ireland etc.) and in the Middle East (Israel, Lebanon, Egypt etc.).

> Be thankful that we civilians get to play with these high tech toys in a
> free and open society. Which a lot of folks would like to destroy...

I am quite sure that your government had some bigger views than high tech toys when they forced the military to make GPS available to the public. :-)

---per

```
=====
| Per Molund - Systems Engineer      | Email: per@proact.no           |
| Norway                            | Pager: +47 96 50 05 74        |
=====
```

553. Re: [APRSSIG:5339] Re: GPS, Altitud

From: "Henry Abbott" <TEB@dwaf-pta.pwv.gov.za>
Date: Tue, 19 Dec 1995 11:23:17 +0200
To: aprssig@tapr.org
Message-ID: <2FADC01F10@dwaf-pta.pwv.gov.za>
Rendered body type: text/plain

Another stupid question! Why cannot one simply refer to the nearest point of known coordinates and height, determine the instantaneous error between the known coordinates and GPS results and correct for it? Or is the SA implementation really more complex than that?

73 de ZR6HAA

Tel. 00 27 12 299 3335
Fax. 00 27 12 323 0321
Henry Abbott -- ZR6HAA
Dept. of Water Affairs and Forestry
Postal: Water Quality Management, Private Bag X313, PRETORIA, 0001

554. Re: [APRSSIG:5339] Re: GPS, Altitud

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Tue, 19 Dec 1995 02:41:52 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199512190941.CAA29557@usr2.primenet.com>
Rendered body type: text/plain

At 02:16 AM 12/19/95 -0600, Per Molund wrote:

>a. Someone haveing the technology to develop and build a cruise missile
>beeing able to target 'any spot on surface' would not rely on a \$300
>Garmin to do the navigation. They surely also would have the technology
>to 'break' the code used for SA. Maybe they would not go for Navstar/GPS
>at all, they could easily choose to use GLOSNAS instead.

Could be. But, contrary to popular belief, "military" versions of GPS are available to the public, for a price. In fact, all one has to do is show a need for one and they can get one. I know the City of Phoenix uses L1/L2 GPS receivers. If they can get them, so can any organized terrorist organization. Also, it would be quite possible for a cohort to set up a local DGPS transmitter shortly before a terrorist attack, again, these are available on the open market, or easily constructed.

>

>b. As seen during the Desert Storm the terrorist weapons used was not
>locally developed, but slightly modified russian designed SCUD missiles.
>This leads me to belive that even governments wich spends large amounts
>of money on weapons would try to buy, steal or borrow these items than
>deign and build them. I do not know the cost of the development of the
>tomahawk missile, but I belive this would be above the capability of an
>average Middle East government.

Tomahawk Cruise Missiles can be very simple, or very complex, most of that has to do with avionics. Base models can be had for about \$500,000. Many years ago I got to tour the Teledyne CAE plant in Toledo, OH; where they make the jet engines for the cruise missile. I was amazed at how simple a cruise missile's design is. The design is hardly "state-of-the-art." I'm sure any country could duplicate the effort, and probably cheaper than the U.S. In fact, a small group of technically competent people could probably assemble a reasonable facsimile.

The most complex part is the jet turbine, but this could be replaced with a propeller, ducted fan, or ram jet. 3 axis stabilization and guidance could be done with off-the-shelf components designed for the model aircraft industry combined with a GPS unit.

In light of the fact that Matthias Rust could pilot a Cessna 172 through Soviet Airspace and land in Red Square, and some wacko (recently) could steal a plane and almost crash it into the Whitehouse, it will not be long before we see some type of flying bomb (either with a kamikaze pilot or possible GPS guidance) aimed by terrorist group(s) at some target. SA or not, it's bound to happen.

But currently it's easier to steal (or rent) a truck and pack it with explosives. I expect when it gets hard to make a ground attack, the terrosits will take to the air.

This is just my opinion, and I am in no way endorsing any terrorist attack on any target.

73,

Mark Fellhauer
KC7BXS
sparkfel@primenet.com

555. Re: [APRSSIG:5319] Re: License Class/Gate

From: ke4eer@ro.com (William Nolle)
Date: Tue, 19 Dec 1995 07:01:28
To: aprssig@tapr.org
Message-ID: <199512191408.IAA05089@sh1.ro.com>
Rendered body type: text/plain

This is only true if that person has a Tech plus ticket, not just because you can talk on 2 meters.

Bill KE4EER

>Only the class of license for the frequency you are transmitting on.
>If you can talk on 2 meters, then it is fine to GATE from HF to VHF *one way*
>
>If you can talk on 30 meters, you can do it the other way, too.
>
>
>Ralph
>
>
>
>
>At 08:26 PM 12/18/95 -0600, you wrote:
>>Hi there, and happy holidays!
>>Would somebody refresh my memory if a certain class of Ham license is
>>required for a station to be a GATE?
>>
>>Thanks,
>>Barry Leonard
>>jleonard@tbcnet.com
>>N9VJQ
>>
>>
>

556. Re: [APRSSIG:5307] U-2000 serial pinout

From: schiers@ibm.net (hasan schiers)
Date: Tue, 19 Dec 95 13:07:30 EST
To: aprssig@tapr.org
Message-ID: <199512191308.NAA10729@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Mon, 18 Dec 1995 18:57:08 -0600 (CST) you wrote:

>Well, Peet could have just printed the info in the book instead of making
>everyone jump through the same hoops. So what's the pinout now? My guess
>is the port marked with the big H is the right port but the wires get
>changed around.
>
NO! NO! NO!...RTFM

There is a specific warning in the manual to NOT plug ANYTHING in the

"H" port except an external temperature humidity sensor or DAMAGE could result.

There is a loose sheet in the upgrade kit showing what gets plugged in where on both the junction and splitter box.

As far as the pinout on the serial port itself, I have seen nothing to indicate what is what...inexcusable on Peet's part.

73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

557. Re: [APRSSIG:5335] I Lied (7.4e & U-2000)

From: schiers@ibm.net (hasan schiers)
Date: Tue, 19 Dec 95 12:55:00 EST
To: aprssig@tapr.org
Message-ID: <199512191308.NAA27385@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Tue, 19 Dec 1995 00:26:10 -0600 (CST) you wrote:

>
>'Specially for Bob & Keith
>But For the SIG too...
>
>Setting the POSRate for the 5-seconds works ok if NOTHING else
>is fiddled with. If you don't touch the keyboard, APRS will sample
>the COM2: port (in my case), get the U-2000 weather and return
>to monitoring the frequency.
>
>Touch the keyboard, however, as I wanted to input the snow symbol,
>and lockup... Comm-buffer-overflow and you have to CTRL-ALT-DEL
>the computer. This was running on a 286 by the way... not my 486/66

>so maybe the faster CPU would not let the buffers overflow, but then
>maybe it would!
>
>I can unplug the DB-25 connector on the COM2: port and it will "empty out"...
>sometimes, but redrawing the map is slow enough on the 286 to cause it to
>lock up again...
>
>So, I guess there really is a problem after all... faster wx station
>output... more data to parse... hmmm!
>
>73 de Boyd (w2hob@aol.com)
>
My assessment is the same, increasing the sampling rate (WX update)
improves things, but it is NOT a fix, and this is on a 486dx2/80 with
fast pci video card. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

558. Re: [APRSSIG:5290] Re: APRS OVER LL BBS?

From: ke4eer@ro.com (William Nolle)
Date: Tue, 19 Dec 1995 07:19:54
To: aprssig@tapr.org
Message-ID: <199512191427.IAA05427@sh1.ro.com>
Rendered body type: text/plain

Although i agree with a lot of what your saying Jim, do we really want to stop
going forward and start going backward. Or hide our head in the sand when
someone makes a suggestion. Even though some Hams don't like the idea of
advancing into a new world using amateur radio, it's here and being used
daily, just like Iphone, some hams don't like the idea, but let me tell you that i
talk to more hams on Iphone using Internet then i do in any other mode.
And yes Jim if you don't use the frequency we are going to loose it so why
don't i EVER here anybody on 220 at least in North Alabama.

KE4EER

>Then why even bother with radio? I kind of like the idea of being somewhat
>"exclusive" in that just anybody and everybody isn't a radio amateur... While
>an Internet/Iphone link up might be a novel idea, aren't we REALLY in this to
>promote technological development in radio communications? Yes, I know that we
>could start talking about the new wireless technology and that might cover it
>but I really think that if we start doing this kind of activity that sooner or
>later the FCC would say "Well, you never use those frequencies any more. That's
>why we are auctioning off the former amateur bands!"
>
>I get a little ruffled when the BBS sysops use phone lines to transfer the
>mountain of junk mail that permeates the packet network now. Of what USEFUL
>purpose is a message listing a "tower for sale, you take down and move" in
>Massachusetts being on a BBS in Australia or even Kansas??? About half of the
>bulletins that come out are just people writing bulletins with no conscientious
>effort being made to rationalize the propriety, or (dare I say) necessity, of
>taking up disk space and air time to send trivia, recipes, happy club crap,
>etc., etc., etc. (ad infinitum et nauseum), much LESS the desirability of so
>much crap....
>
>Already we have opened ourselves, unwittingly, to a potential loss of privilege
>threat with the packet mail. I say we had best mind our efforts and refrain
>from using commercially available communication methods. Why don't we develop
>the next new wave of high-tech communications???

>
>Something to think about....
>
>73 de Jim, KU0G
>

559. RE: [APRSSIG:5301] RE: APRS Over LL BBS?

From: "Richard L. Holbert" <rholtbert@manny.rcinet.com>
Date: Tue, 19 Dec 1995 08:50:39
To: aprssig@tapr.org
Message-ID: <199512191351.IAA11899@manny.rcinet.com>
Rendered body type: text/plain

Yes, but let's think about it. The reason we are converting the Digital
Data to audio is because the media (radio) is already set up to use audio.
In the case of the internet, it is already set up to use digital data. We
would use much less band-width and be more efficient if we sent APRS
position reports as text strings instead of digitized audio over the
internet.

Hope this helps.

On Mon, 18 Dec 1995 17:00:16 -0600 (CST),
aprssig@tapr.org wrote...
>Well Keith i wasn't thinking of sending the data via serial port, but
>rather via
>audio via soundblaster and Iphone. Maybe i'm still wrong about this but
>arent
>we doing the same thing now. that is receiving and sending packet via the
>Radio's audio?. (Those in the dark would like to know hi).
>
>Bill KE4EER
>-----
>>> Is it possible to receive APRS data over a telephone type modem via a
>>> land-line bbs with a tnc door? Has anyone tried this?
>>>
>>
>>
>>Would this be possible? Sure..
>>
>>Will it work now??? NO...
>>
>>
>>
>>The problem is that the data that gets sent via the SERIAL PORT is only
>>the DATA part of the packet, i.e.
>>
>> @181200/4012.34N/07412.34WMetc etc etc
>>
>>The part that the program expects to see is:
>>
>> WU2Z*>APRS:<the same as above>
>>
>>
>>The call sign and TO field (APRS) get added by the TNC, and this would
>>not be present if you simply hooked the serial ports to a pair of
modems..
>>
>>
>>For it to be possible, we (Bob and I) would have to write a NEW mode, and
>it
>>probably wouldn't be worth it..
>>
>>You could however, dump P-Lists, and send them over a modem, and load
them
>in
>>at the other end..
>>
>>
>>Keith
>>
>>
>>
>>Keith Sproul Ham Radio: WU2Z
>>Student Housing Network Coordinator ksproul@noc.rutgers.edu
>>Rutgers University Computing Services 908 445-3695 Work 908 445-2968
>Fax
>>http://www.ns.rutgers.edu/~ksproul/ 908 821-4828 Home
>>
>
>
>

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

560. Re: [APRSSIG:5296] Re: Stolen callsigns

From: dwetzel@acs.uswest.com
Date: Tue, 19 Dec 1995 06:54:38 -0600
To: aprssig@tapr.org
Message-ID: <0d6b9bc0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

I have the identical configuration and see the Wi7XXX and cKC7C0 both under Win 3.1 and under straight DOS. Doesn't seem to matter how big the P-list is (I've seen it when first bringing APRS up with just me on the P-list).

Doug

KC7C0

Subject: [APRSSIG:5296] Re: Stolen callsigns
From: aprssig@tapr.org at Internet-Mail
Date: 12/18/95 16:04

Hate to be the bearer of bad news, but it has happened to me on at least one occasion and I do not have a wx station.

I'm running 7.4e, and an AEA 232 (old(no mailbox etc)) multitasking from Windows.

I think I had switched back to Windows (3.11), done some things and switched back to APRS and there I was, someone else!!! I had attributed it to the large P-list (about 5 pages) but that was a guess.

I also get some other Call sign changes that show up as Wi4XXX with the lower case i instead of the correct call.

In either case, I can hook my or the other call, delete it and under it is the correct Call.

For whatever this is worth!

Bud
wb4ltf@aol.com

561. Re: [APRSSIG:5310] AEA PK232

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 09:13:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219091128.20530A-100000@greatlakes>
Rendered body type: text/plain

On Mon, 18 Dec 1995, Penn M McClatchey wrote:

> Yesterday and today, I can get it to receive fine, but not to
> xmit. APRS tries to make the TNC xmit, but it won't. When I go
> to View screen, it looks like APRS is sending
> an error message "too many packets outstanding" to the TNC. It is

APR REPLY: That is a TNC error message. Your TNC transmit buffer is full and your TNC is NOT transmitting any packets! Usually, it means you are in the wrong MODEM mode, and the CARRIER detect is PREVENTING the TNC from ever transmitting due to the constant noise on HF...

|DE WB4APR in Annapolis MD.|

562. Re: [APRSSIG:5306] More LL BBS stuff

From: dwetzel@acs.uswest.com
Date: Tue, 19 Dec 1995 07:18:43 -0600
To: aprssig@tapr.org
Message-ID: <0d6bf9b0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

APRS and MacAPRS read AX25 UI data that has been stripped of the packet headers by the tnc itself. JNOS needs to see the AX25 headers, as well as the encapsulated TCP/IP headers in the data, so it must operate with the TNC in KISS mode. Neither APRS nor MacAPRS currently incorporate drivers for KISS - it's a non-trivial task to add them.

In addition, JNOS does not have an adequate method of setting UNPROTO digipeat paths without also affecting TCP/IP routing, and although makes an adequate TCP/IP router, is not up to the task of "digipeating" APRS data into the JNOS Internet world.

The same issues apply to NOS variants such as TNOS, G1EMM, NET/Mac, etc. It would probably be easier for the NOS developers to accommodate APRS than the other way around, as the NOS apps do support AX25 connections and UI frame

processing.

Doug
KC7CO
dwetzel@acs.uswest.com

Subject: [APRSSIG:5306] More LL BBS stuff
From: aprssig@tapr.org at Internet-Mail
Date: 12/18/95 18:32

Anybody here use JNOS and DOS? I THINK we can use that system.

Anybody an expert? I have a running copy and our Club uses it on a BBS. (w8dc.ampr.org) connected to a Gateway. (Hamgate.gvsu.edu)

I have been offered a port for this use. We currently have a Wormhole to Ann Arbor MI AND Tuson, AZ

Wonder if anybody wants to try this???

I am game...

Samuel T. Nabkey - WJ8T

{snabkey@wingsbbs.com}

563. Re: [APRSSIG:5299] RE: APRS Over LL BBS?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 09:44:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219094215.20530D-100000@greatlakes>
Rendered body type: text/plain

On Mon, 18 Dec 1995, Richard L. Holbert wrote:

> Ah, but, what I want to do is to use a machine with two serial ports. Com1
> hooked to the TNC and Com2 hooked to the modem. The computer just repeats
> what it hears on the TNC over the modem. The computer with the TNC doesn't
> even need to run APRS, but the computer on the other side of the telephone
> line would be running APRS without a TNC.

APR REPLY: Yes, but then you have to sit and monitor paying long
distnace rates for 15 minutes or more before you see the whole picture...
My idea lets each person get the whole update in 10 seconds.

564. Re: [APRSSIG:5324] Re: Overflow with U-2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 09:47:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219094609.20530E-100000@greatlakes>
Rendered body type: text/plain

On Mon, 18 Dec 1995, hasan schiers wrote:

> By the way, Bob, is anyone besides me telling you about the U-2000
> overflow problem or are you and I the only ones playing with it at

APR REPLY: I have now 2 reports. Yours and N4QEA in Tennessee..
My (2000) of course works fine.... hi hi I am holding off on releasing
APRS75 until we figure out what is going on....

|DE WB4APR in Annapolis MD.|

565. APRS solution for COM ports

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 09:58:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219094818.20530F-100000@greatlakes>
Rendered body type: text/plain

On Mon, 18 Dec 1995, Peter Short wrote:

> >Yes APRS does work on com3 and com 4.....

APR REPLY: Yes, but ONLY if you use the same interrupts. (such a waste)

RULE #1: A HAM will NEVER have enough COMM PORTS

SOLUTION: On the side of my PC, I mounted a small bracket that holds two DB-9 male serial connectors. These are connected to COM1 and COM2 on the back of my PC. On my desk top in front of these two connectors are laying a DOZEN or more serial data cables that connect to EVERYTHING in my cozy little world. I Plug in whatever I need, whenever I need it.

I have never looked at a COM card, I have NEVER had to move interrupts and have my PC die for days while I re-configure for each new aquisition. I never have used SETUP on my PC. It is as STOCK as the day I opened the box. I never have COMPART conflicts, and I can even PLUG in a MOUSE if I have to... I ALWAYS have two dedicated COM ports available for EVERY application.

Total investment is about \$0.79 per connector and about the same for the hoods...

|DE WB4APR in Annapolis MD.|\n-----

566. Another U-2000 test?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 10:04:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219100126.20530H-100000@greatlakes>
Rendered body type: text/plain

On Mon, 18 Dec 1995, hasan schiers wrote:

> I have tried to set it below 5, but it won't go...and still getting crashes
> every few minutes while set at 5. Time to shut it off until the code gets
> fixed.

APR REPLY: OK, I still cannot reproduce the problem on my 486 33. Can those of you with U-2000's COLD BOOT to DOS without ANYTHING else. Then confirm if you still have the problem?

|DE WB4APR in Annapolis MD.|\n-----

567. Re: [APRSSIG:5340] Re: GPS, Altitud

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 19 Dec 1995 09:30:32 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512191530.JAA09979@solar.cs.tamu.edu>
Rendered body type: text/plain

Henry Abbott sez:

>
> Another stupid question! Why cannot one simply refer to the nearest
> point of known coordinates and height, determine the
> instantaneous error between the known coordinates and GPS results and
> correct for it? Or is the SA implementation really more complex
> than that?

In some ways, this is exactly what one does with differential GPS. You put a receiver on a set of known coordinates and calculate the pseudorange (apparent range) and pseudorange rate errors for each of the PRNs you're receiving. You use these data to correct each set of matrix solutions on an epoch by epoch basis, either in real time or after the fact.

An older method of DPGS correction simply places a receiver on a known point and notes the error in Lat/Lon/Hgt and applies the appropriate correction to the solution derived by the roving receiver. The inherent problem here is that the reference site and the rover may not be using exactly the same satellites, nor the same algorithm for solution, thus making the "correction" of questionable value.

In my Cows In Space project, I am using a set of receivers that are identical and all have been set to utilize the same satellite selection criteria. They are all located within a couple of kilometers of each other, thus increasing the proability that they are all seeing the same satellites. I am transmitting DGPS data to them and getting onboard corrections in real time, to the entire

herd of 16 animals. 2 stations at sub-cm precision surveyed points are also established, using the same criteria, and receiving the DGPS data. The apparent error from the 2 fixed sites is collected and averaged, and the error from their known fixed locations is applied as a post-processing solution to improve the accuracy of my cow location.

73, gerry N5JXS
gerry@cs.tamu.edu

568. Re: [APRSSIG:5305] GPS-45 Auto Shut Off

From: W2H0B@aol.com
Date: Tue, 19 Dec 1995 10:31:04 -0500
To: aprssig@tapr.org
Message-ID: <951219103103_75871020@mail04.mail.aol.com>
Rendered body type: text/plain

For the station that noticed his Garmin GPS-45 shutting off after a time period... might you be in the POWER SAVER mode? Check your booklet to double check... it is supposed to do that to save your batteries but can be toggled not to

There is also a time out period for the display backlite... this is set from the last page of the display... read the book... I forget which page it's on and am in a hurry to get out of the door!!!

Have fun es 73 de Boyd (w2hob@aol.com)

569. Cheap Differential

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 10:36:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219102325.20530L-100000@greatlakes>
Rendered body type: text/plain

On Tue, 19 Dec 1995, Henry Abbott wrote:

> Another stupid question! Why cannot one simply refer to the nearest
> point of known coordinates and height, determine the
> instantaneous error between the known coordinates and GPS results and
> correct for it?

APR REPLY: That is exactly what differential correction is. The differential engine uses that data to calculate the apparent errors of each of the satellites and then BROADCASTS this list of errors in a format called RTCM-104. Most GPS receivers will accept that serial data stream and use the data to IMPROVE their position SIGNIFICANTLY! But these Differential correction engines cost THOUSANDS of dollars and require a separate serial data link to the MOBILE.

CHEAP SUBSTITUTE: If you have TWO identical GPS units (using the same software algorithms), and the antennas see the same satellites, then they SHOULD usually give the same posit. Hook one to your BASE STATION APRS and the other in your mobile. Now, since the base station KNOWS its exact posit, it simply calculates the offset and subtracts that from the mobile's posit on every packet. The mobile is therefore plotted to the same accuracy that you know where YOUR BASE station is.

- * You can figure out exactly where your basestation is by simply averaging your GPS posit over several hours(or days)
- * This only works if you are using the same model GPS for the mobile and base...
- * It only works if the units are using the SAME SATELLITES

THIS MODE IS CALLED PSEUDO DIFFERENTIAL and has been in the APRS version sold via PacComm for commercial applications for over a year...

|DE WB4APR in Annapolis MD.|\n-----

570. Re: [APRSSIG:5296] Re: Stolen callsigns

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 19 Dec 1995 10:27:29 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9512191011.C17079-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

On Mon, 18 Dec 1995 WB4LTF@aol.com wrote:

> I also get some other Call sign changes that show up as Wi4XXX with the lower
> case i instead of the correct call.

I've seen this problem running both from DOS and Windows 3.1. I'm
running APRS 7.4c and have seen it back to 7.4 (perhaps earlier).

In all cases the i is accompanied with the grave accent mark.

I've never seen the callsign replacement problem.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us
http: //ourworld.compuserve.com/homepages/bmanley

571. Re: [APRSSIG:5349] Re: More LL BBS stuff

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 19 Dec 1995 09:39:15 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512191539.JAA10125@solar.cs.tamu.edu>
Rendered body type: text/plain

dwetzel@acs.uswest.com sez:

>
>
> APRS and MacAPRS read AX25 UI data that has been stripped of the packet headers
> by the tnc itself. JNOS needs to see the AX25 headers, as well as the
> encapsulated TCP/IP headers in the data, so it must operate with the TNC in KISS
> mode. Neither APRS nor MacAPRS currently incorporate drivers for KISS - it's a
> non-trivial task to add them.
>
> In addition, JNOS does not have an adequate method of setting UNPROTO digipeat
> paths without also affecting TCP/IP routing, and although makes an adequate TCP/
> IP router, is not up to the task of "digipeating" APRS data into the JNOS
> Internet world.
>
> The same issues apply to NOS variants such as TNOS, G1EMM, NET/Mac, etc. It
> would probably be easier for the NOS developers to accommodate APRS than the
> other way around, as the NOS apps do support AX25 connections and UI frame
> processing.

So... we bloat xNOS a little more with a couple of drivers... add an APRS
digipath, attach the GPS to the computer and go on? It's do-able, but I don't
have time to do it over the next couple of months, or maybe years!

Actually, writing an xNIX/socket (or streams) implementation of APRS shouldn't
be too difficult save the graphics, and that could be an impetus for an X
application. Hmmm....

gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

572. Re: [APRSSIG:5351] Re: Overflow with U-2000

From: W2H0B@aol.com
Date: Tue, 19 Dec 1995 10:45:17 -0500
To: aprssig@tapr.org
Message-ID: <951219104515_58305008@emout06.mail.aol.com>
Rendered body type: text/plain

Bob, WB4APR...

One thing I forgot to mention about the Comm-buffer-overflow problem &
that is the "best" mode, or the mode that causes the least problems here
is the DATA LOGGING MODE. The system ran all night without a
glitch using a sampling/update rate of 5-seconds. But as soon as I
used the keyboard to look at the P-Page or check the B-Page for any
new bulletins, it locked up... it also locks up while drawing the map...
also locks up while doing ANYTHING that takes time away from
getting data from the weather station (U-2000)...

Hope this additional tidbit helps Bob.
It's all white here this morning with more on the way.
Geez, I wish I was back in Houston!
73 de Boyd (w2hob@aol.com)

573. U-2000

From: "Baker, Donn B" <RV" <dbb4@P07.RV.unisys.com>
Date: Tue, 19 Dec 95 09:49:00 CST
To: aprs-submit <aprssig@tapr.org>
Message-ID: <30D6DF45@rsvl_gw.rsvl.unisys.com>
Rendered body type: text/plain

I've been following the problem reports re: overflow w/U-2000. I *just* ordered my U-2000 (Tuesday morning) and so have an interest.

One comment, if I may.... The brochure for the U-2000 talks about the four mode I/O port. Is there a difference in the data rate between "Data logging mode," (i.e., about once per second), and the "Complete record mode," (i.e., once per second, but more data) ? What mode is everybody using, both Bob, and those having trouble ? Could it be as simple as the "wrong" mode ?

Is anybody using a U-2000 in "Packet," or "Modem" mode ? I plan on using it in Packet mode, w/AEA PK-12 TNC and radio, NO computer. Anybody tried this yet ? Problems?

Thanks.
73 de Donn
WA2VOI/Ø
EN35ja

574. RE: [APRSSIG:5350] RE: APRS Over LL BBS?

From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Date: Tue, 19 Dec 1995 10:52:12
To: aprssig@tapr.org
Message-ID: <199512191552.KAA29466@manny.rcinet.com>
Rendered body type: text/plain

Both ideas have merit.

I wasn't thinking of using the system for long distance. My idea was to be able to display APRS position reports from mobile stations in near real-time and demonstrate APRS in RF hostile environments where it would be much easier to just hook a lap-top computer to a telephone and have it access a tnc located in an RF friendly environment, like our building on top of a large hill. The idea is to expose APRS to people who may not currently own a tnc, but who have access to a computer and a telephone modem.

The easiest solution provied by the SIG so far is to use a null-modem cable to hook the tnc directly to the modem. Of course, I think I would disable traffic from the modem going out over the tnc without some sort of password protection, etc.

Thanks for the advice.

On Tue, 19 Dec 1995 08:48:18 -0600 (CST),
aprssig@tapr.org wrote...
>On Mon, 18 Dec 1995, Richard L. Holbert wrote:
>
>> Ah, but, what I want to do is to use a machine with two serial ports.
>Com1
>> hooked to the TNC and Com2 hooked to the modem. The computer just
>repeats
>> what it hears on the TNC over the modem. The computer with the TNC
>doesn't
>> even need to run APRS, but the computer on the other side of the
>telephone
>> line would be running APRS without a TNC.
>
>APR REPLY: Yes, but then you have to sit and monitor paying long
>distnace rates for 15 minutes or more before you see the whole picture...
>My idea lets each person get the whole update in 10 seconds.
>
>
>

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: http://www.dma.org/~holbertr

575. Re: [APRSSIG:5263] Re: GPS, Altitud

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 19 Dec 1995 09:58:23 -0600
To: aprssig@tapr.org
Message-ID: <9512191558.AA16898@omnifest.uwm.edu>
Rendered body type: text/plain

Bob,

I said,:
> Re: induced error
> Personally I think this induced error ir "for the birds". Any
> need that might have exiosted is now gone. Maybel'll just go to
>

Thanks for explaining the result.

CUL & 73 de Dave

=====

David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

576. Re: trouble with 2 port pico w/internal GPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 10:22:02 -0500 (EST)
To: Scott Miller <scottm@sierra.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219101318.20530K-100000@greatlakes>
Rendered body type: text/plain

This person has a PICO and INTERNAL GPS. He was being seen by EVERYONE monitoring the channel, but he NEVER saw himself on the map.

APR REPLY:

If that is correct, then your PICO is transmitting its position to everyone over the AIR, but it is sending nothing to the APRS. And since APRS ignores all of its OWN packets, it will never update itself off the air.

The PICO (without ELOC and the new ^E mode) was designed for STAND-ALONE applications. (and it sounds like it is doing that job admirably)

WORKAROUND FIX: Set the alt-SETUP-MODES-MASTER command. This was designed for letting several PC's share a single TNC such as in a COMM center. In this arrangement, all of the PC's use the same CALLSIGN, so they must also look for packets from the same callssign to see what the other operators on their TNC are doing. MASTER mode will tell APRS to ACCEPT its OWN packets off the air.

This will let your mobile PC see itself just like everyone else, ASSUMING YUR POSIT WAS DIGIPEATED!

Best thing it to upgrade to the new PICO.

You noticed that it did work the one time you changed the TNC call to something different than what APRS thought it was...

|DE WB4APR in Annapolis MD.|\n-----

577. Re: [APRSSIG:5274] Hookup's

From: Randy Hammock <hammock@tis.telos.com>
Date: Tue, 19 Dec 1995 11:11:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.951219110433.11729A-100000@zentropa>
Rendered body type: text/plain

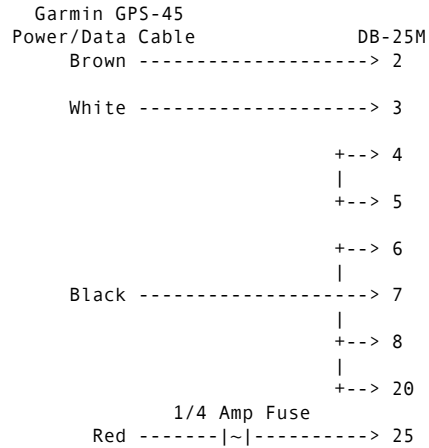
On Sun, 17 Dec 1995, William Nolle wrote:

> You know it would be just great if somebody that's well versed on the subject
> of hooking up WX,GPS,TNC;s etc would come up with a list on how to do's.
> I see so many messages how do you hook this up and how do you hook that

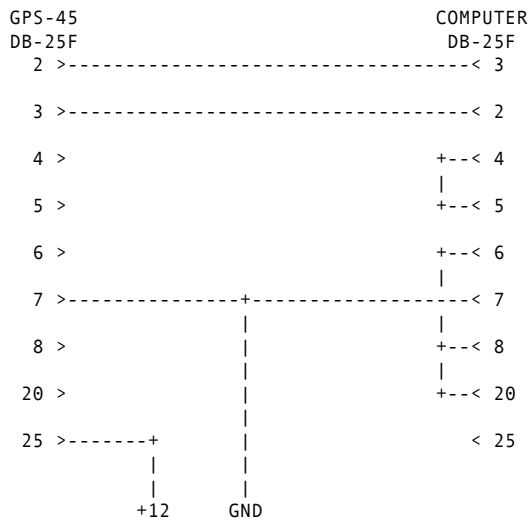
> up.

Here is my solution for connecting a Garmin GPS-45 to a KPC-3 or to a PC.

The following is a description of the connector wiring I use for the Garmin GPS-45 power/data cable to a DB-25M connector. This connection allows connecting a Garmin GPS to a KPC-3 for standalone tracker operation. Note the connections between the DB-25M pins 4 and 5, and 6, 8 and 20. This will dummy any flow-control signals to the device that the cable is plugged into. The KPC-3 was configured to send power out the DB-25F connector (KPC-3 manual Page 96; "DB-25 Wiring Options: Applying Power through the DB-25 connector").



The following is a description of the adapter cable that is used to connect a Garmin GPS-45 to an IBM PC. This assumes the power data cable for the Garmin has been wired as described above. Basically, this adapter is just a NULL-MODEM that has had the power line attachments made to it. The cable above can be plugged into the adapter below, allowing external power to be supplied to the GPS-45, while using a PC to upload/download the GPS unit.



--

| | | |
|---------------------------------------|--|-------------------------|
| Randy Hammock KC6HUR | | Randy.Hammock@Telos.com |
| Telos Information Systems - EDOS | | hammock@gmd.trw.com |
| 7474 Greenway Center Drive; Suite 400 | | Voice: +1 301 507-5904 |
| Greenbelt, Maryland 20770 | | FAX: +1 301 507-5892 |

578. Re: [APRSSIG:5355] Re: GPS-45 Auto Shut Off

From: "Randy Hall" <randyh@gvgadg.gvg.TEK.COM>
Date: Tue, 19 Dec 95 09:17:05 PST
To: aprssig@tapr.org
Message-ID: <9512191717.AA16208@gvgadg.gvg.tek.com>
Rendered body type: text/plain

Thanks for the info on the GPS-45 shutting itself off. I put fresh batteries in it and that seems to help.

Getting everything ready for the trip.

I really cut down the cable mess.

I am using a FT-470 HT for the radio. I gutted an old battery pack and made that my junction box for most of the cables. I now velcro the pico on the back of the radio, and have a 6" audio cable going to the top of the 470. I also now have the power/data cable from the GPS-45 going into the junction battery pack. Inside the pack I have two fuses, one for the radio/pico and the other for the GPS. There are two 6" cables from the junction pack to carry power and data to the pico. So, many of the cables have been shorten. I then have one power cable from the junction pack to my 12V 6.5 AH battery.

This now makes for a rather compact setup. So the cables are:

```
GPS ANT ----- GPS RCV -----JUNCTION PACK / RADIO -----POWER
                                   |
                                   |
                                   PICO
                                   |
                                   |
                                   LAPTOP, if used
```

So, back to packing and tweaking the setup. On the train tomorrow!!

Randy
WA2AGE

579. TNC strings to an AEA PK-900

From: Bob Powers <bob@ia-ngnet.army.mil>
Date: Tue, 19 Dec 1995 11:27:22 -0800
To: aprssig@tapr.org
Message-ID: <30D7121A.2991@ia-ngnet.army.mil>
Rendered body type: text/plain

Bob,

I am using APRS 7.4e with an AEA PK-900. I know you have built some functions in to handle the dual port capability, but had a few questions.

- 1) What port are you assuming APRS to be running on (Port 2?)
- 2) What are you using for the port switch character (|?)
- 3) When sending commands, are you sure they are going to the correct port?

My main question is with question 3. I think I know the answer to the first 2. When sending commands that are port specific the command is: port 1 command/port 2 command. And if your are only concerned with port 2 you can leave out the port one stuff and just precede the command with a / such as /mon 2 would change port 2 monitor level. From what I could see this is not being done and many of the commands such as unproto are being sent to port 1.

Bob Powers N0YKX
bob@iagate.guard.state.ia.us

580. GPS and missiles

From: DDOBBINS@aol.com
Date: Tue, 19 Dec 1995 12:54:45 -0500
To: aprssig@tapr.org
Message-ID: <951219125444_94462024@emout05.mail.aol.com>
Rendered body type: text/plain

Aloha all. I believe the Iraqis did have a number of Garmin 45's installed in their SCUD ballistic missiles but suffered the same problem as the rest of us, when the missile exceeded 99 kts, which of course was about 1 second after liftoff, the GPS lost track and failed to provide the crucial guidance needed for ballistic bombing. So there you go, with SA and limited speed (marketing strategy) of the Garmin 45, it is no good for cruise missiles either. Personally I love my Garmin 45. I've used it in the car, a rubber zodiac and airplane cruising around Oahu, and in just a minute I'm going to use it to find my favorite spot at the beach. Dave.

581. Re: [APRSSIG:5364] Re: Hookup's

From: ke4eer@ro.com (William Nolle)
Date: Tue, 19 Dec 1995 11:56:41
To: aprssig@tapr.org
Message-ID: <199512191903.NAA17995@sh1.ro.com>
Rendered body type: text/plain

This is great and just what i'm talking about, but it's not complete in a sence that a new ham just getting this fine looking new equipment like a GPS and a brand new KPC3 now he knows how to hook the two together but how does he program the TNC to work with the GPS without having to spend hours looking trough the manual and trying his setting only to find out it didn't work. Maybe i'm just asking to much?. By the way Randy thanks i am going to save these files so in the future if someone askes the question i can supply the info to him.

Bill KE4EER

>On Sun, 17 Dec 1995, William Nolle wrote:

>
>> You know it would be just great if somebody that's well versed on the subject
>> of hooking up WX,GPS,TNC;s etc would come up with a list on how to do's.
>> I see so many messages how do you hook this up and how do you hook that
>> up.

>Here is my solution for connecting a Garmin GPS-45 to a KPC-3 or to a PC.

>
>The following is a description of the connector wiring I use for the Garmin
>GPS-45 power/data cable to a DB-25M connector. This connection allows
>connecting a Garmin GPS to a KPC-3 for standalone tracker operation. Note
>the connections between the DB-25M pins 4 and 5, and 6, 8 and 20. This will
>dummy any flow-control signals to the device that the cable is plugged into.
>The KPC-3 was configured to send power out the DB-25F connector (KPC-3 manual
>Page 96; "DB-25 Wiring Options: Applying Power through the DB-25 connector").

>
>
> Garmin GPS-45
>Power/Data Cable DB-25M
>Brown -----> 2
>
> White -----> 3
>
> +--> 4
> |
> +--> 5
>
> +--> 6
> |
> Black -----> 7
> |
> +--> 8
> |
> +--> 20
> 1/4 Amp Fuse
> Red -----|~|-----> 25
>
>

>The following is a description of the adapter cable that is used to connect
>a Garmin GPS-45 to an IBM PC. This assumes the power data cable for the
>Garmin has been wired as described above. Basically, this adapter is just
>a NULL-MODEM that has had the power line attachments made to it. The cable
>above can be plugged into the adpater below, allowing external power to be
>supplied to the GPS-45, while using a PC to upload/download the GPS unit.

>
>
> GPS-45 COMPUTER
> DB-25F DB-25F
> 2 >-----< 3
>
> 3 >-----< 2
>
> 4 > +--< 4
> |
> 5 > +--< 5
>
> 6 > +--< 6
> |
> 7 >-----+-----< 7
> | |
> 8 > +--< 8
> | |

the claim. I believe SCUD's of this ilk are fitted with fairly simple inertial guidance systems and were never designed for pinpoint targeting. They are a cheap terror weapon akin to the V-1 and V-2 and not much more complex.

Perhaps we can find a person stationed at Aberdeen Proving Grounds...

Mark Fellhauer
KC7BX5
sparkfel@primenet.com

585. Re: [APRSSIG:5368] Re: Hookup's

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Tue, 19 Dec 1995 12:10:05 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199512191910.MAA05942@usr1.primenet.com>
Rendered body type: text/plain

At 12:04 PM 12/19/95 -0600, William Nolle wrote:
>This is great and just what i'm talking about, but it's not complete in a sence
>that a new ham just getting this fine looking new equipment like a GPS and a
>brand new KPC3 now he knows how to hook the two together but how does
>he program the TNC to work with the GPS without having to spend hours
>looking through the manual and trying his setting only to find out it didn't
work.
>Maybe i'm just asking to much?. By the way Randy thanks i am going to save
>these files so in the future if someone askes the question i can supply the
>info to him.
>
>Bill KE4EER
>-----

Bill,

Hooking up a KPC-3 to a GPS is a simple operation. Kantronics even included a one page instruction sheet on this when I got my firmware upgrade. Although it's been a while since I've done it, it seems to me I only had to set one or two lines in the KPC-3 and set the intface command to GPS. To my surprise, the first time I did this, APRS started accepting the RAW GPS data right away, and displaying it on the map in the correct position.

Note: I did have the advantage of two tranceivers and two TNC's, so setting up a low power simplex link was not a problem. This does help in trouble shooting. I really like the fact that I can turn the GPS Beacon on and off via the remote mode of the KPC-3.

It didn't take me hours, it only took about 5 minutes. Of course, since I usually use a digital mode repeater for my APRS work, setting pathways isn't necessary, and I've never bothered to alter my GPS string, since APRS will accept the raw data. The only thing I've changed is my SSID to get different icons. But since this is all stored in the KPC-3's memory all I have to do is set the intface to GPS when I want to use the setup as a tracker. I admit it may be a little more difficult in other circumstances.

If you (or anyone else with a KPC-3) require assistance, please e-mail me.

Mark Fellhauer
KC7BX5
ThunderBird ARC Packet Coordinator
sparkfel@primenet.com

586. Re: GPS and missiles

From: Jim DeLoach <jim.deloach@cellnet.com>
Date: Tue, 19 Dec 1995 12:06:58 -0800
To: aprssig@tapr.org
Message-ID: <199512192013.MAA04521@cellmail.cellnet.com>
Rendered body type: text/plain

Look folks, the first nuclear bomb to go off in the United States will probably ride in on a donkey cart!

The real issue is that our government needs to realize that the GPS system is both a military AND a commercial resource crucial to our nations well being. SA is merely spawning a differential-correction industry (companies like DCI, and organizations like the Coast Guard) that aren't really necessary, and I doubt it is contributing much to our security. My guess is that should ICBMs get launched, GPS would totally shut off or otherwise make itself useless to hostile forces.

On a related note, isn't it about time GPS users who are not US tax payers contributed to its upkeep? Is this already happening? How about we shut the birds down from time to time over other parts of the world till some other well to do nations pony-up?

Cheers.
Jim, WU0I

587. Quick Question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 15:58:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219155428.27895A-100000@greatlakes>
Rendered body type: text/plain

I just went to fix the U-2000 overflow problem and noticed that every time I start up APRS, that the TNC sends out some of the TNC-INIT stuff over the air.

I know this happens sometimes, but now it is happening EVERYTIME. I RESET my TNC to factory defaults, and it still does it! (each startup of APRS)

This is with 74e. Is everyone else seeing this or Have I just got my TNC screwed up...

|DE WB4APR in Annapolis MD.|

588. Re: [APRSSIG:5373] Re: GPS and missiles

From: geh@aip.org (gordon_hardman)
Date: Tue, 19 Dec 95 16:04:45 EST
To: aprssig@tapr.org
Message-ID: <9512192104.AA06106@aip.org>
Rendered body type: text/plain

Two points to ponder were made at the ION GPS-95 conference:

- 1) Having S.A. on during peacetime enables a potential adversary to develop and test means of defeating it (SA!), thereby rendering it ineffective during periods of tension.....
- 2) Reliability of the GLONASS spacecraft has increased dramatically over the last couple of years ther
there are now almost as many Russian satellites on line as GPS- and dual-compatible receiver designs are being developed.

In response to the comment on velocity limits, commercial vendors (in the US at least) of SPS receivers are obliged by the US government to limit either velocity or altitude useability of their receivers in order to preclude their use in guided munitions.

Gordon Hardman
KE3D
<geh@aip.org>

589. Re: [APRSSIG:5366] TNC strings to an AEA PK-900

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 16:09:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219160513.27895B-100000@greatlakes>
Rendered body type: text/plain

On Tue, 19 Dec 1995, Bob Powers wrote:

- > I am using APRS 7.4e with an AEA PK-900. I know you have built some
- > functions in to handle the dual port capability, but had a few questions.
- > When sending commands, are you sure they are going to the correct port?
- >
- > When sending commands that are port specific the command is:
- > port 1 command/port 2 command.

APR REPLY: APRS sends the commands just as you enter them... If you want to set up a path of X,Y,Z on the first port and A,B,C on the second one, then you must enter an unproto path of X,Y,Z/APRS VIA A,B,C...

APRS will send the path just as you enter it. So put what ever you want into the proto command including dual port paths. Notice that APRS DOES put the initial UNPROTO APRS VIA.... on the beginnning....

|DE WB4APR in Annapolis MD.|

590. Error Ellipse from NMEA-0183 output??

From: Jim DeLoach <jim.deloach@cellnet.com>
Date: Tue, 19 Dec 1995 13:12:24 -0800
To: aprssig@tapr.org
Message-ID: <199512192118.NAA05927@cellmail.cellnet.com>
Rendered body type: text/plain

I would like to know the error ellipse for GPS-provided position reading. For my purposes, an error ellipse is a 2-D region around the predicted lat/long wherein the confidence that the "true" position is within this region exceeds some threshold (like 50% or 95%). It seems that an error ellipse might be real handy if the x-dimension error is much greater than the y-dimension, or visa versa.

Is such a thing output as part of the NMEA-0183 spec? I am using a Garmin GPS-75 at the moment, with a commercially provided differential correction input. I would appreciate any suggestions.

Thanks.
Jim, WU0I

591. Re: [APRSSIG:5373] Re: GPS and missiles

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Tue, 19 Dec 1995 22:24:43 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9512192124.AA09690@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

Jim DeLoach writes:

> On a related note, isn't it about time GPS users who are not US tax payers
> contributed to its upkeep? Is this already happening? How about we shut
> the birds down from time to time over other parts of the world till some
> other well to do nations pony-up?

I've had the same thoughts, but be careful! One idea already tossed around by some armchair lawmakers at one point was: those who USE GPS PAY for it, and the best way to collect usage fees is to either charge a tax (potentially very large) on all GPS receivers, and/or (2) require a license and an annual fee in order to own a GPS receiver. Your idea might work and get other countries to pay up, but it also might mean changes for GPS users in the U.S. as well. Changes you may not favor.

--Shannon, DL6SEU (A German *and* a U.S. taxpayer!)

592. U-2000 beta fix

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 17:20:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219171717.28824A@greatlakes>
Rendered body type: text/plain

I just posted beta2000.zip which contains APRS74f.exe which is a beta test of the fixes to make the U-2000 avoid COM OVERFLOWS...

If you have a U-2000, please give it a try...

If anyone here is in SE Michigan, please keep KD1E informed of whats going on here. He doesnt need to get this BETA, but if it works, then he needs to get the version 75 when I release it, since he has a 2000...

|DE WB4APR in Annapolis MD.|

593. enough is enough

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Tue, 19 Dec 1995 16:32:47 -0600
To: aprssig@tapr.org
Message-ID: <2.2b9.32.19951219223247.006a2858@144.188.134.33>
Rendered body type: text/plain

Alright guys, the discussions lately have gotten off the topic of APRS a little too much for my taste. Bombs and politics make interesting discussions, ELSEWHERE. Thanks.

Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles).

594. Re: [APRSSIG:5374] Quick Question

From: DDOBBINS@aol.com
Date: Tue, 19 Dec 1995 17:38:42 -0500
To: aprssig@tapr.org
Message-ID: <951219171526_58628553@emout05.mail.aol.com>
Rendered body type: text/plain

Have not seen mine do this, but will take a close look next boot up. Dave.

595. Re: [APRSSIG:5353] Another U-2000 test?

From: schiers@ibm.net (hasan schiers)
Date: Tue, 19 Dec 95 22:42:07 EST
To: aprssig@tapr.org
Message-ID: <199512192244.WAA38772@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Tue, 19 Dec 1995 09:07:48 -0600 (CST) you wrote:

>On Mon, 18 Dec 1995, hasan schiers wrote:
>
>> I have tried to set it below 5, but it won't go...and still getting crashes
>> every few minutes while set at 5. Time to shut it off until the code gets
>> fixed.
>
>APR REPLY: OK, I still cannot reproduce the problem on my 486 33. Can those
>of you with U-2000's COLD BOOT to DOS without ANYTHING else. Then confirm
>if you still have the problem?
>
Great suggestion, Bob...I was just about to do that myself. I commented out the memory manager, eliminated everything but a path statement from autoexec.bat, deleted config.sys by renaming it. Result: no change, crash, crash, crash. MS-DOS 6.2, in case that is relevant. What DOS are you using?

Just went to dos 5.00....same result, crash. Error 6.

In both cases I tried update at 8 and 5 seconds (Wx update)

Any other ideas, I will be most willing to help. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

596. Re: [APRSSIG:5360] U-2000

From: schiers@ibm.net (hasan schiers)
Date: Tue, 19 Dec 95 23:01:31 EST
To: aprssig@tapr.org
Message-ID: <199512192348.XAA35524@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Tue, 19 Dec 1995 10:04:25 -0600 (CST) you wrote:

>
>I've been following the problem reports re: overflow w/U-2000. I *just*
>ordered my U-2000 (Tuesday morning) and so have an interest.
>
>One comment, if I may.... The brochure for the U-2000 talks about the four
>mode I/O port. Is there a difference in the data rate between "Data logging
>mode," (i.e., about once per second), and the "Complete record mode," (i.e.,
>once per second, but more data) ? What mode is everybody using, both Bob,
>and those having trouble ? Could it be as simple as the "wrong" mode ?
>
>Is anybody using a U-2000 in "Packet," or "Modem" mode ? I plan on using it
>in Packet mode, w/AEA PK-12 TNC and radio, NO computer. Anybody tried this
>yet ? Problems?
>
>Thanks.
>73 de Donn
>WA2VOI/0

Don, the only mode supported by APRS (computer program) is the data logging mode. (AFAIK)

We DO NOT want to change to another mode for use with APRS software or we lose the ability to use the 2nd serial port output of the U-2000 for logging real time data to disk. The Peet Bros software requires that the U-2000 be left in the data logging mode, so for APRS with computer setups, it is IMPERATIVE to stay with the standard data logging mode.

Besides, I am not sure APRS will properly decode the "packet mode" output of the U-2000, as it was designed to parse a full data sentence from the data logging mode. One thing to keep in mind: the structure of the data coming out of the U-2000 is TOTALLY DIFFERENT for each of the four supported modes, i.e., data logging, packet, complete, modem.

So far we have learned this much:

1. Some machines don't see the problem at all (Bob's for instance!)
2. Those of us having the problem (everyone else?) see some improvement by updating the Wx data more frequently than the default of every 15 seconds. Bob uses 8, and I have tried 5. In each case, the program would go longer without crashing, but still crashed. At 15 seconds, it crashed immediately.
3. It does not seem to matter whether one is running dos 5.0 or 6.2, both produce the same problem.
4. Eliminating memory managers like QEMM, doesn't help.
5. Speed of the machine doesn't seem to help. Bob is running a 486dx33, I am running a 486dx2/80 with 8 mb ram and a fast pci video card.

Looks like a timing or sampling problem because the U2000 puts out MUCH more data than the older U-II did. (90 data sentences per minute vs. 17)

Bob will get this figured out...he has everything else! It is a pity he can't reproduce it with his own machine. That is going to make the fix much more difficult.

73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

597. Re: [APRSSIG:5335] I Lied (7.4e & U-2000)

From: schiers@ibm.net (hasan schiers)
Date: Tue, 19 Dec 95 23:10:50 EST
To: aprssig@tapr.org
Message-ID: <199512192348.XAA28364@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Tue, 19 Dec 1995 00:26:10 -0600 (CST) you wrote:

>
>'Specially for Bob & Keith
>But For the SIG too...
>
>Setting the POSRate for the 5-seconds works ok if NOTHING else
>is fiddled with. If you don't touch the keyboard, APRS will sample
>the COM2: port (in my case), get the U-2000 weather and return
>to monitoring the frequency.
>
>Touch the keyboard, however, as I wanted to input the snow symbol,
>and lockup... Comm-buffer-overflow and you have to CTRL-ALT-DEL
>the computer. This was running on a 286 by the way... not my 486/66
>so maybe the faster CPU would not let the buffers overflow, but then
>maybe it would!
>
>I can unplug the DB-25 connector on the COM2: port and it will "empty out"...
>sometimes, but redrawing the map is slow enough on the 286 to cause it to
>lock up again...
>
>So, I guess there really is a problem after all... faster wx station
>output... more data to parse... hmmm!
>
>73 de Boyd (w2hob@aol.com)
>

Boyd, exactly right, there is a problem. There are at least 3 of us having it.
What kind of machine you running, what version dos? How much memory?
Any memory managers running? What bios? 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

598. AC6JA

From: AC6JA@aol.com
Date: Tue, 19 Dec 1995 19:31:19 -0500
To: aprssig@tapr.org
Message-ID: <951219193117_94810667@emout05.mail.aol.com>
Rendered body type: text/plain

subscribe

599. Re: [APRSSIG:5380] enough is enough

From: ke4eer@ro.com (William Nolle)
Date: Tue, 19 Dec 1995 18:37:32
To: aprssig@tapr.org
Message-ID: <199512200144.TAA02094@sh1.ro.com>
Rendered body type: text/plain

I agree, the missile issue specially, what does it have to do with APRS anyway, not that i read it anymore (Just hit the delete key) but see hardly anything anymore directly related the APRS.

Go ahead FLAME
KE4EER

>Alright guys, the discussions lately have gotten off the topic of APRS a
>little too much for my taste. Bombs and politics make interesting
>discussions, ELSEWHERE. Thanks.
>
>Paul, WD9ABE
>Maybe closer to GLNTC than anybody (5 miles).
>

600. Re: [APRSSIG:5377] Error Ellips

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Tue, 19 Dec 95 17:36:28 -0800
To: aprssig@tapr.org
Message-ID: <313ED73001B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

Jim-

For standard SPS service (i.e. L1 only), the reported accuracy ellipsoid as I recall is 100 meters horizontal, 168 meters vertical, 2-sigma (95% confidence). However, you stated that you are currently using a Garmin GPS-75 with commercially provided differential corrections. In that case you should defer to the claimed accuracies offered for the type of service. DCI Corrections and Acqupoint can provide accuracies within a few meters to sub-meter levels depending on the type of subscription service you choose. The USCG differential beacon stations are good to within tens of meters and is a free service but requires the purchase of a beacon receiver.

As far as the NMEA-0183 standard, the only NMEA sentences I found that might help give you a "feel" for absolute accuracy were \$GPGGA and \$GPGSA. \$GPGGA provides a value for HDOP (horizontal dilution of precision) and also provides the time in seconds since the last SC104 Type 1 or Type 9 update. \$GPGSA provides the PRN numbers of all the satellites used in the navigation solution plus provides values for HDOP, VDOP (vertical DOP), and PDOP (position DOP). [Info only--PDOP is the root sum square or RSS of HDOP and VDOP]. In general, a PDOP of 3 or less is desirable and indicates acceptable satellite geometry. PDOP can increase if certain satellites are blocked from view forcing a navigation solution from less optimally positioned satellites. Since I do not have a Garmin GPS-75, I do not know if any of the above information may be helpful.

73's de Mike KA6SPT

601. Re: [APRSSIG:5374] Quick Question

From: W2H0B@aol.com
Date: Tue, 19 Dec 1995 20:51:50 -0500
To: aprssig@tapr.org
Message-ID: <951219205149_76176867@mail04.mail.aol.com>
Rendered body type: text/plain

For Bob (APR)

Yes... APRS does allow some TNC parms to get out on-the-air.
Several of the "Jersey" users asked me about that. It kinda
"initializes" the TNC so the TNC continues to beacon them until
it gets it's real beacon from the U-2000 or the second line of the
CFG file. Just got BETA2000.ZIP --- Will let you know what happens!

73 de Boyd AR

602. Re: [APRSSIG:5379] U-2000 beta fix

From: schiers@ibm.net (hasan schiers)
Date: Wed, 20 Dec 95 02:15:31 EST
To: aprssig@tapr.org
Message-ID: <199512200216.CAA31663@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Tue, 19 Dec 1995 16:31:29 -0600 (CST) you wrote:

>I just posted beta2000.zip which contains APRS74f.exe which is a beta
>test of the fixes to make the U-2000 avoid COM OVERFLOWS...
>
>If you have a U-2000, please give it a try...
>
>If anyone here is in SE Michigan, please keep KD1E informed of whats
>going on here. He doesnt need to get this BETA, but if it works, then he
>needs to get the version 75 when I release it, since he has a 2000...
>
>
>-----
>|DE WB4APR in Annapolis MD.|
>-----

bob,

If anything it is worse. Can't even make it through initial setup without
getting the error the first time it tries to read the wx...using a setting of
5 for Wx update. Will try 15 now.....same problem...immediate crash after
validation number for wx. Sorry... 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

603. Re: [APRSSIG:5374] Quick Question

From: n2czf@gate.net
Date: Tue, 19 Dec 1995 21:36:55 -0500
To: aprssig@tapr.org
Message-ID: <199512200236.VAA42070@osceola.gate.net>
Rendered body type: text/plain

Yep, I get it also, it was all the time, then sometimes, now all the time again.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

604. U-2000 Beta So Far

From: W2H0B@aol.com
Date: Tue, 19 Dec 1995 22:42:55 -0500
To: aprssig@tapr.org
Message-ID: <951219224254_58993371@mail06.mail.aol.com>
Rendered body type: text/plain

So far, the 7.4f is working with my U-2000 (DATA LOGGING Mode)
with no glitches EXCEPT the TNC parms that get out occassionally.
I have the sampling/update rate set for my normal 15-sec's with a
beacon rate of every 5 minutes.

I can play with various LISTS/Pages and even send some one-liners
to some users, redraw the map and everything continues just as
good as it did with the U-II.

Except for the TNCparms that "escape", looks like you got it fixed
Bob... at least from my configuration here...

286 CPU 640M RAM 2 serial 1 parallel,20M HD DOS 5.0

As you can see not the most updated system but it's just a weather station... not a precision rocket launcher (!) and I'm not going to waste my two 486's on a job easily done by a lesser machine.

Thanks for taking a look at this.
73 de Boyd (w2hob@aol.com) AR

605. U-2000 Weather Stations for APRS

From: jeff.wallach@drig.com (Jeff Wallach)
Date: Tue, 19 Dec 95 21:10:00 -0600
To: aprssig@tapr.org
Message-ID: <59.47619.99.0C38EC08@drig.com>
Rendered body type: text/plain

There has been alot of discussion on the U-2000 interface to APRS as of late.

Several of us interested parties would like to get recommendations on where to purchase the units and what experiences you have with the U-22 vs. the newer units.

Perhaps best to direct email and take discussion off-line so as not to be off-topic for APRS.

thanks...

jeff n5itu

jwallach@drig.com

606. Wiring for Apple 2-E & KPC-3

From: dkaplan@pionet.net (Dave Kaplan)
Date: Tue, 19 Dec 1995 21:51:21 -0600
To: aprssig@tapr.org
Message-ID: <9512200402.AA23275@ELWOOD.pionet.net>
Rendered body type: text/plain

Can someone please provide a wiring diagram to connect an Apple Model 2-E to a KPC-3.

Dave

607. AUTOWX Alarms!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Dec 1995 23:01:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951219225310.77A-100000@greatlakes>
Rendered body type: text/plain

Well, My WX alarms went off the last two nights and I tracked it down to a WX station running the AUTOWX program. This program appears to output APRS formatted WX reports but it has two problems:

- 1) It uses an @ at the beginning of the packet. That character is reserved for APRS stations that are ON LINE and CAPABLE of receiving APRS messages. The AUTOWX program should begin its report with a "/" which indicates am OFFLINE APRS station, or other device that does NOT ACK messages
- 2) I called the author of AUTOWX and he told me that the RAIN and PRECIP values are the RAW U-II counts! Bummer. APRS defies the ON-AIR protocol for RAIN to be RAIN PER HOUR and PRECIP PER DAY. This means that unless an AUTOWX operator ZEROES his U-II counters Hourly and Daily, the values are NOT correct according to the definition.

ALSO as soon as you get 9.99 inches since the last time the operator ZEROED his counter, then EVERY ALARM IN EVERY APRS station is going to go off! If you have someone runnig AUTOWX in your area, be sure he is zeroing his RAIN counters to avoid these nuisance alarms!

Hopefully the author of AUTOWX will change to the sliding per hour and per day APRS definition...

|DE WB4APR in Annapolis MD.|

608. Re: [APRSSIG:5393] Wiring for Apple 2-E & KPC-3

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 20 Dec 1995 01:50:58 -0600
To: aprssig@tapr.org
Message-ID: <v02130500acfd701bbe4f@[205.240.209.134]>
Rendered body type: text/plain
>Can someone please provide a wiring diagram to connect an Apple Model 2-E to
>a KPC-3.
>

A tnc is a "Modem" just use a standard Apple or Mac RS-232 modem cable.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

609. Re: MACAPRS on MAC Plus??

From: jean@pubs17.si.com (Richard G. Jean Jr.)
Date: Tue, 19 Dec 95 14:12 EST
To: aprssig@tapr.org
Message-ID: <m0t575R-0002qMC@pubs17.si.com>
Rendered body type: text/plain

Hello Everyone and Merry XMAS !!!

Question: Will a Mac Plus run MACAPRS? I have the opportunity of acquiring one of these "Super Cheap" and am wondering if I should bother....

Thanx In Advance !!!

Rich

610. Re: [APRSSIG:5216] MAPLISTS and Bill's challenge!

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Wed, 20 Dec 1995 00:11:16 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.951220000755.5064A-100000@draco.bison.mb.ca>
Rendered body type: text/plain

On Fri, 15 Dec 1995, Bob Bruninga wrote:

> For someone that wants a nice little programming challenge, we need to
> take the code in MKMAPLIST.bas and modify it so that it not only scans all
> MAPS and builds a maplist,
>
> BUT THAT IT BUILDS A CORRECT ONE!

Ok I'll take the bait and see what I can do.

>
> This should be simple. Just scan through all the maps collecting their

Simple?! :-) Cum'on Bob! You've been programming how long now?!!

<g>

Michael

--

| | | |
|---|--|-------------------------------|
| Michael Markmann VE4MJM | | |
| ve4mjm@draco.bison.mb.ca (Internet) | | ERROR! REALITY.SYS Corrupted! |
| VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25) | | Reboot UNIVERSE.EXE! |
| Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ... | | |
| Too Many to Choose From!!! Arrrrrrggghhhh! | | |

611. Help! Pico HSP

From: jbc5@po.cwru.edu (Joe Carter)
Date: Wed, 20 Dec 1995 08:23:04 -0500
To: aprssig@tapr.org
Message-ID: <199512201323.IAA15016@slc5.INS.CWRU.Edu>
Rendered body type: text/plain

Help! My PicoPacket, (2 serial port model, release 3.2.9.2, 25 Nov, 95) has lost its ability to update via HSP. I can still read via ELO and LOC, but F8 and POSrate just get "HSP Port Timeout" message. Have double checked all the cables and GPS (Garmin 45), and Pico unit otherwise working properly. It was working when I first hooked it up on the

Joe Carter, AA8SF
jbc5@po.cwru.edu
aa8sf@wa8bxn.neoh.oh.usa

when APRS tries to talk to the tnc in the foreground, it would lock and the only way out of it was to end the task in windows 95.
Also every time I started it up it would have com i/o glitches and would take a while before it would talk to the tnc, that works ok now. It ran all last nite without a glitch.
I am using a Pentium 60mhz, with four 16550 serial ports, and of course, I can only run APRS on com 1 and 2 because of the IRQ addresses of com 3 and 4 are irq 5 and irq 11, which are not supported by APRS.
My Mouse will only work on com 1 or 2, which leaves APRS to TNC on the other, now how can I run the wx station on com 3 or 4 with APRS, are the driver's in the works?
Will check it out as soon as my UII with U2000 upgrade arrives,
Best of Season's Greetings to the SIG

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

615. Re: [APRSSIG:5396] Re: MACAPRS on MAC Plus??

From: davidc@tbcnet.com (David Chesser)
Date: Wed, 20 Dec 1995 08:29:57 -0600
To: aprssig@tapr.org
Message-ID: <199512201429.IAA27010@tbc2.tbcnet.com>
Rendered body type: text/plain

A MacPlus running system 7.0 and 4 megs of ram will run MacAPRS if the airport and zip code data wont be used.

616. Re: [APRSSIG:5400] Re: U-2000 serial pinout

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Dec 1995 09:35:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951220093422.2179A-100000@greatlakes>
Rendered body type: text/plain

On Wed, 20 Dec 1995, David Barrett wrote:

> I saw the item in the manual about the H port so I'm not about to fry the
> unit! I decided to just order the damn cable from Peet along with the data
> logger software. I will determine the pinouts for the U-2000 rs232 cable and
> post the layout of the cable here for any that might be interested. Thanks
> anyway to all

WB4APR REPLY COMMENT:

The U-2000 pin out is the same as the U-II. See my WX.txt The only diff is that you do NOT need the pull down resistor...

617. Re: [APRSSIG:5373] Re: GPS and missiles

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 20 Dec 1995 09:18:16 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199512201518.JAA22043@solar.cs.tamu.edu>
Rendered body type: text/plain

Jim DeLoach sez:

>

> Look folks, the first nuclear bomb to go off in the United States will
> probably ride in on a donkey cart!

See Tom Clancy's "The Sum of All Fears"

> The real issue is that our government needs to realize that the GPS system
> is both a military AND a commercial resource crucial to our nations well
> being. SA is merely spawning a differential-correction industry (companies
> like DCI, and organizations like the Coast Guard) that aren't really
> necessary, and I doubt it is contributing much to our security. My guess is
> that should ICBMs get launched, GPS would totally shut off or otherwise make
> itself useless to hostile forces.

More than likely, if we have a sufficient launch warning, we'll shut down a lot more than just the GPS birds, to diminish the flash-damage from an airburst. Generally, if the launch vehicle is ballistic, I'm not too worried about a GPS-guided terminal phase. I'm just plain worried. An airburst over Houston would complicate my life needlessly, although I doubt a minor power would target College Station and complicate it significantly...

The various Differential sources are, in fact, needed to improve position data over that provided by Standard Positioning Service for precision applications. Surveying, which uses L1 and L2, requires use of a base station and either real time (kinematic) updates or post-processing to achieve sub-cm precision. Similarly, the Coast Guard and Corps of Engineers have been experimenting with RTK navigation-aided ship handling in restricted channels. Neither of these, nor a host of other applications can be achieved using SPS or Precision Position Service natively. And "Why not," you ask? Simple answer. The satellite precise ephemeris sent by the Space Vehicles (I sure hope W3IWI isn't looking:-) is accurate enough to place the location of the satellite within (about) a 10 meter spheroid at any given time. Assuming, for the nonce, that Selective Availability is OFF, and minimizing errors in the various onboard clocks with regard to the master reference clock, you have a potential pseudorange error, off the top, of about 17 meters (2-sigma). Signals travelling through the ionosphere and stratosphere are subject to some induced delay. While this is modelled, and the model data are updated periodically in the Broadcast Message, the fact is the model is not perfect, and compensation based on it is prone to some error.

Use of several satellites to determine position, and use of a Least Squares Estimator to compare various solutions, as well as smoothing based on carrier phase and code phase data allow some increase accuracy of the solution. SPS uses a shorter sequence of Pseudo Random Numbers in their system than PPS. This, too, contributes to less precision in determining a fix. Oh... And I forgot to mention multipath. This bugaboo can nail both SPS and PPS systems. On our surveying gear, we use a .7 meter (diameter) groundplane to minimize the effect of reflections and multipath, and attempt to set the antenna as high as possible (a couple of meters) to reduce the effects of local reflections. Trimble recommends, as well, that vehicles be restricted to no closer than 100 meters when a precision point is being taken. On a good day, using L1 only without L2 code or carrier phase correlation, discounting most of the ionospheric delay and discounting multipath, you can expect about a 10 meter diameter ellipsoid of error for SPS and about a 3 meter ellipsoid for PPS.

Real time correction can occur at several levels. For discussion, I'll talk about the two I spend most of my time with: RTCM ("Mapping Grade") correction was originally developed for harbor navigation, with aviation industry input, and will improve SPS and PPS by about an order of magnitude (100 meter [a BAD day] -> 10 meter; 10 meter -> 1 meter or so...) and RTK, which most of the cheap GPS receivers cannot handle, which is able to allow significant submeter resolution (we can usually reproduce 2 cm error ellipsoids around here).

RTCM (Radio Technical Committee for Maritime Operations) corrections are based on using a base station at a known point, and assume, typically, an L1/SPS-grade receiver. The receiver compares the pseudorange (apparent range of the receiver to the spacecraft) based on timing signals with its calculation of the spacecraft's anticipated pseudorange based on the broadcast ephemeris (sent by the individual birds), and issues a set of corrections. It also sends timing (Epoch) data and satellite health data so the receivers can error out a satellite if it's unhealthy. This, of course, demands that the base station and the roving station receiving the corrections be looking at the same satellites. If they're not, then only limited correction can occur. FURTHER, as you get farther from the base station, the precision of the correction diminishes. Thus, a base station 350 km away may not give much improvement over an autonomous position fix.

> On a related note, isn't it about time GPS users who are not US tax payers
> contributed to its upkeep? Is this already happening? How about we shut
> the birds down from time to time over other parts of the world till some
> other well to do nations pony-up?

No. We have national interests ("military") in a lot of those areas. If we turn off SPS their PLGRs stop working, too. And, it'd be pretty irresponsible to turn off a mode we turned on simply to try and strongarm some change from the rest of the world. What we're doing, instead, is gaining access to the GLOSNAASS system the Russians have launched and maintain, and are continuing to do so at no cost to the world. Newer receivers are starting to come out that are capable of receiving both systems, and either select the best fix, or integrate the two. So, tell me... you're flying your light twin over Europe, with your Garmin GPS-150 onboard, meeting the applicable FARs for enroute navigation, and complying with the appropriate ATC regulations for the airspace you're in (they allow enroute navigation by GPS too) when the lights go out... Once you've started using it, it's no fun to have to go back to VORs. And if you're in IFR conditions, and your situation changes like that, you're suddenly in a significantly increased-workload environment. That's no fun.

No, thank you, I don't think strong-arm tactics are appropriate here.

618. Paint Shop Pro (screen grabber/graphics prgrm)/win

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Wed, 20 Dec 1995 10:52:26 +0000
To: aprssig@tapr.org
Message-ID: <199512201553.KAA29214@hemisphere.neocomm.net>
Rendered body type: text/plain

Here is a nice shareware program for manipulating graphics of all types. It allows you to capture a window or a mouse selected area of any windowed program (Hit <alt><enter> to put APRS into a window). The captured file is a .bmp but can be saved as one of 30 some different formats, mac format too. You can view pictures of some 30 different formats, resize, change color count, much better program than Paint Brush/win. However it does not let you draw and write on the pictures, you still will need Paint Brush for this.
download 30 day trail from:
<http://www.jasc.com/pspdl.html>
<ftp.jasc.com/pub/psp311.zip>
<ftp.winternet.com.users/jasc/psp311.zip>

Merry Christmas to ALL..!!!!
cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4Q0J.VA.USA.NOAM

619. Re: Error Ellipses

From: Jim DeLoach <jim.deloach@cellnet.com>
Date: Wed, 20 Dec 1995 08:40:15 -0800
To: tweedy@pc.gcs.litton.com
Cc: aprssig@tapr.org
Message-ID: <199512201646.IAA22230@cellmail.cellnet.com>
Rendered body type: text/plain

Hi Mike,

Thanks for you response concerning GPS error ellipses. Your comments bring to mind still more questions:

(1)

I presume the precision provided by the GPS receiver is DYNAMIC, and changes as a function of which birds are in view, how many obstructions are around me as I drive around, etc. Will the GPS receivers' "HDOP" reflect these factors and change accordingly?

(2)

Is it true that the errors will tend to be evenly distributed between the x-axis (east-west) and y-axis (north-south)? Is it ever the case that the x-axis error is much less then the y-axis (or visa versa), and would the GPS receiver be able to predict this?

(3)

I am investigating both DCI and the Coast Guard beacon receivers for differential correction information. Why do you say the Coast Guard correction information provides accuracies "within tens of meters" while DCI can get into the meter range? Does this have to do with how far one is from the reference receiver? What if the reference receiver is close?

I would appreciate any input on this.

Thanks for the help!

73s
Jim, WU0I

At 07:43 PM 12/19/95 -0600, "TWEEDY, MIKE WH:2453"
<tweedy@pc.gcs.litton.com> wrote:
>Jim-
>For standard SPS service (i.e. L1 only), the reported accuracy ellipsoid
>as I recall is 100 meters horizontal, 168 meters vertical, 2-sigma (95%

>confidence). However, you stated that you are currently using a Garmin
>GPS-75 with commercially provided differential corrections. In that case
>you should defer to the claimed accuracies offered for the type of
>service. DCI Corrections and Acupoint can provide accuracies within a
>few meters to sub-meter levels depending on the type of subscription
>service you choose. The USCG differential beacon stations are good to
>within tens of meters and is a free service but requires the purchase of
>a beacon receiver.
>
>As far as the NMEA-0183 standard, the only NMEA sentences I found that
>might help give you a "feel" for absolute accuracy were \$GPGGA and
>\$GPGSA. \$GPGGA provides a value for HDOP (horizontal dilution of
>precision) and also provides the time in seconds since the last SC104
>Type 1 or Type 9 update. \$GPGSA provides the PRN numbers of all the
>satellites used in the navigation solution plus provides values for HDOP,
>VDOP (vertical DOP), and PDOP (position DOP). [Info only--PDOP is the
>root sum square or RSS of HDOP and VDOP]. In general, a PDOP of 3 or
>less is desirable and indicates acceptable satellite geometry. PDOP can
>increase if certain satellites are blocked from view forcing a navigation
>solution from less optimally positioned satellites. Since I do not have
>a Garmin GPS-75, I do not know if any of the above information may be
>helpful.
>
>73's de Mike KA6SPT
>
>
>

620. Re: [APRSSIG:5404] Re: GPS and missiles

From: Barry Leonard <jleonard@tbcnet.com>
Date: Wed, 20 Dec 1995 11:29:00 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.951220112508.29349A-100000@tbc2.tbcnet.com>
Rendered body type: text/plain

let's see...

how did I say I was going to handle NON-APRS subjects on this SIG?

Oh, I remember now!

DELETE!

(and there it goes, into the trashcan.)

Barry Leonard
N9VJQ
jleonard@tbcnet.com

621. Re: [APRSSIG:5386] Re: enough is enough

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Wed, 20 Dec 1995 09:46:34 -0800
To: aprssig@tapr.org
Message-ID: <v01510100acfd703245d@[128.149.100.84]>
Rendered body type: text/plain

>I agree, the missile issue specially, what does it have to do with APRS
>anyway, not that i read it anymore (Just hit the delete key) but see hardly
>anything anymore directly related the APRS.

Actually it has helped my understanding of how GPS works a bit.

-Greg

--

| | |
|-----------------------------------|--|
| Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov |
| Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org |
| Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA |
| M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107 |
| Pasadena, CA 91109 | |

622. GPS Moving Map shareware

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Dec 1995 13:09:47 -0500 (EST)
To: Bruce Taylor <blt+@CMU.EDU>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951220130411.5891A-100000@greatlakes>
Rendered body type: text/plain

RE: APRS on CB, Marine band, and other channels

It depends on who's lawyer you talk to, hi hi.

DIGITAL DATA transmission is prohibited on CB

Selective calling, using tones for the purpose of establishing and/or maintaining communications IS permitted. Tones cannot last LONGER than 15 seconds.

I talked to the FCC, and there is NO STANDARD for "selective calling" Almost all selective calling these days use digital formats and they are not considered DIGITAL DATA in the prohibited sense...

ERGO, its legal in my eyes...

623. Re: [APRSSIG:5393] Wiring for Apple 2-E & KPC-3

From: lmkeeran@ilstu.edu (Larry Keeran)
Date: Wed, 20 Dec 1995 12:11:28 -0600
To: aprssig@tapr.org
Message-ID: <v02120d06acfe01d9721c@[138.87.2.109]>
Rendered body type: text/plain

My Apple Service Guide says a "straight cable" for a Apple //e super serial card to modem. You turn the plug in the super serial card to the correct position (modem).

The cable is pin for pin with DB25M on both ends. The pins used are: 1,2,3,4,5,6,7,8,20 and they go to the same pins on the other connector. (Apple Service Part Number 590-0037)

73 Larry K9ORP

>Can someone please provide a wiring diagram to connect an Apple Model 2-E to
>a KPC-3.
>
>Dave

/\/
Larry M. Keeran ISU IS - Data Processing Equip Tech lmkeeran@ilstu.edu
EC McLean Co-Pres CIRC-CIPRUS,Inc-APRSM-APRS k9orp.ampr.org (44.72.126.97)
wireless path: k9orp via ILGRD1 k9orp@wb9uus.ampr.org (44.72.123.97)
\\/\

624. Re: [APRSSIG:5356] Cheap Differential

From: rkramer@cdx.net (Ronald Kramer)
Date: Wed, 20 Dec 1995 18:23:51 GMT
To: aprssig@tapr.org
Message-ID: <30d8530f.40598034@mail.cdx.net>
Rendered body type: text/plain

On Tue, 19 Dec 1995 09:45:01 -0600 (CST), you wrote:
APR wrote:

>On Tue, 19 Dec 1995, Henry Abbott wrote:

>
>> Another stupid question! Why cannot one simply refer to the nearest
>> point of known coordinates and height, determine the
>> instantaneous error between the known coordinates and GPS results and
>> correct for it?

>
>APR REPLY: That is exactly what differentital correction is. The
>differentential engine uses that data to calculate the apparent errors of
>each of the satellites and then BROADCASTS this list of errors in a
>format called RTCM-104. Most GPS receivers will accept that serial data
>stream and use the data to IMPROVE their position SIGNIFICANTLY! But
>these Differential correction engines cost THOUSANDS of dollars and
>require a separate serial data link to the MOBILE.

>
>CHEAP SUBSTITUTE: If you have TWO identical GPS units (using the same
>software algorithms), and the antennas see the same satellites, then
>they SHOULD usually give the same posit. Hook one to your BASE STATION
>APRS and the other in your mobile. Now, since the base station KNOWS
>its exact posit, it simply calculates the offset and subtracts that from
>the mobile's posit on every packet. The mobile is therefore plotted
>to the same accuracy that you know where YOUR BASE station is.
>* YOU can figure out exactly where your basestation is by simply
> averaging your GPS posit over several hours(or days)
>* This only works if you are using the same model GPS for the mobile
> and base...

```
>* It only works if the units are using the SAME SATELLITES
>
>THIS MODE IS CALLED PSEUDO DIFFERENTIAL and has been in the APRS version
>sold via PacComm for commercial applications for over a year...
>
>
>-----
>|DE WB4APR in Annapolis MD.|
>-----
>
Bob can you fill us in on how your APRS DGPS works, I can not find it
in the HELP.TXT file under ALT S....
I see it there ALT S, then GPS, then it shows DGPS
also on the command line I see dgps go to DGPS when
I select it , but nadating happens...

I tried GPS connected by HSP switch, on sepearte com port,
turning GPS off and on etc. but without any documentation
that I can see (maybe I missed it) I can not figure out how
you impliment it.

Also is it possible to run DGPS, GPS, WX, and DF all at the same time
or do I need individual TNC's and computers for each??

tnx in advance.
```

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

625. Altered PK-88 TOne setting

From: Randy Hammock <hammock@tis.telos.com>
Date: Wed, 20 Dec 1995 13:46:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.951220131859.17072A-100000@zentropa>
Rendered body type: text/plain

I know this appeared in the discussion some months back but I didn't save a copy of the solution. The problem is that APRS sets the PK-88 TOne to 2 when it needs to be set to 3. The question is, which of the .TNC files needs to be modified to contain the necessary "TOne 3" command, INITAEA.TNC, RESTORE.TNC or both? Or, should a different TNC be spcified at startup?

Just last night I discovered the altered TOne setting after trying to figure out why my PK-88 had quit working after trying to bring up APRS for the first time this past Saturday. Pretty frustrating after having repaired my radio which had defective crimp in one of the internal wiring harnesses from the factory which caused the audio to come and go (go mostly). Seemed like everything wanted to keep me from running packet.

```
--
Randy Hammock KC6HUR | Randy.Hammock@Telos.com
Telos Information Systems - EDOS | hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400 | Voice: +1 301 507-5904
Greenbelt, Maryland 20770 | FAX: +1 301 507-5892
```

626. Coast Guard beacon receiver designs for differential data?

From: Jim DeLoach <jim.deloach@cellnet.com>
Date: Wed, 20 Dec 1995 10:39:20 -0800
To: aprssig@tapr.org
Message-ID: <199512201845.KAA02245@cellmail.cellnet.com>
Rendered body type: text/plain

Does anybody know of any published low-cost Coast Guard beacon receiver designs in the ham or hobby press? These would be a nice accuracy add-on to all the low-cost GPS users out there.

My understanding is that these transmissions are on long-wave (~140 kHz or so?) using an MSK modulation at 100 baud. Is this right? What do the signal strengths look like, and would this be a particularly difficult design?

Would there be any problem with APRS compatibility?

73s all,

Jim, WU0I

p.s. Comercial units seem to start at ~\$400. and go up into the thousands.
Is there really that much value in these units?

627. RE-Paint Shop Pro graphics program

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Wed, 20 Dec 1995 14:37:51 +0000
To: aprssig@tapr.org
Message-ID: <199512201939.0AA00665@hemisphere.neocomm.net>
Rendered body type: text/plain

Correction I just dnloaded version 311 and it does have the paint and
write on the screen tools.
cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

628. Re: [APRSSIG:5411] Re: Cheap Differential

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Dec 1995 15:03:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951220144812.7792A-100000@greatlakes>
Rendered body type: text/plain

On Wed, 20 Dec 1995, Ronald Kramer wrote:

> Bob can you fill us in on how your APRS DGPS works, I can not find it
> in the HELP.TXT file under ALT S....
> Also is it possible to run DGPS, GPS, WX, and DF all at the same time
> or do I need individual TNC's and computers for each??

WB4APR REPLY COMMENT:

| | |
|---|-------------|
| Only the GPS can share the HSP with the TNC. | See GPS.txt |
| The WX needs its own port at 2400 baud | See WX.txt |
| The DF can share a single port with the TNC (and HSP-GPS) | See DF.txt |

DGPS in APRS, simply means that IF SOMEONE on your local net is
transmitting RTCM-104 via PACKETS then APRS will pass those out the GPS
comm port. If you have wired the OOUTPUT of that COM port to your GPS
differenetal INPUT, then your GPS will be happy.

NOTE: Unless the DGPS station ransmits at least one pacekt every 30
seconds, the data is not worth much. That sure ties up a channel.
If you are going to spend hte \$5,000 for a DGPS station, then send that
data via packet on a DEDICATED CHANNEL. Then all mobiles operate split
and LISTEN on the DGPS channel, and XMT on the APRS channel...

The PSEUDO differential correction where APRS corrects all ON-AIR posits
based on the offset of its OWN attached GPS is only in the commercial
version of APRS being sold by PacComm.

629. Re: [APRSSIG:5412] Altered PK-88 TOne setting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Dec 1995 15:07:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.951220150430.7792B-100000@greatlakes>
Rendered body type: text/plain

> a copy of the solution. The problem is that APRS sets the PK-88 TOne to 2
> when it needs to be set to 3. The question is, which of the .TNC files
> needs to be modified to contain the necessary "TOne 3" command,
> INITAEA.TNC, RESTORE.TNC or both? Or, should a different TNC be spcified

WB4APR REPLY COMMENT:

I cannot fix this problem, until someone sits down and uses a dumb
terminal program to send EACH of the commands to their PK-88 that are in
INITAEA.tnc (or INITTAPR.tnc) and tells me WHICH of my commands is
causing the PK-88 to switch TONES...

Please someone with a PK-88 do this..... Thanks.

I think the Pk-88 is TAPR compatible, so tell APRS you are using a TAPR
TNC, and then APRS will use the COMMANDS in the INITTAPR.TNC file...

630. APRS MIM Telemetry Module

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Dec 1995 16:01:01 -0500 (EST)
To: aprssig@tapr.org
Cc: Asst Prof Carl E Wick <wick@guam.nadn.navy.mil>, clement@guam.nadn.navy.mil
Message-ID: <Pine.SUN.3.91.951220150757.7792C-100000@greatlakes>
Rendered body type: text/plain

The Micro Interface Module (MIM) is a complete telemetry and packet transmitter on a chip. It can be considered to be the TRANSMIT side of a TNC which sends out the following packets on a user defined schedule:

- 1) A FIXED Beacon text
- 2) A telemetry packet with 5 analog values and 8 individual BIT values
- 3) A position packet if a GPS card is attached
- 4) An optional CW ID.

We just sent out the art work and should have a handful of MIM cards available by the beginning of January. Here's what we know so far:

**** PRELIMINARY INFO ONLY **** SUBJECT TO CHANGE ****

SIZE: 1.5 inch by 3.25 by 0.5 inches (prototype)
Much smaller in production using surface mount...

| | | | |
|---------|----------------------|----------|-----------------------|
| INPUTS: | Five Analog | OUTPUTS: | AX.25 packets (audio) |
| | Eight BIT inputs | | PTT |
| | Vin 8 to 40v (15 Ma) | | 5 volts regulated |
| | RS-232 (NMEA) in | | RS-232 out |
| | Rcv DCD input | | |

FIELD PROGRAMMABLE via serial port:

- * Callsign & SSID
- * UNPROTO path
- * BEACON Text
- * BEACON period 5 secs to 21 minutes
- * POSIT period ditto
- * TELEMETRY period ditto

FUTURE OPTIONS: * LOW POWER Sleep mode for extended timing periods
Less than 0.015 ma
* Extended timing periods
* Timed OUTPUT pin for powering up GPS

COST: \$89 intro price plus shipping and handling
Quantity discounts and OEM licensing will be available

***** PERLIMINARY INFO ONLY ***** SUBJECT TO CHANGE! **** hi hi

631. subscribe

From: KE4PNJ@aol.com
Date: Wed, 20 Dec 1995 16:05:33 -0500
To: aprssig@tapr.org
Message-ID: <951220160230_59615390@mail06.mail.aol.com>
Rendered body type: text/plain

subscribe

632. Re: [APRSSIG:5406] Re: Error EI

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Wed, 20 Dec 95 13:07:52 -0800
To: aprssig@tapr.org
Message-ID: <BD54D83001B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

On 12/20/95 Jim DeLoach said:

<(1)
<I presume the precision provided by the GPS receiver is DYNAMIC, and changes
<as a function of which birds are in view, how many obstructions are around
<me as I drive around, etc. Will the GPS receivers' "HDOP" reflect these
<factors and change accordingly?

You are correct that GPS accuracy is dynamic, dependent on a lot of factors. HDOP, however, is a measure of dilution of precision due to less than perfect satellite geometry which it knows based on the satellites used in the navigation solution. This value does vary with

time as different satellites of the GPS constellation come into view. It does not, however, reflect degradation of accuracy due to Selective Availability or ionospheric delay factors.

<(2)

<Is it true that the errors will tend to be evenly distributed between the
<x-axis (east-west) and y-axis (north-south)? Is it ever the case that the
<x-axis error is much less than the y-axis (or visa versa), and would the GPS
<receiver be able to predict this?

I have not seen anything in the literature as yet that gives a preferential bias towards North-South accuracy vs. East-West accuracy. My experience in plotting GPS positioning wandering at a fixed location over a period of time (say 24 hrs) does not appear to show any directional bias. This is a simple enough experiment you may want to try yourself, with or without differential correction.

<(3)

<I am investigating both DCI and the Coast Guard beacon receivers for
<differential correction information. Why do you say the Coast Guard
<correction information provides accuracies "within tens of meters" while DCI
<can get into the meter range? Does this have to do with how far one is from
<the reference receiver? What if the reference receiver is close?

The distance from the reference station is a factor since errors such as ionospheric propagation delays can be different at your location compared to the reference location and therefore would not be completely removed or eliminated as a common mode error source. This same logic applies when I commented that DGPS services such as DCI or Accpoint have errors within several meters or less, depending on the type of service purchased, due primarily to its local use in a metropolitan area. Since these differentially corrected signals are encoded on a subcarrier of a local FM station, its inherent range is limited to principally line of sight, more or less. The VLF beacon stations, on the other hand, can travel larger distances over the surface of the earth (compared to local FM) which is due primarily to the propagation characteristics of the low frequency signal. Using differential corrections of this type several hundred miles away on land is less accurate than, say entering a harbor where the Coast Guard DGPS transmitter may only be a few miles away.

73's de Mike KA6SPT

633. Re: [APRSSIG:4640] Ultimeter II

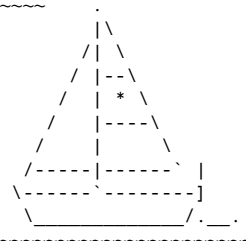
From: g4bki@tnos.paccomm.com
Date: Wed, 20 Dec 95 15:06:40 -0500
To: aprssig@tapr.org
Message-ID: <3@tnos.paccomm.com>
Rendered body type: text/plain

Message-Id: 3_tnos
From: g4bki@w1bel
To: aprssig@tapr.org

Well, you seem to have all the right settings, Tom. I referred to my application note and you have nothing wrong in the set-up. Maybe APRS in latest form has a problem? I will test and see!

~~~~~  
Paul Evans, W4/G4BKI  
G4BKI@paccomm.com  
PacComm Packet Radio Systems, Tampa, FL USA  
Views are personal, not those of employer  
In contests There's no metres like 40 metres!

Don't surf the net, SAIL it!  
Captain of S/V "Spindrift", Dunedin, FL.  
Catalina 36: Tall rig (58'), Winged Keel (4' 2")  
Full batten main, Boston Whaler dinghy, 7hp outboard



## 634. Re: [APRSSIG:5404] Re: GPS and missiles

From: ke4eer@ro.com (William Nolle)  
Date: Wed, 20 Dec 1995 15:40:47  
To: aprssig@tapr.org  
Message-ID: <199512202247.QAA01588@sh1.ro.com>  
Rendered body type: text/plain

OK GERRY I REMEMBER A WHILE BACK YOU WHERE COMPLAINING ABT  
ITEMS POSTED THAT WHERE OFF TOPIC FOR THE SIG. WHAT DO YOU  
CALL THIS VERY LENGHTY STORY ABOUT GARBAGE NOTHING TO DO  
WITH APRS. Right now the biggest part of sig messages are either the Peet  
brothers wx station or the accuracy of GPS. Although getting sick of the WX  
station problems they are related. Now the missiles and now atomic bombs have  
nothing to do with APRS. There must be a sig on internet someplace where  
this would all be very welcome. PLEASE TAKE YOUR GARBAGE  
ELSEWHERE. THANK YOU. If need be to get rid of having to read all this  
junk i will unsubscribe from the sig.

Bill KE4EER

-----

>Jim DeLoach sez:

>>

>> Look folks, the first nuclear bomb to go off in the United States will  
>> probably ride in on a donkey cart!

>

>See Tom Clancy's "The Sum of All Fears"

>

>> The real issue is that our government needs to realize that the GPS system  
>> is both a military AND a commercial resource crucial to our nations well  
>> being. SA is merely spawning a differential-correction industry (companies  
>> like DCI, and organizations like the Coast Guard) that aren't really  
>> necessary, and I doubt it is contributing much to our security. My guess is  
>> that should ICBMs get launched, GPS would totally shut off or otherwise make  
>> itself useless to hostile forces.

>

>More than likely, if we have a sufficient launch warning, we'll shut down a  
>lot more than just the GPS birds, to diminish the flash-damage from an  
>airburst. Generally, if the launch vehicle is ballistic, I'm not too worried  
>about a GPS-guided terminal phase. I'm just plain worried. An airburst over  
>Houston would complicate my life needlessly, although I doubt a minor power  
>would target College Station and complicate it significantly...

>

>The various Differential sources are, in fact, needed to improve position data  
>over that provided by Standard Positioning Service for precision applications.  
>Surveying, which uses L1 and L2, requires use of a base station and either  
>real time (kinematic) updates or post-processing to achieve sub-cm precision.  
>Similarly, the Coast Guard and Corps of Engineers have been experimenting with  
>RTK navigation-aided ship handling in restricted channels. Neither of these,  
>nor a host of other applications can be achieved using SPS or Precision  
>Position Service natively. And "Why not," you ask? Simple answer. The  
>satellite precise ephemeris sent by the Space Vehicles (I sure hope W3IWI  
>isn't looking;-) is accurate enough to place the location of the satellite  
>within (about) a 10 meter spheroid at any given time. Assuming, for the  
>nonce, that Selective Availability is OFF, and minimizing errors in the  
>various onboard clocks with regard to the master reference clock, you have a  
>potential pseudorange error, off the top, of about 17 meters (2-sigma).  
>Signals travelling through the ionosphere and stratosphere are subject to some  
>induced delay. While this is modelled, and the model data are updated  
>periodically in the Broadcast Message, the fact is the model is not perfect,  
>and compensation based on it is prone to some error.

>

>Use of several satellites to determine position, and use of a Least Squares  
>Estimator to compare various solutions, as well as smoothing based on carrier  
>phase and code phase data allow some increase accuracy of the solution. SPS  
>uses a shorter sequence of Pseudo Random Numbers in their system than PPS.  
>This, too, contributes to less precision in determining a fix. Oh... And I  
>forgot to mention multipath. This bugaboo can nail both SPS and PPS systems.  
>On our surveying gear, we use a .7 meter (diameter) groundplane to minimize  
>the effect of reflections and multipath, and attempt to set the antenna as  
>high as possible (a couple of meters) to reduce the effects of local  
>reflections. Trimble recommends, as well, that vehicles be restricted to no  
>closer than 100 meters when a precision point is being taken. On a good day,  
>using L1 only without L2 code or carrier phase correlation, discounting most  
>of the ionospheric delay and discounting multipath, you can expect about a 10  
>meter diameter ellipsoid of error for SPS and about a 3 meter ellipsoid for  
>PPS.

>

>Real time correction can occur at several levels. For discussion, I'll talk  
>about the two I spend most of my time with: RTCM ("Mapping Grade") correction

>was originally developed for harbor navigation, with aviation industry input,  
>and will improve SPS and PPS by about an order of magnitude (100 meter [a BAD  
>day] -> 10 meter; 10 meter -> 1 meter or so...) and RTK, which most of the  
>cheap GPS receivers cannot handle, which is able to allow significant submeter  
>resolution (we can usually reproduce 2 cm error ellipsoids around here).  
>  
>RTCM (Radio Technical Committee for Maritime Operations) corrections are based  
>on using a base station at a known point, and assume, typically, an  
>L1/SPS-grade receiver. The receiver compares the pseudorange (apparent range  
>of the receiver to the spacecraft) based on timing signals with its  
>calculation of the spacecraft's anticipated pseudorange based on the broadcast  
>ephemeris (sent by the individual birds), and issues a set of corrections. It  
>also sends timing (Epoch) data and satellite health data so the receivers can  
>error out a satellite if it's unhealthy. This, of course, demands that the  
>base station and the roving station receiving the corrections be looking at  
>the same satellites. If they're not, then only limited correction can occur.  
>FURTHER, as you get farther from the base station, the precision of the  
>correction diminishes. Thus, a base station 350 km away may not give much  
>improvement over an autonomous position fix.  
>  
>> On a related note, isn't it about time GPS users who are not US tax payers  
>> contributed to its upkeep? Is this already happening? How about we shut  
>> the birds down from time to time over other parts of the world till some  
>> other well to do nations pony-up?  
>  
>No. We have national interests ("military") in a lot of those areas. If we  
>turn off SPS their PLGRs stop working, too. And, it'd be pretty irresponsible  
>to turn off a mode we turned on simply to try and strongarm some change from  
>the rest of the world. What we're doing, instead, is gaining access to the  
>GLOSNA system the Russians have launched and maintain, and are continuing to  
>do so at no cost to the world. Newer receivers are starting to come out that  
>are capable of receiving both systems, and either select the best fix, or  
>integrate the two. So, tell me... you're flying your light twin over Europe,  
>with your Garmin GPS-150 onboard, meeting the applicable FARs for enroute  
>navigation, and complying with the appropriate ATC regulations for the  
>airspace you're in (they allow enroute navigation by GPS too) when the lights  
>go out... Once you've started using it, it's no fun to have to go back to  
>VORs. And if you're in IFR conditions, and your situation changes like that,  
>you're suddenly in a significantly increased-workload environment. That's no  
>fun.  
>  
>No, thank you, I don't think strong-arm tactics are appropriate here.  
>  
>Gerry N5JXS  
>n5jxs@tamu.edu  
>

---

### 635. Map of the Prescott, Az. Area

From: "Alan K. Unangst" <alanwc7r@primenet.com>  
Date: Wed, 20 Dec 1995 14:59:46 -0700  
To: aprssig@tapr.org  
Message-ID: <199512202159.0AA19220@usr1.primenet.com>  
Rendered body type: text/plain

I have made a map of the Prescott, Az. / Yavapai Co. area, and rather than  
clutter up the TAPR site I will send it directly to anyone who want it.  
Drop me E-Mail, DIRECTLY, and I'll forward it to you (Directly)

E-Mail is alanwc7r@primenet.com

Comments on the map will, also, be welcomed!

73,

Alan, WC7R  
Alan K. Unangst

---

### 636. Re: [APRSSIG:5415] Re: Cheap Differential

From: rkramer@cdx.net (Ronald Kramer)  
Date: Wed, 20 Dec 1995 22:10:56 GMT  
To: aprssig@tapr.org  
Message-ID: <30d888ad.54326358@mail.cdx.net>  
Rendered body type: text/plain

On Wed, 20 Dec 1995 14:07:45 -0600 (CST), you wrote:

>On Wed, 20 Dec 1995, Ronald Kramer wrote:  
>

>> Bob can you fill us in on how your APRS DGPS works, I can not find it

```
>> in the HELP.TXT file under ALT S...
>> Also is it possible to run DGPS, GPS, WX, and DF all at the same time
>> or do I need individual TNC's and computers for each??
>
>WB4APR REPLY COMMENT:
>
>Only the GPS can share the HSP with the TNC.           See GPS.txt
>The WX needs its own port at 2400 baud                 See WX.txt
>The DF can share a single port with the TNC (and HSP-GPS) See DF.txt
>
>DGPS in APRS, simply means that IF SOMEONE on your local net is
>transmitting RTCM-104 via PACKETS then APRS will pass those out the GPS
>comm port. If you have wired the OOUTPUT of that COM port to your GPS
>differenential INPUT, then your GPS will be happy.
>
>NOTE: Unless the DGPS station ransmits at least one pacekt every 30
>seconds, the data is not worth much. THAT sure ties up a channel.
>If you are going to spend hte $5,000 for a DGPS station, then send that
>data via packet on a DEDICATED CHANNEL. THEN all mobiles operate split
>and LISTEN on the DGPS channel, and XMT on the APRS channel...
>
>The PSEUDO differential correction where APRS corrects all ON-AIR posits
>based on the offset of its OWN attached GPS is only in the commercial
>version of APRS being sold by PacComm.
>
I can understand that ok, could you please send me down
about 10 lines of RTCM-104 code as seen by APRS, I would
like to see if I can generate similar code to feed in on the
rs232 port from another computer that has a fixed GPS
and a known location to see if I can simulate a DGPS station
in my Hamshack. I have a few Raytheon 900 GPS rx's
that I would like to try out for this application.
Too many toy's not enough time on my hands....
tnx in advance
```

Regards, Ron ... 73 de Ron  
Internet: rkramer@cdx.net (Ron Kramer)  
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

### 637. U-2000 info?

```
From: Dick Mead <mead@skat.usc.edu>
Date: Wed, 20 Dec 95 15:26:53 GMT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.819502013.mead@hamal.usc.edu>
Rendered body type: text/plain

I'd also like to see the modem mode commands, and an explanation of the
output of each mode. I would like to know what's where in the data stream
and the format/value range.
```

### 638. FS: Cheap 2M trackers ???

```
From: mark@tetherless.com (Mark Oppenheim)
Date: Wed, 20 Dec 1995 16:45:56 -0800
To: aprssig@tapr.org
Message-ID: <199512210045.QAA15297@gorgor.pa.tetherless.com>
Rendered body type: text/plain
```

I saw the following on rec.radio.swap

Being a "Motorola guy", I don't know anything about these units, but if they'll tune to 2M, it may be a cheap, good source of mobile trackers. Anyone familiar with these radios?

Mark

-----

```
Subject: FS: GE MPX HT'S
Date: 16 Dec 1995 05:33:26 GMT
From: "swcomsvc@netplus.net" <swcomsvc@netplus.net>
Organization: Internet access plus
Newsgroups: rec.radio.swap
```

HAVE 50 PLUS UNITS VHF 5 WATT WITHOUT CHARGERS AND BATTERIES. WILL SELL FOR \$15 EACH.

-----

### 639. Re: [APRSSIG:5312] License Class/Gate

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Thu, 21 Dec 1995 01:46:19 +0000 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951221014529.8426C-100000@pinegov>  
Rendered body type: text/plain

On Mon, 18 Dec 1995, Barry Leonard wrote:

> Hi there, and happy holidays!  
> Would somebody refresh my memory if a certain class of Ham license is  
> required for a station to be a GATE?  
>  
> Thanks,  
> Barry Leonard  
> jleonard@tbcnet.com  
> N9VJQ  
>  
>  
I presume you mean an HF GATE, in which case the answer is yes....General  
Class or higher for any HF use other than 10 meters.....hope that answers  
the question....

73 de Kevin KD4UYR

---

### 640. Re: U2000 and APRS

From: N4QEA <moyers@ibm.net>  
Date: Wed, 20 Dec 1995 22:12:28 EST  
To: aprssig@tapr.org  
Message-ID: <199512210309.DAA13301@smtp-gw01.ny.us.ibm.net>  
Rendered body type: text/plain

I have been watching the sig on the problems and have been trying to  
work this out since back in version 74d. I have attempted to run APRS  
and the U2000 from plain stripped dos, from DOS/Desqview, and from  
inside an OS\2 Dos window. To date my best luck has been from within  
OS\2. The last experiment I ran seemed to be the most productive at  
finding a cause. From what Bob told me I decided that APRS buffers  
all comport data anytime the keyboard is active. I had also observed  
that the hangs between the U2000 and APRS occurred immediatly after  
returning APRS back to talking to the comm ports. Infact it looked  
like APRS was attempting to talk to both com ports at the same time.

In my experiment I turned the radio off still leaving the TNC and U2000  
active, and then entered along comment message and waited a couple of  
seconds before sending. This time NO HANGS, A quick comm-buffer  
overrun message but NO HANGS. This indicated that what was happening  
was that the buffers inside APRS were overfilling with TNC data and  
were not able to dump before APRS toggled the U2000 for data.

So, I knocked APRS down in the DOS window and opened back up in its own  
window and tested it again (same test). This the system hung. So  
after some minor tweaking of timing PARMs for the APRS DOS WINDOW I  
have this working. Now I'm seeing some corrupted data from the TNC  
every so often but nothing major.

I have suggested to BOB that he Hardware flow control the tnc anytime  
he needs to stop data from it as well as when it toggles for the u2000  
port, instead of buffering the data. The TNC's have built in buffers  
just for this and may help.

73

John Moyers  
ARS; N4QEA  
Packet; N4QEA @ N4QEA.#METN.TN.USA.NA  
Inet; moyers@ibm.net  
Cruise Missile; 36,02.89N/83,43.35W

---

### 641. Re: [APRSSIG:5374] Quick Questiony

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Wed, 20 Dec 1995 21:28:54 -0600  
To: aprssig@tapr.org  
Message-ID: <9512210328.AA01999@omnifest.uwm.edu>  
Rendered body type: text/plain

[Empty message body]

## 642. Re: [APRSSIG:5421] Re: GPS and missiles

From: mwalker@interlog.com (Mike Walker)  
Date: Wed, 20 Dec 95 10:35:59 EST  
To: aprssig@tapr.org  
Message-ID: <199512210336.WAA22126@gold.interlog.com>  
Rendered body type: text/plain

On Wed, 20 Dec 1995 16:10:35 -0600 (CST) you wrote:

>OK GERRY I REMEMBER A WHILE BACK YOU WHERE COMPLAINING ABT  
>ITEMS POSTED THAT WHERE OFF TOPIC FOR THE SIG. WHAT DO YOU  
>CALL THIS VERY LENGHTY STORY ABOUT GARBAGE NOTHING TO DO  
>WITH APRS. Right now the biggest part of sig messages are either the Peet  
>brothers wx station or the accuracy of GPS. Although getting sick of the WX  
>station problems they are related. Now the missiles and now atomic bombs have  
>nothing to do with APRS. There must be a sig on internet someplace where  
>this would all be very welcome. PLEASE TAKE YOUR GARBAGE  
>ELSEWHERE. THANK YOU. If need be to get rid of having to read all this  
>junk i will unsubscribe from the sig.  
>  
>Bill KE4EER  
>-----  
>

I disagree...

The technical discussion allows me to further understand how GPS functions.

It is discussions like this that help to design and improve things. Hams used to do this all the time before they became appliance operators.

Merry Christmas...mike

Mike Walker  
127 High St. W.  
Mississauga, ON  
L5H 1K4

mwalker@interlog.com  
rf: va3mw@va3bbs

---

## 643. Re: [APRSSIG:5387] Re: Error Ellips

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Wed, 20 Dec 1995 21:38:37 -0600  
To: aprssig@tapr.org  
Message-ID: <9512210338.AA03068@omnifest.uwm.edu>  
Rendered body type: text/plain

Let me see if I have this right....

One branch of the government PURPOSEFULLY induces GPS error  
and then

The Coast Guard beacons the corrections FREE to those that have  
a beacon reciever.

Did I understand that correctly???? 'Cause it SURE doesn't make a whole  
lot of sense.

CUL & 73 de Dave

=====

David W. Barrow III \* Amateur Radio:N9UNR \* Internet:dbarrow@omnifest.uwm.edu  
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603  
Ma Bell:(414) 375-2667 \* Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM  
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham  
=====

---

## 644. Re: [APRSSIG:5416] Re: Altered PK-88 TOne setting

From: Randy Hammock <hammock@tis.telos.com>  
Date: Wed, 20 Dec 1995 23:04:48 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SOL.3.91.951220225921.19115A@zentropa>  
Rendered body type: text/plain

On Wed, 20 Dec 1995, Bob Bruninga wrote:

> > a copy of the solution. The problem is that APRS sets the PK-88 TOne to 2  
> > when it needs to be set to 3. The question is, which of the .TNC files  
> > needs to be modified to contain the necessary "TOne 3" command,  
> > INITAEA.TNC, RESTORE.TNC or both? Or, should a different TNC be spcified  
>  
> WB4APR REPLY COMMENT:  
>  
> I cannot fix this problem, until someone sits down and uses a dumb  
> terminal program to send EACH of the commands to their PK-88 that are in

> INITAEA.tnc (or INITTAPR.tnc) and tells me WHICH of my commands is  
> causing the PK-88 to switch TONES...  
>  
> Please someone with a PK-88 do this..... Thanks.

Bob, None of the commands in the INITAEA.TNC file will cause the problem, I ran them all through the PK-88; however, if at any time a Vhf OFF is sent then a Vhf ON is sent, the PK-88 will change to TOne 2. Vhf OFF causes the PK-88 to set TOne 1. The interesting thing is that if Vhf is already ON, sending Vhf ON again does not change the TOne setting from 3 to 2. This only happens when Vhf is switching from OFF to ON.

Hope this help.

--

Randy Hammock KC6HUR	Randy.Hammock@Telos.com
Telos Information Systems - EDOS	hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400	Voice: +1 301 507-5904
Greenbelt, Maryland 20770	FAX: +1 301 507-5892

---

## 645. GPS Questions

From: kc5ejk@onramp.net (Robert Winingham)  
Date: Wed, 20 Dec 1995 22:14:53 -0600  
To: aprssig@tapr.org  
Message-ID: <v02130500acfe8e0ccf3e@[199.1.11.131]>  
Rendered body type: text/plain

A good news group to join to learn more about GPS is

Newsgroup: sci.geo.satellite-nav  
Just a few of todays topics.

- \* GPS Beginner's Questions
- \* DGPS correction signal protocol -
- \* NMEA / UTM Question -
- \* re: suction cup mounting of GPS antenna in airplanes and automobiles -
- \* DELORME MapExpert and GPS???

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

## 646. Re: [APRSSIG:5423] Re: Cheap Differential

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 20 Dec 1995 23:11:31 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <199512210511.XAA00121@solar.cs.tamu.edu>  
Rendered body type: text/plain

Ronald Kramer sez:

>  
> I can understand that ok, could you please send me down  
> about 10 lines of RTCM-104 code as seen by APRS, I would  
> like to see if I can generate similar code to feed in on the  
> rs232 port from another computer that has a fixed GPS  
> and a known location to see if I can simulate a DGPS station  
> in my Hamshack. I have a few Raytheon 900 GPS rx's  
> that I would like to try out for this application.  
> Too many toy's not enough time on my hands....  
> tnx in advance

I don't have anything handy here, but should be able to send you something tomorrow, IF it's needed. I'd recommend, since RTCM-SC-104 sentences are not, strictly speaking, ascii (excluding the NMEA-similar new stuff) that you grab a couple of the back issues of the institute ofNavigation, and peruse it. I'm doing something similar for a research application, using the Motorola OnCore engines.

Tell your receiver to go into a position hold mode, and feed it a reference point. Now, ask it to give you the pseudorange correction and pseudorange rate correction on an epoch-by-epoch basis. Barring that, do the ephemeris calculations (SGP3, I believe), and compare the instantaneous results with the receiver-calculated pseudorange and range rate calculations. On a satellite-by-satellite basis, extract the deltas between the calculated numbers and the pseudorange and rate data determined via timing by the receiver.

The format's not too bad. The matrix solutions are time consuming.

#### 647. Re: [APRSSIG:5421] Re: GPS and missiles

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 20 Dec 1995 23:16:55 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <199512210516.XAA00186@solar.cs.tamu.edu>  
Rendered body type: text/plain

William Nolle sez:

>  
> OK GERRY I REMEMBER A WHILE BACK YOU WERE COMPLAINING ABT  
> ITEMS POSTED THAT WERE OFF TOPIC FOR THE SIG. WHAT DO YOU  
> CALL THIS VERY LENGTHY STORY ABOUT GARBAGE NOTHING TO DO  
> WITH APRS. Right now the biggest part of sig messages are either the Peet  
> brothers wx station or the accuracy of GPS. Although getting sick of the WX  
> station problems they are related. Now the missiles and now atomic bombs have  
> nothing to do with APRS. There must be a sig on internet someplace where  
> this would all be very welcome. PLEASE TAKE YOUR GARBAGE  
> ELSEWHERE. THANK YOU. If need be to get rid of having to read all this  
> junk i will unsubscribe from the sig.

Bill,

I'm real sorry you didn't like the missive. It's \*not\* junk, but it was long.  
It \*is\* GPS related, and as there has been some interest in enhancing accuracy  
and precision using DGPS, I did not feel it too far out of line.

You've done quite a bit of good work lately with the maps of Alabama. I think  
what I have to add is on the technical end. I have been pretty busy, and hve  
not done much map-making. I have been doing some DGPS making, some research,  
some publications and scientific presentations. And going to school.

I'm sorry if you were offended by a discourse on how something works. If  
that's not good enough, Goodbye.

Gerry

---

#### 648. Re: [APRSSIG:5430] Re: Error Ellips

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Wed, 20 Dec 1995 23:24:18 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <199512210524.XAA00296@solar.cs.tamu.edu>  
Rendered body type: text/plain

David W. Barrow III sez:

>  
> Let me see if I have this right....  
> One branch of the government PURPOSEFULLY induces GPS error  
> and then  
> The Coast Guard beacons the corrections FREE to those that have  
> a beacon reciever.  
>  
> Did I understand that correctly???? 'Cause it SURE doesn't make a whole  
> lot of sense.

Depends on the mission. DoD is interested in providing C/A code to allow  
initial timing lock for PPS (P(Y)code) acquisition, and incidentally letting  
the civilians use C/A code in the interim. USCG is interested in general and  
harbor maritime navigation. They're interested in relatively precise  
locations around their harbors with allowable dilution on the high seas.

DoD is interested in confusing the terminal phase navigation of ballistic  
entry vehicles and of cruise missiles headed for US forces and/or troops. USCG  
has more interest in using the system to get up the Houston Ship Channel  
safely. And the last time a ship was ballistic in the Houston Ship Channel  
area was when we blew up the fertilizer ship in Texas City in 1947! :-)

73, gerry  
n5jxs@tamu.edu

---

#### 649. Re: [APRSSIG:5429] Re: GPS and missiles

From: Chuck Grant <grant@aretha.llnl.gov>  
Date: Wed, 20 Dec 1995 21:26:48 -0800  
To: aprssig@tapr.org  
Message-ID: <199512210526.VAA28735@aretha.llnl.gov>  
Rendered body type: text/plain



>  
> I disagree...  
> The technical discussion allows me to further understand how GPS functions.  
>  
> It is discussions like this that help to design and improve things. Hams used  
> to do this all the time before they became appliance operators.  
>  
> Merry Christmas...mike  
>  
> Mike Walker mwalker@interlog.com

The demise of ham radio is Irrelevant: This is not a general ham radio mailing list, not a general system design mailing list. It is specific to APRS.

Your reasoning is not far from "I find it interesting, so therefore it is appropriate to discuss in all contexts." The interest or educational value is not the question. I could give you tips on computer architecture too (or keyboard ergonomics, or antenna design, or direction finding, or vhf propagation, or software engineering, or computer graphics, or ...), which might further your understanding of things remotely related to APRS. But this is clearly not the place to conduct extended discussions on remotely related subjects.

So if you are really interested in learning more about GPS, go find a GPS mailing list/news group/discussion, or if there isn't one (I find that unlikely) start your own. All this missile crap and politics has no business in an APRS mailing list. Just because something is remotely related to APRS does not mean that this is the best place to discuss it.

This list has about the lowest signal to noise ratio of any list I have ever read. Let's not try to make it worse.

Chuck KE6CIL

---

## 650. GPS ALTITUDE AND ETC

From: KD4EMI@aol.com  
Date: Thu, 21 Dec 1995 01:20:28 -0500  
To: aprssig@tapr.org  
Message-ID: <951220211636\_95858778@mail06.mail.aol.com>  
Rendered body type: text/plain

Folks I want to take a sec and remind everyone that  
I started this thread with

:MY GARMIN 45 Doesnt give accurate altitude...etc etc"

WE have digressed to Tom Clancy and Missiles etc ad nauseum.  
ALL I wanted to know was why the GPS didnt work as well as my  
friends' GPS. This has been answered. Although I enjoy elsipsoids,  
sinusoidal nodes, mutipath, and now ICBM topics...I think we got  
off the track and have permutated into hypothetical gobblygook.

Noting this I thought I would clear the air and discuss the recent meteor  
event, and a story that should make a few of you laugh.  
I recently purchased a ICOM 706. It's in the car. I'd not really payed much  
attention to the meteor scatter event. NOW since I have ssb and CW on  
2 meters the thought has crossed my mind to play with it. NOW THE  
FUNNY PART

I was on a date last weekend and we were parked in my car, and I was  
getting a little "brave" with my new date. (Im keeping it clean).  
I noticed a flash in the sky and saw an ionization event (a shooting star).  
Then a few more. I told my date about how we use that ion trail to bounce  
signals off of and make distant contacts. (SHE YAWNED)  
Then I told her that I could take advantage of the event and try to fire  
up the 2m CW rig and make a contact. (YAWN AGAIN)  
She didnt seem too interested.

So I took her home.. Didnt get any (Dx) either...  
Warning to the wise...

Either

A: Get a girl who appreciates ionization events  
or

B: Stay home if you want to work DX

She wasnt my type anyway :)

Let's enjoy the sig and move along now...thanks for all the responses  
on the gps situation (I only hope that this little ditty doesnt start

some mutant thread again)

73 Mike KD4EMI@AOL.COM

---

## 651. Re: [APRSSIG:5434] Re: GPS and missiles

From: bob@cyberg8t.com (Robert James Harris)  
Date: Wed, 20 Dec 1995 22:35:09 -0800  
To: aprssig@tapr.org  
Message-ID: <199512210635.WAA26477@key.cyberg8t.com>  
Rendered body type: text/plain

Gerry - Dittos

I subscribe to this mailing list to LEARN and technical discussions about GPS, WX or whatever hamish stuff intrigues the hell out of me. At 50, I am not too old to learn WHY instead of snivelling about how.

>

---

## 652. Re: [APRSSIG:5375] Re: GPS and missiles

From: sparkfel@primenet.com (Mark Fellhauer)  
Date: Wed, 20 Dec 1995 23:44:01 -0700 (MST)  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <199512210644.XAA19989@usr4.primenet.com>  
Rendered body type: text/plain

At 03:36 PM 12/19/95 -0600, gordon\_hardman wrote:

>In response to the comment on velocity limits, commercial vendors (in  
>the US at least) of SPS receivers are obliged by the US government to  
>limit either velocity or altitude useability of their receivers in  
>order to preclude their use in guided munitions.  
>

Ahh, but current cruise missiles fly low & slow.

Mark Fellhauer  
KC7BX5  
sparkfel@primenet.com

---

## 653. Re: [APRSSIG:5436] Re: GPS and missiles

From: sparkfel@primenet.com (Mark Fellhauer)  
Date: Wed, 20 Dec 1995 23:56:23 -0700 (MST)  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <199512210656.XAA28951@usr1.primenet.com>  
Rendered body type: text/plain

At 11:43 PM 12/20/95 -0600, Chuck Grant wrote:

>So if you are really interested in learning more about GPS, go find a GPS  
>mailing list/news group/discussion, or if there isn't one (I find that  
>unlikely) start your own. All this missile crap and politics has no business  
>in an APRS mailing list. Just because something is remotely related to APRS  
>does not mean that this is the best place to discuss it.  
>

>This list has about the lowest signal to noise ratio of any list I have  
>ever read. Let's not try to make it worse.  
>

>Chuck KE6CIL  
>

I hate to be argumentative, but couldn't you practice a little of what you preach?

What does a personal gripe have to do with APRS? Couldn't you have sent this via private e-mail? The topic at hand is properly noted on the SUBJECT line. If you do not care to read about "GPS and Missiles" then skip past articles labeled with this subject line. It's that simple. Sooner or later the people engaged in this digression will once again return to topics more akin to APRS.

And if you think this list has the lowest signal to noise ratio, why do you stay?

Mark Fellhauer  
KC7BX5  
sparkfel@primenet.com

## 654. Map Making

From: Dan <ke6lof@inreach.inreach.com>  
Date: Wed, 20 Dec 1995 23:05:03 -0800  
To: aprssig@tapr.org  
Message-ID: <199512210705.XAA08693@inreach.com>  
Rendered body type: text/plain

Hello All,

I am Dan (ke6lof) in Stockton Ca. I've been operating APRS for nearly a year and a half. Now I feel it's my turn to contribute to the community as much as I can. I am looking for help in making maps for my local area. So far I have downloaded the maps from the USGS and have gzip and all the utilities needed for the job. All I'm looking for now is the proper way to put all this together and apply it to APRS.

Any help will be graciously accepted.

Dan Muters Ke6lof  
ke6lof@inreach.com  
ke6lof@w6sf.#nocal.ca.na  
ip 44.2.1.147

---

## 655. APRS Cellular interface!

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 21 Dec 1995 02:49:32 -0500 (EST)  
To: aprssig@tapr.org  
Cc: gps@humec.ksu.edu, Asst Prof Carl E Wick <wick@guam.nadn.navy.mil>, clement@guam.nadn.navy.mil  
Message-ID: <Pine.SUN.3.91.951221024250.11647A-100000@greatlakes>  
Rendered body type: text/plain

CELLULAR AUTOMATIC POSITION REPORTING SYSTEM (APRS)

\*\*\*\*\* PRELIMINARY ANNOUNCEMENT \*\*\*\*\*

With the newly developed Cellular APRS Transmitter (CAT), any vehicle or individual with a cellular phone and a GPS can report his position to home base nationwide wherever cellular service is available. At the home base, the position report is automatically displayed on a map display on the dispatcher's computer or networked to other PC's throughout the company. In addition to the position, a status message selected from literally dozens of pre-arranged messages can be sent. The cost of each position/status report is the same as the minimum 1 minute rate with your cellular carrier. Today this is typically less than 50 cents.

The CAT is about the size of a cigarette pack and interfaces your GPS to \*ANY\* cellular phone. It does not require the expensive data interface that is available for only the top-end phones. To avoid unnecessary phone charges, and report the most meaningful positions, a position report is only sent when the driver/operator presses a button. The CAT has a number of status switches which can be set to indicate any number of pre-arranged messages. The messages are field programmable. Optionally, several channels of telemetry from the vehicle can also be included in the message.

The Dispatcher Interface (DI) is a box that connects the APRS display computer to the phone line to receive the incoming mobile reports. Using the DI, APRS can maintain a track on up to 80 or more mobiles depending on their reporting rate. Maps anywhere in the country are available at various levels of detail. Since the primary application is the interstate traveler, the basic system comes with maps of the entire USA with all major roads and interstates.

The cost of the CAT's are expected to be around \$100 each and the Dispatcher Interface around \$220. Product availability this spring. Prices are only estimates pending production costs...

For more information, contact APRS Inc  
115 Old Farm Ct  
Glen Burnie, MD 21060

---

## 656. Have Fun

From: ke4eer@ro.com (William Nolle)  
Date: Thu, 21 Dec 1995 05:15:45  
To: aprssig@tapr.org  
Message-ID: <199512211222.GAA23849@sh1.ro.com>  
Rendered body type: text/plain

Gerry i'm taking you advice and am UNSUBSCRIBING to the APRS sig for the simple reason that just now out of 19 messages received 2 were actually related to APRS and i believe you are the surst of the lot. You where the one that made statements to me to keep things on topic and to keep the messages short because some users paid for having to download these messages. Well this must be just for other people and not you. We have all learned how well versed you are on all subjects, but this subject is getting out of hand. There are many other places on the internet better suited for discussions like what's going on here. I bet there are even groups on the net where you could find out how to build a cruise missile, but still don't see where this is related to aprs unless Bob is going to include a missile guidance system into aprs. This is why i have to say this to Gerry DO AS YOU TELL OTHERS TO DO. So it has been great while it lasted and thanks to those that have supported me in what little i have done to support aprs. It's been great and Merry Christmas and a Happy Newyear to all.

Bill KE4EER  
ke4eer@ro.com

---

## 657. Re: [APRSSIG:5430] Re: Error Ellips

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>  
Date: Thu, 21 Dec 1995 06:41:09 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <199512211241.GAA20865@crasher2.ttgciitn.com>  
Rendered body type: text/plain

Thus spake David W. Barrow III, splattered hither:  
> Let me see if I have this right....  
> One branch of the government PURPOSEFULLY induces GPS error  
> and then  
> The Coast Guard beacons the corrections FREE to those that have  
> a beacon reciever.  
>  
> Did I understand that correctly???? 'Cause it SURE doesn't make a whole  
> lot of sense.

Who said the government made a lot of sense?

73 de N0PBS... Merry Christmas to you too, Newt and Bill.

--  
Ryan Tucker  
rtucker@ttgciitn.com  
http://www.ttgciitn.com

ttgciitn.com owner  
ann-arbor.mi.us.undernet.org irc admin  
netins.net user development group

---

## 658. A little discipline, please.

From: schiers@ibm.net (hasan schiers)  
Date: Thu, 21 Dec 95 12:42:46 EST  
To: aprssig@tapr.org  
Message-ID: <199512211255.MAA16648@smtp-gw01.ny.us.ibm.net>  
Rendered body type: text/plain

On Thu, 21 Dec 1995 01:03:10 -0600 (CST) you wrote:

The topic at hand is properly noted on the  
>SUBJECT line. If you do not care to read about "GPS and Missiles" then skip  
>past articles labeled with this subject line. It's that simple. Sooner or  
>later the people engaged in this digression will once again return to topics  
>more akin to APRS.

Many of us have to pay to download. I don't have a local phone number to the internet, so I pay for every byte downloaded. Off topic silliness also wastes the bandwidth available on the internet. So from a resource point of view, this GPS missile stuff is a complete waste. Deleting by subject saves no money or bandwidth. Posting publicly opinions about off topic messages is appropriate, as it helps educate contributors to the list. So while you advise to wait the digression out, many of us are paying for it. I can't tell you how much we appreciate your cavalier assessment <g>.

If this list were moderated, most of the gps/missile message contributors would have been "hatted" and that would be the end of it. Public education and a wee bit of consideration would solve the problem. Giving someone a hard time for doing what is appropriate for the list is hardly helpful. 73,

robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam

---

## 659. Re: [APRSSIG:5436] Re: GPS and missiles

From: schiers@ibm.net (hasan schiers)  
Date: Thu, 21 Dec 95 12:45:13 EST  
To: aprssig@tapr.org  
Message-ID: <199512211255.MAA09485@smtp-gw01.ny.us.ibm.net>  
Rendered body type: text/plain

On Wed, 20 Dec 1995 23:43:42 -0600 (CST) you wrote:

All this missile crap and politics has no buisness  
>in an APRS mailing list. Just because something is remotely related to APRS  
>does not mean that this is the best place to discuss it.

>  
Amen! And because your comments are so rational and on point, I am  
sure you will be flamed by someone <vbg> 73,

robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam

---

## 660. Re: Error Ellips

From: Randy Hammock <hammock@tis.telos.com>  
Date: Thu, 21 Dec 1995 09:07:39 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SOL.3.91.951221090315.20409A-100000@zentropa>  
Rendered body type: text/plain

On Thu, 21 Dec 1995, Ryan Tucker wrote:

> Thus spake David W. Barrow III, splattered hither:  
> > Let me see if I have this right....  
> > One branch of the government PURPOSEFULLY induces GPS error  
> > and then  
> > The Coast Guard beacons the corrections FREE to those that have  
> > a beacon reciever.  
> >  
> > Did I understand that correctly???? 'Cause it SURE doesn't make a whole  
> > lot of sense.  
>  
> Who said the government made a lot of sense?

Dont forget the FAA. Haven't they proposed a system to improve GPS  
accuracy for aircraft use? That makes two govt agencies undoing what  
another has done.

--

Randy Hammock KC6HUR	Randy.Hammock@Telos.com
Telos Information Systems - EDQS	hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400	Voice: +1 301 507-5904
Greenbelt, Maryland 20770	FAX: +1 301 507-5892

---

## 661. Re: [APRSSIG:5443] Have Fun

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Thu, 21 Dec 1995 09:05:23 -0600 (CST)  
To: aprssig@tapr.org  
Cc: ke4eer@ro.com  
Message-ID: <199512211505.JAA03563@solar.cs.tamu.edu>  
Rendered body type: text/plain

Bill, and others...

It was NOT my intent to drive you or anyone else from a list. What I had done  
was probably to respond sharply last night after a long day at the office, to  
what I interpreted as a direct attack.

For the record, whe I see a question, I tend to answer it; when I see an  
apparent error in conception correct it. Those answers are not always short.

GPS is central to the theme of APRS. We have frequently complained or  
lamented the continued use of Selective Availability, and wished for ways to  
do something about it. This has occaasionally led us to corrections  
techniques.

I've recentltly spent most waking hours working on a low-cost DGPS base. What  
I sent out was based a lot on that work. When it's ready, we expect to have  
the proverbial \$500 DGPS station... based on parts and a little software...  
for research and other "scatter 'em where you need 'em" technology. This is  
something that \*will\* be practical for a local APRS network.

I did make a couple of specious comments regarding nuclear devices and  
missiles. These were off the track of the group. They were also in response  
to someone else's comments. Since the comments were brief, and I \*was\* trying

to make a joke of them, I didn't see too many problems therein.

I'd prefer to not see you leave the mailer. You've come up with a lot of good work and we need enthusiastic folks to stay involved in this hobby. We also need to be able to disagree occasionally without the heat and light that's been exhibited here.

I'd really have to agree with a couple of comments I've seen lately... scan the Subject: line, and if you don't want to read it, then kill it. I've a whole group I do that with because I don't want to unsubscribe for the next 4 weeks, but I really don't have time to read their stuff! I usually try to keep my replies to the subject at hand. Sometimes I digress... I'm a story-teller at heart, and it shows. But my real intent is to get the answer across and go on.

Regards, and Happy Holidays,  
Gerry

ps... I'll be incommunicado for the next week, visiting my wife and completely without a modem or dialup facilities (unless there's something under the tree I don't know about)

--  
Gerry Creager N5JXS \* SAREX Co-Investigator  
gerry@cs.tamu.edu \* A little radio that lets kids talk  
\* to astronauts, and smile  
\*\*\*\*\*

---

## 662. Re: [APRSSIG:5435] Re: Error Ellips

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Thu, 21 Dec 1995 09:48:08 -0600  
To: aprssig@tapr.org  
Message-ID: <9512211548.AA29867@omnifest.uwm.edu>  
Rendered body type: text/plain

Gerry,

The Coast Guard and I have similar interests. I would like to know, reasonably precisely, where my vehicle is.  
Does LoranC have similar inaccuracy built in?  
Do I understand that Europeans are staying with LoranC to avoid the US's "fiddle factor"?

Thanks VERY MUCH for educating the rest of us.

CUL & 73 de Dave

=====  
David W. Barrow III \* Amateur Radio:N9UNR \* Internet:dbarrow@omnifest.uwm.edu  
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603  
Ma Bell:(414) 375-2667 \* Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM  
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham  
=====

Smith & Wesson - the original "point & click" interface.

---

## 663. APRS/S Claus

From: "John B. Leonard" <jleonard@tbcnet.com>  
Date: Thu, 21 Dec 95 10:00:07 -0500  
To: APRS SIG <aprssig@tapr.org>  
Message-ID: <199512211600.KAA09542@tbc2.tbcnet.com>  
Rendered body type: text/plain

-- [ From: John B. Leonard \* EMC.Ver #2.5.02 ] --

Just saw on CNN that FAA has approved flight plan for one Claus, S.

Pilot - Claus, S  
Age - Unknown  
A/C Type - Sleigh  
TAS - 350 Kts  
Alt (AGL) - Rooftop height  
Departure Time - When Kid are Asleep  
Departure Point - North Pole

Can we drop the ICBM/Terrorist/Tom C. discussion long enuf to figure out if there's anyway the APRS group can assist the FAA with tracking this flight?

It would probably score some points with public, and give us something ON THE SUBJECT to discuss. Also would be a good drill.

Personally, I would REALLY like to see something coordinated thru the SIG,

as opposed to various fragmented groups. But beggars can't be...well, you know.

73's Barry

--

-----  
Disclaimer: Sometimes I don't know what I'm talking about. You'd better check on this.  
My mouth usually runs on after my knowledge on a subject runs out. It's a man, macho kinda thing.

J Barry Leonard  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

---

## 664. APRS over voice repeaters

From: Randy Hammock <hammock@tis.telos.com>  
Date: Thu, 21 Dec 1995 11:33:13 -0500 (EST)  
To: APRSSIG@tapr.org  
Message-ID: <Pine.SOL.3.91.951221110632.20548A@zentropa>  
Rendered body type: text/plain

I don't know if anyone has done much listening to the public service bands, but it seems that the method used by the PS people for automatic station ID would work for APRS via a voice repeater. This being, each time the officer keys his mic, the ID is sent before he starts talking (do they use digital delay to hold back the voice during ID or does the officer have to wait before speaking). The twist comes in that it seems the ID is sent without PL while voice has PL. I can listen to the Howard County police with CTCSS turned on and hear all the chatter but not the annoying braps of the auto IDs. Maybe I'm just hearing the pickup delay of my PL decoder, but it does seem like a way send data with out annoying the users. Of course the same principle could be applied to a trailing data burst.

--

Randy Hammock KC6HUR	Randy.Hammock@Telos.com
Telos Information Systems - EDOS	hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400	Voice: +1 301 507-5904
Greenbelt, Maryland 20770	FAX: +1 301 507-5892

---

## 665. WinAPRS beta

From: sproul@ap.org (Mark Sproul)  
Date: Thu, 21 Dec 1995 11:49:38 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130500acff3971ec11@[165.1.27.20]>  
Rendered body type: text/plain

WinAPRS beta status

As promised, we will be releasing WinAPRS beta by Christmas, however, the first release will be to about a dozen individuals.

We are restricting the first release so that we can keep on top of things for the first try. Once we have had a couple of weeks to get feed back from these people then we will be releasing a general beta version.

Here are a few notes about WinAPRS:

WinAPRS is going far better than I could have even imagined. I have far more features implemented that I expected by time for beta release. The common source implementation with MacAPRS is working out very well. The development environment that I am using, CodeWarrior, which allows me to write, compile, and debug Windows programs from my Mac has been working great.

WinAPRS is a "WINDOWS" application, it is NOT a DOS application, so the user interface follows Windows guide lines.

WinAPRS is a Win32 application. This means that it runs under Windows95 and WindowsNT. To run under Windows3.1, the Win32S DLL will be

required. Win32S is  
free and available off of the internet. See the on-line  
documentation for more  
info about Win32S.

WinAPRS uses the MacAPRS file format AND the DOS-APRS file format.  
This means that  
all of the hi-resolution maps for MacAPRS will work directly AND  
all of the maps  
that have been made by APRS users.

I have started some documentation, it can be seen at  
<http://www.ns.rutgers.edu/~ksproul/APRS/>

We will keep you informed about the progress, keep watching the Web page  
for updates.

Mark Sproul  
KB2ICI

---

## 666. ???APRS Auroral-Zone Propagation Study???

From: AA8JK@aol.com  
Date: Thu, 21 Dec 1995 12:21:41 -0500  
To: aprssig@tapr.org  
Message-ID: <951221122141\_96275129@mail04.mail.aol.com>  
Rendered body type: text/plain

Hello,

While looking through the January 1996 QST (looking for the life insurance  
ad) I read "The World Above 50 MHZ" on page 96. The article talks about  
Auroral-Zone Propagation and the possibility of some unusual propagation in  
the Arctic region.

The article states, "It might well be a useful exercise for 2-meter stations  
in the auroral-zone spaced 1000 to 2000 km apart to organize regular tests.  
As has already been demonstrated, low-powered FM stations can be effective  
(over large distances in the Arctic region). This suggests some more  
automatic means, such as packet, could provide an ideal adjunct to  
auroral-zone studies at 144 MHZ and even higher"

I have translated this into the following: APRS, we need your help!

The article further states that there have been some beacons placed up north  
to study the different types of propagation our friends have there. The  
problem with the a normal CW beacon is a person listening to the beacon is  
necessary. As you know, a person can't be listening to all the beacons, all  
the time. Here is where APRS comes to the rescue. Using the Micro Interface  
Module (MIM) and some low cost, low maintenance radios, a study of the Arctic  
propagation would be a great test and a great demonstration of one of the  
many uses of APRS. Studies of different bands could also be done.

I would find it interesting and fun to be part of a study with my favorite  
activity in ham radio being center stage. A project like this one could  
bring out other refinements of APRS. Bob's idea of being able to call a  
computer with APRS running and downloading the different reports (position  
and heard logs) might be something to investigate for remote sites. By  
uploading the same files to the Internet from a dedicated APRS information  
gathering station in the Arctic, even someone in Florida or Nevada could help  
with the study. As with most APRS related ideas, the possibilities are  
endless.

Please read the article and then let me know what you think. Can this be  
done? What might be the limitations? Is there anyone else that might be  
interested? Do we have people from Alaska and/or Northern Canada on the  
APRSSIG?

Thank you for you time.

73,

Steve Caesar AA8JK  
Tri-state APRS Working Group

AA8JK@aol.com



## 667. APRS not working on com 3

From: ndavis@spider.lloyd.com (Norman Davis)  
Date: Thu, 21 Dec 1995 09:25:34 +0000  
To: aprssig@tapr.org  
Message-ID: <m0tSooq-000TrOC@spider.lloyd.com>  
Rendered body type: text/plain

I installed a new VLB enhanced IO board in the machine and I can get everything to work on com 3 but aprs. Anyone have any Ideas.

Norm WB6SHI  
Norman Davis WB6SHI

Email ndavis@spider.lloyd.com  
72057,1722@compuserve.com  
I love Hot cars,Plans and  
Trains.  
Basicly anything that moves.

---

## 668. APRS on voice repeaters

From: Paul Moller <Paul\_Moller@csg.mot.com>  
Date: Thu, 21 Dec 1995 12:06:06 -0600  
To: aprssig@tapr.org  
Message-ID: <2.2b10.32.19951221180606.0072b36c@144.188.134.33>  
Rendered body type: text/plain

It appears to me that this sig needs a new topic now that GPS and bombs is slowing. So here goes...

I would like to open a discussion on the topic of APRS information via voice repeaters. Some topics are: What data rate is advisable? Is the repeater being used as a digi, a frequency transponder, or just a powerful transmitter/ sensitive receiver connected to a good antenna that can hear stuff from a long way away? How does one get around the problem that the repeaters are not on the APRS freq in the local area? Does that mean there are multiple APRS freqs in one local area, and they are different from those in the next city over? Well my questions can go on for a while.

What do you think?

>I don't know if anyone has done much listening to the public service  
>bands, but it seems that the method used by the PS people for automatic  
>station ID would work for APRS via a voice repeater.  
Paul, WD9ABE  
Maybe closer to GLNTC than anybody (5 miles)

---

## 669. RE: [APRSSIG:5440] Re: GPS and missiles

From: John Munsey <munseyj@enterprise.america.com>  
Date: Thu, 21 Dec 95 14:21:38 EST  
To: aprssig@tapr.org  
Message-ID: <Chameleon.4.01.2.951221142244.munseyj@enterprise.america.com>  
Rendered body type: text/plain

Sorry to disagree with so many folks but I for one have found the discussions of GPS and SA very helpful and interesting. It's good to know all we can about the tools we use.

-----  
John Munsey KB3GK  
E-mail: munseyj@america.com  
12/21/95 14:21:38  
-----

---

## 670. Santa tracking Net

From: BOB DERDERIAN <n2iph@mci.newscorp.com>  
Date: Thu, 21 Dec 1995 13:33:45 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <199512211833.NAA01176@camus-s1.delphi.com>  
Rendered body type: text/plain

Hello, all

I like Barrys' idea of a Santa tracking net on APRS. I WOULD be a good way to show off APRS capabilities to the public, etc and have some fun at the same time. Also a good way to introduce kids to Amateur Radio. Coordination thru the SIG seems the best way to go. Someone just need to start uplinking the object and others can grab it and steer Santa to their neighborhood, hi-hi. Bob(APR), is it possible to use(or is there imbedded in APRS an appropriate symbol that we may not be aware of?

To Keith and Mark(MAC/Win APRS): Are MACAPRS and/or WinAPRS using true .ico files to display symbols on the maps? And if so can a user teh create his own .ico to assign to a symbol or add to the symbol list? This would allow users to have a little creativity and personality in their copy of the program and allow custom symbols to be generated for special events, etc.

Happy Holidays to all, and to all a good night.

73, Bob

NNNN

---

## 671. Re: [APRSSIG:5443] Have Fun

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>  
Date: Thu, 21 Dec 1995 10:48:20 -0800 (PST)  
To: aprssig@tapr.org  
Cc: aprssig@tapr.org  
Message-ID: <Pine.HPP.3.91.951221104329.10304C-100000@abyss.ecst.csuchico.edu>  
Rendered body type: text/plain

AMEN...this sig has turned into a place for garbage...is there no imagination out there do you all have to continue to be a dead horse.

Come on people take it somewhere else..this is not a free for all and it is really getting tire some for us who really enjoy APRS and it's features. By the way I am familiar with unsubscribe and the delete button. Mine (delete button has been replaced twice because of all the use it gets here on this sig) gets plenty of use here. Oh yes and I have been playing with BOB's invention for over a year and have been a subscriber since its existance (the sig that is) 73 all and have fun you sure know how to destroy something fast..

Brad@ecst.csuchico.edu  
WA6ZKM/NNN0TVG/NNN0ASE FIVE NCA

---

## 672. Re: [APRSSIG:5452] WinAPRS beta

From: "Alan K. Unangst" <alanwc7r@primenet.com>  
Date: Thu, 21 Dec 1995 11:57:53 -0700  
To: aprssig@tapr.org  
Message-ID: <199512211858.LAA06239@usr3.primenet.com>  
Rendered body type: text/plain

I WOULD REALLY LIKE TO BE IN ON THE BETA TEST! Iam. not only into APRS, but also, deeply involved in Windows95. I even "iron out bugs" for the gand here in Northern Arizona. I think that I can be of assistance. Please let me know if I can help.

Sincerely,

Alan, WC7R

alanwc7r@primenet.com

At 11:00 AM 12/21/95 -0600, you wrote:

>WinAPRS beta status

>

>As promised, we will be releasing WinAPRS beta by Christmas, however, the  
>first release will be to about a dozen individuals.

>

>We are restricting the first release so that we can keep on top of things  
>for the first try. Once we have had a couple of weeks to get feed back from  
>these people then we will be releasing a general beta version.

>

>Here are a few notes about WinAPRS:

>

> WinAPRS is going far better than I could have even imagined. I  
>have far more

> features implemented that I expected by time for beta release. The  
>common source

> implementation with MacAPRS is working out very well. The

>development environment

> that I am using, CodeWarrior, which allows me to write, compile,

>and debug Windows

> programs from my Mac has been working great.

>

> WinAPRS is a "WINDOWS" application, it is NOT a DOS application, so

>the user  
> interface follows Windows guide lines.  
>  
> WinAPRS is a Win32 application. This means that it runs under  
>Windows95 and  
> WindowsNT. To run under Windows3.1, the Win32S DLL will be  
>required. Win32S is  
> free and available off of the internet. See the on-line  
>documentation for more  
> info about Win32S.  
>  
> WinAPRS uses the MacAPRS file format AND the DOS-APRS file format.  
>This means that  
> all of the hi-resolution maps for MacAPRS will work directly AND  
>all of the maps  
> that have been made by APRS users.  
>  
> I have started some documentation, it can be seen at  
> <http://www-ns.rutgers.edu/~ksproul/APRS/>  
>  
>  
>We will keep you informed about the progress, keep watching the Web page  
>for updates.  
>  
>Mark Sproul  
>KB2ICI  
>  
>  
>  
>  
Alan K. Unangst

---

### 673. Re: [APRSSIG:5455] APRS on voice repeaters

From: "Thomas H. Busch" <TOMB@avoca.nwsc.sea06.navy.mil>  
Date: Thu, 21 Dec 1995 14:19:26 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <2EEEC8E6AC7@avoca.nwsc.sea06.navy.mil>  
Rendered body type: text/plain

Bob has addressed this very subject.

He wrote some words about it for the 1995 ARRL Digital Communications Conference, and also spoke about it at the Hamvention.

I think what will be required is a DCD circuit that will blank the repeater output audio and feed it into a separate transmitter. That way, you don't irritate the voice users.

---

### 674. RE: [APRSSIG:5421] Re: GPS and missiles

From: "Markey, John" <markeyj@syncorp.com>  
Date: 21 Dec 1995 14:31:49 -0500  
To: aprssig@tapr.org  
Message-ID: <9512211942.AA10262@uu7.psi.com>  
Rendered body type: text/plain

AAAAARgh

---

### 675. U-2000 fix... NOT

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 21 Dec 1995 15:01:13 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951221145615.17984A-100000@greatlakes>  
Rendered body type: text/plain

The only way I have been able to reproduce the BUFFER OVERFLOW error was to program a second PC to output the U-2000 data at 10 reports per second, and then to enter an APRS PROMPT.

Now that I can reproduce the problem, I can work on a solution. But I worked all evening and DO NOT YET HAVE A RELIABLE FIX.

I'm gonna be on XMAS travel, so the FIX will NOT come until early January. Sorry guys..

---

### 676. Alaska APRS interest... NOT

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 21 Dec 1995 15:08:53 -0500 (EST)

To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951221150329.17984B-100000@greatlakes>  
Rendered body type: text/plain

On Thu, 21 Dec 1995 AA8JK@aol.com wrote:

> Auroral-Zone Propagation and the possibility of some unusual propagation in  
> the Arctic region.  
> The article states, "It might well be a useful exercise for 2-meter stations  
> in the auroral-zone spaced 1000 to 2000 km apart to organize regular tests.  
> interested? Do we have people from Alaska and/or Northern Canada on the  
> APRSSIG?

WB4APR REPLY COMMENT: Last year, I sent a half dozen copies of APRS to all ARRL officials listed in QST in Alaska. I also invested a WEEK in doing maps of Alaska. No response so far...

---

## 677. Re: [APRSSIG:5455] APRS on voice repeaters

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 21 Dec 1995 15:24:36 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951221151438.17984D-100000@greatlakes>  
Rendered body type: text/plain

On Thu, 21 Dec 1995, Paul Moller wrote:

> I would like to open a discussion on the topic of APRS information via voice  
> repeaters. Some topics are: What data rate is advisable? Is the repeater  
> being used as a digi, a frequency transponder, or just a powerful  
> transmitter/ sensitive receiver.... What about all the different FREQS?

WB4APR REPLY COMMENT: Whohaaa, All of those questions are answered in APRS\README\VOX-RPTR.txt. There is a TNC at the voice repeater listening on the voice input. It MUTES the voice repeater OUTPUT so users do NOT hear the packet and then it DIGIPEATS the POSIT on the local APRS DIGITAL FREQ. That way EVERYONE that wants to TRACK ANYONE, just monitors the APRS freq. And all mobiles can report their POSITS on their VOICE TRANSCEIVER. The APRS MIC Encoder (avail by Dayton) will interface your GPS to your MIC so that your posit goes out when you release the PTT in a 0.25 sec burst.

---

## 678. Santa tracking

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 21 Dec 1995 15:36:10 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951221152513.17984E-100000@greatlakes>  
Rendered body type: text/plain

WB4APR REPLY COMMENT: All it takes is for someone in each area to put a SANTA OBJECT up in north canada. Use MAPS-PLOTS-RANGE to find out the distance to your QTH. Compute the SPEED necessary to Arrive at your QTH at the right time, and enter a COURSE. APRS will uplink the posit and everyone else will DR it until it arrives. If you want to make it appear more realistic (and for those stations that have DR off), every now and then, you can HOOK and MOVE the object to the DR'ed position.

---

## 679. Re: [APRSSIG:5460] Re: APRS on voice repeaters

From: Randy Hammock <hammock@tis.telos.com>  
Date: Thu, 21 Dec 1995 16:14:57 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SOL.3.91.951221160228.21992A-100000@zentropa>  
Rendered body type: text/plain

On Thu, 21 Dec 1995, Thomas H. Busch wrote:

> I think what will be required is a DCD circuit that will blank the  
> repeater output audio and feed it into a separate transmitter. That  
> way, you don't irritate the voice users.

Of course there are other considerations and the two that I have in mind both have their drawbacks as well as advantages. By sending the POS packet at the end of the transmission, you run in to possibility of someone stepping on the packet through quick keying (I've heard some old HF contesters in the repeater that won't let a millisecond of silence happen). While sending the POS packet in the front of the transmission has the problem, does the operator wait or is a delay line used to time shift the audio to make up for the time of the POS packet? At anyrate we're not discussing guided missiles. dig dig dig And yes, A DCD coupled with a delay line should keep the user from hearing the brack of the POS packet.

--

Randy Hammock KC6HUR	Randy.Hammock@Telos.com
Telos Information Systems - EDOS	hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400	Voice: +1 301 507-5904
Greenbelt, Maryland 20770	FAX: +1 301 507-5892

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## 680. WinAPRS beta

From: sproul@ap.org (Mark Sproul)  
Date: Thu, 21 Dec 1995 15:36:46 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130506acff752758ed@[165.1.27.20]>  
Rendered body type: text/plain

(I hate messages that are hard to read, I really tried to make the last one look correct, but it got messed up any way. So here it is again, this time hopefully, much easier to read)

WinAPRS beta status

As promised, we will be releasing WinAPRS beta by Christmas, however, the first release will be to about a dozen individuals.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

!!! IMPORTANT

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

We are restricting the first release so that we can keep on top of things for the first try. Once we have had a couple of weeks to get feed back from these people then we will be releasing a general beta version.

By the end of January, we will have a generally available beta for everyone to try.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Here are a few notes about WinAPRS:

1) WinAPRS is going far better than I could have even imagined. I have far more features implemented that I expected by time for beta release. The common source implementation with MacAPRS is working out very well. The development environment that I am using, CodeWarrior, which allows me to write, compile, and debug Windows programs from my Mac has been working great.

2) WinAPRS is a "WINDOWS" application, it is NOT a DOS application, so the user interface follows Windows guide lines.

3) WinAPRS is a Win32 application. This means that it runs under Windows95 and WindowsNT. To run under Windows3.1, the Win32S DLL will be required. Win32S is free and available off of the internet. See the on-line documentation for more info about Win32S.

4) WinAPRS uses the MacAPRS file format AND the DOS-APRS file format. This means that all of the hi-resolution maps for MacAPRS will work directly AND all of the maps that have been made by APRS users.

5) I have started some documentation, it can be seen at  
<http://www-ns.rutgers.edu/~ksproul/APRS/>

We will keep you informed about the progress, keep watching the Web page for updates.

Mark Sproul  
KB2ICI

---

## 681. Re: [APRSSIG:5457] Santa tracking Net

From: sproul@ap.org (Mark Sproul)  
Date: Thu, 21 Dec 1995 16:48:02 -0500  
To: aprssig@tapr.org  
Message-ID: <v02130509acff85d74431@[165.1.27.20]>  
Rendered body type: text/plain

>To Keith and Mark(MAC/Win APRS): Are MACAPRS and/or WinAPRS using true .ico  
>files to display symbols on the maps? And if so can a user then create his  
>own .ico to assign to a symbol or add to the symbol list? This would allow  
>users to have a little creativity and personality in their copy of the  
>program and allow custom symbols to be generated for special events, etc.

>

Well, first Macs don't use ".ico" files, but you probably knew that.

Yes, WinAPRS uses ".ico" files, but most of them are already assigned.

BTW, I wrote a program on the Mac to take all of the ICONs we had created for the Mac and write out an ICO file for each one of them, it sure was better than redoing all of the icons (there's almost 200 of them).

Mark

---

## 682. A question about mobile stations.

From: Bill Northup <northup@sw.stratus.com>  
Date: Thu, 21 Dec 1995 16:58:33 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <199512212158.QAA03311@blackdog.sw.stratus.com>  
Rendered body type: text/plain

Hi all

I am new to the mail list, but have been using APRS for a while. The problem that I am having is with my mobile system (gps/tnc/ht) is sending out positions, and they all get mapped. The old positions are never removed so after I have been driving for a while the whole map gets filled with my station everywhere. Do I have something set up wrong, or is this normal ?

Bill

--

Bill Northup	INTERNET:	northup@sw.stratus.com
Stratus Computer Inc.	Amateur Radio:	N1QPR
55 Fairbanks Boulevard		QRP-NE #307
Marlboro, MA 01752		NorCal #1027

---

## 683. Re: [APRSSIG:5460] Re: APRS on voice repeaters

From: lmkeeran@ilstu.edu (Larry Keeran)  
Date: Thu, 21 Dec 1995 16:16:15 -0600  
To: aprssig@tapr.org  
Message-ID: <v02120d02acff81b92aee@[138.87.2.109]>  
Rendered body type: text/plain

Our 2M repeater generates output PL (CTCSS) of 103.5 if the input has PL is 103.5 and repeats the input without PL if a carrier squelch (CS) station uses it that way.

And we have had anti-PL installed since 1976. (and written up in 73 about that time -Jan '78) If the dx repeater user on the same frequency transmits his PL tone (107.2 for his area), the local repeater doesn't even key up. The "anti-PL" tone of 107.2 actually opens the PTT circuit. If a local station (someone stronger than the 107.2 DX station) is heard by the repeater, the capture principle applies and the "anti-PL" is defeated - closing the path for PTT to happen normally. This allows for two things: the weak dx repeater user doesn't QRM the locals and the local could point his beam to the dx repeater accessing it without QRMing the local users.

Packet does work thru the repeater nicely. We used it in emergencies for passing ARC traffic where there wasn't digipeaters. You do have to lengthen the lead sync tone (what is it TXD?, been a while) to allow for the keyup delay. And lengthen the other parameter to prevent the reply packet from being sent too quickly before the repeater input noise burst finishes. You don't have to wait for repeater drop, just the unkey burst.

This allows the voice user to keep his transceiver "on PL" and not hear the CS (packet) station. I'll test APRS on our repeater over the next couple of weeks to see the effects and to come back with any critique. Packet \*HAS\* worked so I am not expecting any problems with APRS.

>Bob has addressed this very subject.

>

>He wrote some words about it for the 1995 ARRL Digital

>Communications Conference, and also spoke about it at the

>Hamvention.

>

>I think what will be required is a DCD circuit that will blank the

>repeater output audio and feed it into a separate transmitter. That

```

////////////////////////////////////
Larry M. Keeran ISU IS - Data Processing Equip Tech      lmkeeran@ilstu.edu
EC McLean Co-Pres CIRC-CIPRUS,Inc-APRSM-APRS k9orp.ampr.org (44.72.126.97)
wireless path: k9orp via ILGRD1      k9orp@wb9uus.ampr.org (44.72.123.97)
////////////////////////////////////

```

From: Gwyn Reedy <gwyn@paccomm>  
Date: Thu, 21 Dec 1995 23:05:57 +0000 (GMT)  
To: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951221230447.3709A-100000@paccomm>  
Rendered body type: text/plain

On Wed, 20 Dec 1995, David W. Barrow III wrote:

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 21 Dec 1995 18:39:27 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951221183133.19423I-100000@greatlakes>  
Rendered body type: text/plain

From: "John B. Leonard" <jleonard@tbcnet.com>  
Date: Thu, 21 Dec 95 18:22:27 -0500  
To: APRS SIG <aprssig@tapr.org>  
Message-ID: <199512220022.SAA16113@tbc2.tbcnet.com>  
Rendered body type: text/plain

Ok, here's what I figure his itinerary will be to my QTH:

Page 2007

ETD - 13:31 CST 12/24/95  
Speed - 350 TAS  
No stops enroute  
Ok, he'll make it to DeKalb IL in time.

--

-----  
Disclaimer: Sometimes I don't know what I'm talking  
about. You'd better check on this.  
My mouth usually runs on after my knowledge  
on a subject runs out. It's a man,  
macho kinda thing.

J Barry Leonard  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

---

## 687. Re: [APRSSIG:5456] Re: GPS and missiles

From: w5rkn@amsat.org (Ronald G. Parsons)  
Date: Thu, 21 Dec 1995 18:27:13 -0600  
To: aprssig@tapr.org  
Message-ID: <v02130500acffab3c2312@[204.251.33.85]>  
Rendered body type: text/plain

>Sorry to disagree with so many folks but I for one have found the discussions  
>of GPS and SA very helpful and interesting. It's good to know all we can  
>about the tools we use.  
>  
>-----  
>John Munsey KB3GK

John, I agree with you. The more I can learn, the better.

Ron W5RKN

also:  
rparsons@bga.com

---

## 688. APTRAK and 73 article!

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 21 Dec 1995 20:25:25 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951221202208.19812A-100000@greatlakes>  
Rendered body type: text/plain

I just got word that 73 mag is doing a special SATELLITE issue for MARCH.

DEADLINE is 22 DEC. Tomorrow!

I need to get a copy of APTRAK.txt to 73 mag ASAP.. CANT FIND AN ADDRESS  
anywhere or EMAIL.

Wife is picking me up in 5 minutes for 2 week trip!

If anyone wants to copy APTRAK.txt, its in the APTRAK\README directory...  
and send it in as an article, I would appreciate it. First persone to  
successfully do so, please tell everyone else so they dont get too many  
copies! THANKS... SORRY TO USE THE SIG, but im outta time...

WB4APR REPLY COMMENT:

---

## 689. Re: [APRSSIG:5469] A question about mobile stations.

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>  
Date: Thu, 21 Dec 1995 19:39:35 -0600  
To: aprssig@tapr.org  
Message-ID: <199512220138.TAA11881@sys1.tapr.org>  
Rendered body type: text/plain

At 04:13 PM 95-12-21 -0600, you wrote:

>Hi all

>

> I am new to the mail list, but have been using APRS for a while. The  
> problem that I am having is with my mobile system (gps/tnc/ht) is



> sending out positions, and they all get mapped. The old positions are  
> never removed so after I have been driving for a while the whole map  
> gets filled with my station everywhere. Do I have something set up  
> wrong, or is this normal ?  
>  
> Bill  
>  
>--  
>  
> Bill Northup                   INTERNET:       northup@sw.stratus.com  
> Stratus Computer Inc.       Amateur Radio:   N1QPR  
> 55 Fairbanks Boulevard       QRP-NE #307  
> Marlboro, MA 01752               NorCal #1027  
>  
>  
>  
Hit the spacebar and it will clear all but the last location recieved or  
paging up or down in map scale will also force a screen refresh.  
-----  
          David E. Barrett  
          barrettd@crpl.cedar-rapids.lib.ia.us  
-----  
          If I can't give you a good sound reason  
          I'll give you a reason that sounds good

---

## 690. Just Starting Out Info

From: "Wheatley, Maurice" <mwheatle@trsystems.com>  
Date: Wed, 20 Dec 1995 14:13:00 -0500  
To: aprssig <aprssig@tapr.org>  
Message-ID: <199512220139.TAA11911@sys1.tapr.org>  
Rendered body type: text/plain

As a rank beginner on this SIG as well as APRS in general, are there any  
suggestions as to where to find basic information such as APRS data  
conventions, map data formats, etc? My interest is in writing custom windows  
apps using a KISS link to a TNC . Any and all help would be appreciated.

Thanks.

Moe AE4JY  
MWHEATLE@trsystems.com  
ae4jy.ampr.org

---

## 691. Re: [APRSSIG:5462] U-2000 fix... NOT

From: N4QEA <moyers@ibm.net>  
Date: Thu, 21 Dec 1995 21:50:40 EST  
To: aprssig@tapr.org  
Message-ID: <199512220247.CAA17493@smtp-gw01.ny.us.ibm.net>  
Rendered body type: text/plain

**\*\* Reply to note from Bob Bruninga <bruninga@nadn.navy.mil> 12/21/95 2:13pm -0600**

> The only way I have been able to reproduce the BUFFER OVERFLOW error was  
> to program a second PC to output the U-2000 data at 10 reports per  
> second, and then to enter an APRS PROMPT.  
>

Interesting discovery. That would explain why it isn't affecting everybody. Those  
of us with a 16550 uart buffer the data because APRS isn't requesting it all the  
time. So when that com port is polled it has several lines of buffered data??  
HUMMMMM let me see if I can figure out how to turn the buffering off on the 16550.  
I used to have a small com that would do that.

73 Bob, and TNX once again

> I'm gonna be on XMAS travel, so the FIX will NOT come until early  
> January. Sorry guys..

I'm not sorry, every time you go on a trip more gets added to aprs.....hihi

John Moyers  
ARS; N4QEA  
Packet; N4QEA @ N4QEA.#METN.TN.USA.NA  
Inet; moyers@ibm.net  
Cruise Missile; 36,02.89N/83,43.35W

## 692. Change in 2MEG CD?

From: "Antanaitis - Margaret B." <marganta@umd5.umd.edu>  
Date: Thu, 21 Dec 1995 22:25:34 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.OSF.3.91.951221221606.751A-100000@marple.umd.edu>  
Rendered body type: text/plain

- A word of caution to anyone considering buying a 1:2,000,000 USGS CD.
- Several days ago I received my 1:2,000,000-Scale Optional format USGS DLG CD. It is marked as being Mastered 7/95. It is \*NOT\* compatible with MAKEMAP1.BAS. The file structure on the CD is tiered by state rather than region as expected by MAKEMAP1.BAS.
- The DLG data is in files organized by state name (\DATA\DLG\NC\NC2MILRD.DO for North Carolina road information). 4 to 8 files are provided for each state (NC2MILRD.DO, NC2MILHY.DO, NC2MILBD.DO, NC2MILRR.DO, NC2MILMS.DO, NC2MILMT.DO, NC2MILMS.TXT, and NC2MILMT.TXT).
- The respective DLG (.DO) files are structured similar to 1:100K files I have downloaded over the Internet EXCEPT each line of data is terminated ONLY in a linefeed character AND varies in total length. Neither UNBLOCK.BAS nor its variants would process the DLG files due to the variable line lengths.
- After I wrote a new program to unblock the data, I tried using MKMAPHK2.EXE to generate a 16 mile radius map. It did NOT work, although the map center was within the range of the unblocked DLG file. MKMAPHK2.EXE errored off warning that the DLG files did not cover that point.
- Fortunately I found that I COULD process the unblocked DLG file using CONV100C.BAS to produce files usable by MAPFIX18.BAS. A lot of work and not fun but at least I can extract data.
- Also, the CD does not have the USGS XTRACT.EXE program, rather the utility ARCVIEW is provided for viewing the map data. It requires a minimum of 8 Meg of RAM to run (and it won't work with my 4 Megs).
- Unless I really screwed up [ and it wouldn't be the first time ;-) ] it would appear that MAKEMAP will have to be modified to accomodate a different directory structure and possibly a new data format (I am not that familiar with FIELDED data nor QuickBasic to figure out from the existing code what data format is expected). Any help would be appreciated.

Ted Antanaitis WA7ZZB  
email: marganta@umd5.umd.edu

---

## 693. Re: [APRSSIG:5454] APRS not working on com 3

From: Richard Amirault <amirault@laraby.tiac.net>  
Date: Thu, 21 Dec 1995 23:03:53 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSF.3.91.951221230221.904B-100000@laraby.tiac.net>  
Rendered body type: text/plain

On Thu, 21 Dec 1995, Norman Davis wrote:

- > I installed a new VLB enhanced IO board in the machine and I can get
- > everything to work on com 3 but aprs. Anyone have any Ideas.
- > Norm WB6SHI
- > Norman Davis WB6SHI
- >

Sure! Move APRS to Comm 1 or Comm 2 and move one of the other things to Comm 3! (APRS was \*not\* designed to work with anything other than Comm 1 or 2 --- see the docs)

Richard Amirault                      N1JDU                      Boston, Massachusetts USA  
amirault@tiac.net                      "Go Fly A Kite"

---

## 694. Re: [APRSSIG:5310] AEA PK232

From: WB4LTF@aol.com  
Date: Thu, 21 Dec 1995 23:20:02 -0500  
To: aprssig@tapr.org  
Message-ID: <951221232001\_96794659@emout06.mail.aol.com>  
Rendered body type: text/plain

Try going to the O C T section. Then shut off the AEA and turn it back on if you see the AEA opening screen then you can go back to APRS (hit escape) and re-initialize from APRS. (Alt-S & T). This always works for me...

Go to the README Subdirectory and read AEA.TXT  
Also check the System Subdirectory for the INITAEA.TNC and RESTYORE.TNC

Bud  
wb4ltf@aol.com

---

### 695. Re: [APRSSIG:5475] APRTRAK and 73 article!

From: Richard Amirault <amirault@laraby.tiac.net>  
Date: Thu, 21 Dec 1995 23:39:40 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSF.3.91.951221233844.1955B-100000@laraby.tiac.net>  
Rendered body type: text/plain

On Thu, 21 Dec 1995, Bob Bruninga wrote:

>  
> I just got word that 73 mag is doing a special SATELLITE issue for MARCH.  
>  
> DEADLINE is 22 DEC. Tomorrow!  
>  
> I need to get a copy of APRTRAK.txt to 73 mag ASAP.. CANT FIND AN ADDRESS  
> anywhere or EMAIL.  
>  
> Wife is picking me up in 5 minutes for 2 week trip!  
>  
> If anyone wants to copy APRTRAK.txt, its in the APRTRAK\README directory...  
> and send it in as an article, I would appreciate it. First person to  
> successfully do so, please tell everyone else so they dont get too many  
> copies! THANKS... SORRY TO USE THE SIG, but im outta time....

DONE! Sent 11:39 pm EST 12/21/95 to hq@arrl.org

Richard Amirault                      N1JDU                      Boston, Massachusetts USA  
amirault@tiac.net                      "Go Fly A Kite"

---

### 696. Garmin source/price?

From: Richard Amirault <amirault@laraby.tiac.net>  
Date: Thu, 21 Dec 1995 23:47:33 -0500 (EST)  
To: APRS sig group <aprssig@tapr.org>  
Message-ID: <Pine.BSF.3.91.951221234531.1955C-100000@laraby.tiac.net>  
Rendered body type: text/plain

I thought I'd saved some msgs regarding what retail outfit has the best price on the Garmin 45, but I guess not.

I'm ready to get my hot little hands on one! Can someone point me in the right direction? Thanks

Richard Amirault                      N1JDU                      Boston, Massachusetts USA  
amirault@tiac.net                      "Go Fly A Kite"

---

### 697. Re: [APRSSIG:5482] Re: APRTRAK and 73 article!

From: rwf <rwf@mindspring.com>  
Date: Fri, 22 Dec 1995 00:12:26 -0500  
To: aprssig@tapr.org  
Message-ID: <199512220512.AAA15907@borg.mindspring.com>  
Rendered body type: text/plain

At 10:43 PM 12/21/95 -0600, Richard Amirault wrote:

>DONE! Sent 11:39 pm EST 12/21/95 to hq@arrl.org

Whoops....

ARRL publishes "QST". They probably will not forward it to Wayne Green, the publisher of "73" Magazine (their competition)

---

### 698. Re: [APRSSIG:5480] Re: APRS not working on com 3

From: pes@gv.net (Peter Short)  
Date: Thu, 21 Dec 1995 23:08:17 -0800  
To: aprssig@tapr.org  
Message-ID: <199512220801.AAA09985@main.gv.net>

Rendered body type: text/plain

>On Thu, 21 Dec 1995, Norman Davis wrote:  
>  
>> I installed a new VLB enhanced IO board in the machine and I can get  
>> everything to work on com 3 but aprs. Anyone have any Ideas.  
>> Norm WB6SHI  
>> Norman Davis WB6SHI  
>>  
>  
>Sure! Move APRS to Comm 1 or Comm 2 and move one of the other things to  
>Comm 3! (APRS was \*not\* designed to work with anything other than Comm  
>1 or 2 --- see the docs)  
>  
>Richard Amirault                      N1JDU                      Boston, Massachusetts USA  
>amirault@tiac.net                      "Go Fly A Kite"  
>  
>If APRS isnt supposed to work on com 3 or com 4 then why does my pp88 work  
on com 4?  
try com 4.You might have an IRQ conflict with com 1.That usually holds your  
mouse.  
Its all in yor addresses in You computer.  
Peter.KD6DKD  
>

---

### 699. Re: [APRSSIG:5475] APRTRAK and 73 article!

From: "Jerry" <jerdptro@xnet.com>  
Date: Fri, 22 Dec 1995 05:57:33 +0000  
To: aprssig@tapr.org  
Message-ID: <199512221150.FAA29179@flood.xnet.com>  
Rendered body type: text/plain

FLASH!!!!

I think I get the cupie doll. I was able to find Wayne Green's  
E-Mail address on the net, so I forwarded the APR Trak info to him  
with an explination that Bob is on vacation. If he has questions, I  
may post them on SIG for help from others.  
Happy Holidays, and watch for 73's March 1996 issue.

Jerry

-----

Date: Thu, 21 Dec 1995 19:38:06 -0600 (CST)  
Reply-to: aprssig@tapr.org  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
To: aprssig@tapr.org  
Subject: [APRSSIG:5475] APRTRAK and 73 article!

I just got word that 73 mag is doing a special SATELLITE issue for MARCH.

Jerry Di Pietro  
N9VHW  
Streamwood, IL  
jerdptro@xnet.com

---

### 700. Re: [APRSSIG:5451] APRS over voice repeaters

From: n4uls@ix.netcom.com (Jack Anderson )  
Date: Fri, 22 Dec 1995 07:08:57 -0800  
To: aprssig@tapr.org  
Message-ID: <199512221508.HAA14826@ix2.ix.netcom.com>  
Rendered body type: text/plain

You wrote:

>

>I don't know if anyone has done much listening to the public service  
>bands, but it seems that the method used by the PS people for automatic  
>station ID would work for APRS via a voice repeater. This being, each  
>time the officer keys his mic, the ID is sent before he starts talking (do  
>they use digital delay to hold back the voice during ID or does the  
>officer have to wait before speaking). The twist comes in that it seems  
>the ID is sent without PL while voice has PL. I can listen to the Howard  
>County police with CTCSS turned on and hear all the chatter but not the  
>annoying braps of the auto IDs. Maybe I'm just hearing the pickup delay  
>of my PL decoder, but it does seem like a way send data with out annoying  
>the users. Of course the same principle could be applied to a trailing  
>data burst.

There is some discussion of doing this with APRS in the README files.

With the system you are referring to, the officer usually has to wait before speaking to avoid cutting off the first word in the PTT-ID data burst. Sometimes there is an audio or visual indication of when it's OK to talk. But, more and more users are finding that putting the data burst at the end of the transmission instead of the beginning accomplishes the same thing with out the need for a manual delay.

This would be a pretty easy interface to build up, just a black box that goes between the radio and mic, with connections for TNC audio, and some way to get the TNC to send a posit when the mic is unkeyed. The use of CTCSS here would keep users from hearing the packets.

Jack

---

## 701. Re: [APRSSIG:5475] APRTRAK and 73 article!

From: "Alan K. Unangst" <alanwc7r@primenet.com>  
Date: Fri, 22 Dec 1995 09:43:06 -0700  
To: aprssig@tapr.org  
Message-ID: <199512221643.JAA11220@usr1.primenet.com>  
Rendered body type: text/plain

DONE, as we speak...Have a great holiday, and don't forget the sun  
block....73..Alan, WC7R..//\

At 07:38 PM 12/21/95 -0600, you wrote:  
>  
>I just got word that 73 mag is doing a special SATELLITE issue for MARCH.  
>  
>DEADLINE is 22 DEC. Tomorrow!  
>  
>I need to get a copy of APRTRAK.txt to 73 mag ASAP.. CANT FIND AN ADDRESS  
>anywhere or EMAIL.  
>  
>Wife is picking me up in 5 minutes for 2 week trip!  
>  
>If anyone wants to copy APRTRAK.txt, its in the APRTRAK\README directory...  
>and send it in as an article, I would appreciate it. First person to  
>successfully do so, please tell everyone else so they dont get too many  
>copies! THANKS... SORRY TO USE THE SIG, but im outta time...  
>  
>WB4APR REPLY COMMENT:  
>  
>  
>  
>  
Alan K. Unangst

---

## 702. Re: [APRSSIG:5319] Re: License Class/Gate

From: ko4qc@ix.netcom.com (Joel Gamble )  
Date: Fri, 22 Dec 1995 09:50:33 -0800  
To: aprssig@tapr.org  
Message-ID: <199512221750.JAA08680@ix3.ix.netcom.com>  
Rendered body type: text/plain

You wrote:  
>  
>If you can talk on 30 meters, you can do it the other way, too.  
>Ralph  
>  
No-one is allowed to "talk" on 30 mtr.  
Joel

---

## 703. Unrecognized recipient in message

From: tsxbbs.smtp.mail.tosser@nashville.com  
Date: Fri, 22 Dec 95 11:45:42  
To: aprssig@tapr.org  
Message-ID: <199512221957.NAA19579@sys1.tapr.org>  
Rendered body type: text/plain

You recently sent a message to mark.endicott@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was

delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

---

#### 704. Re: [APRSSIG:5484] Re: APRTRAK and 73 article!

From: Richard Amirault <amirault@laraby.tiac.net>  
Date: Fri, 22 Dec 1995 14:57:12 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.BSF.3.91.951222145613.14871C-100000@laraby.tiac.net>  
Rendered body type: text/plain

>  
> >DONE! Sent 11:39 pm EST 12/21/95 to hq@arrrl.org  
>  
> Whoops....  
>  
> ARRL publishes "QST". They probably will not forward it to Wayne Green, the  
> publisher of "73" Magazine (their comperition)  
>

Double WHOOPS! Guess it was too close to bedtime;-) Well hope some one else got thru.

Richard Amirault                      N1JDU                      Boston, Massachusetts USA  
amirault@tiac.net                      "Go Fly A Kite"

---

#### 705. Re: [APRSSIG:5489] Re: License Class/Gate

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Fri, 22 Dec 1995 21:53:25 +0000 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.95122215212.17723B-100000@pinegov>  
Rendered body type: text/plain

On Fri, 22 Dec 1995, Joel Gamble wrote:

> You wrote:  
> >  
> >If you can talk on 30 meters, you can do it the other way, too.  
> >Ralph  
> >  
>     No-one is allowed to "talk" on 30 mtr.  
>                                      Joel  
>  
>  
>

Joel is, of course, correct, in the sense that you cannot use voice on the 30 M ham band, and you must stay below 200 watts too..but you can be digital! 73 and Happy Holidays!

de KD4UYR (digitally speaking, of course)

---

#### 706. Re: [APRSSIG:5456] Re: GPS and missiles

From: BenWS5R@aol.com  
Date: Fri, 22 Dec 1995 17:41:36 -0500  
To: aprssig@tapr.org  
Message-ID: <951222174135\_97372835@mail06.mail.aol.com>  
Rendered body type: text/plain

I think both Bill and Gerry have alot to offer to the sig and would hate to see either leave. Bill, I find your hints and techniques on map making helpful. Gerry, your expertise on the subject of GPS' interesting and helpful. So why can't we put this raging forest fire OUT and do as someone in the LA area said "Why can't we all just get along?"

Thats all, Ben WS5R DM95cf

---

#### 707. Re: [APRSSIG:5489] Re: License Class/Gate

From: rwf <rwf@mindspring.com>  
Date: Fri, 22 Dec 1995 18:15:34 -0500  
To: aprssig@tapr.org  
Message-ID: <199512222315.SAA02824@borg.mindspring.com>  
Rendered body type: text/plain

Hmmm my TNC does it all the time. brappp brappp brappppp

At 01:22 PM 12/22/95 -0600, you wrote:  
>You wrote:

>>  
>>If you can talk on 30 meters, you can do it the other way, too.  
>>Ralph  
>>  
> No-one is allowed to "talk" on 30 mtr.  
> Joel  
>  
>  
>  
>

---

## 708. Ultimeter 2000

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>  
Date: Fri, 22 Dec 1995 23:00:28 -0600  
To: aprssig@tapr.org  
Message-ID: <199512230459.WAA07330@sys1.tapr.org>  
Rendered body type: text/plain

[Empty message body]  
[Attachment: PEET.TXT; text/plain; 1,889 bytes]

---

## 709. RE: [APRSSIG:5437] GPS ALTITUDE AND ETC

From: jaykq4ms@nando.net  
Date: Thu, 21 Dec 95 10:30:43 EST  
To: aprssig@tapr.org  
Message-ID: <Chameleon.4.01.2.951221103758.jaykq4ms@>  
Rendered body type: text/plain

Hi Mike, Jay in Raleigh, NC. I agree with you that the subject has gotten a little out of hand. But I do enjoy learning more about The "how " of things. But thats not the reaso for replying. I had a good chuckle over your story about you date. "Been there, Done that!". I think option #1 is the best of both worlds. A good friend (WB4IUY) is married to a very nice lady (AC4QD). They both are extras, and share the joys of this hobby (among other things!). Now MY wife is like your date. I get excited about the new radios, or new developments with APRS, of even a new square on 6m and all I get is a big YAWN!! Oh well, like I've been told ('scuse my French) "Lifes a bitch, then you marry one, then you die)

Jay  
KQ4MS

<A non-registered user of APRS>.....give me time!

-----  
E-mail: jaykq4ms  
Date: 09/24/95  
Time: 02:25:03

This message was sent by Chameleon  
-----

---

## 710. Re: [APRSSIG:5493] Re: GPS and missiles

From: Fred Quarles <fredq@bihs.net>  
Date: Sat, 23 Dec 1995 00:05:09 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <199512230605.AAA07859@brazos.bihs.net>  
Rendered body type: text/plain

So why can't we put this raging forest fire OUT and do as someone in  
>the LA area said "Why can't we all just get along?"

>  
>  
>Thats all, Ben WS5R DM95cf  
>  
>  
>

Well put Ben, I know Gerry personally and he does have a lot to offer, but asking him to give a partial answer is worse than telling him to take a hike. Bill does have alot to offer and is very much an expert in map making. I would hate to see either one of them get pushed out of this sig...

Merry Christmas to all

Fred, KC5HHN

---

## 711. QUOTING TOO MUCH JUNK ON THIS SIG

From: HENRYVB@aol.com  
Date: Sat, 23 Dec 1995 03:37:37 -0500  
To: aprssig@tapr.org  
Message-ID: <951223033733\_97697716@mail02.mail.aol.com>

Rendered body type: text/plain

In a APRSSIG message dated 95-12-20 18:02:52 EST, ke4eer@ro.com wrote:

>OK GERRY I REMEMBER A WHILE BACK YOU WHERE COMPLAINING ABT  
>ITEMS POSTED THAT WHERE OFF TOPIC FOR THE SIG. WHAT DO YOU  
>CALL THIS VERY LENGHTY STORY ABOUT GARBAGE NOTHING TO DO  
>WITH APRS.

etc etc etc (as the complete original message was repeated.)

People, why is it that the whole message has to be copied over and over and over again? I have seen messages with the WX stuff and GPS with ">>>" on each line, some messages going over 100 lines! Since most mailers Re: the original message, why quote over and over? If you need to see the original message just look it up on your system. Let's cut out this crap and just quote the IMPORTANT part of a message, or nothing at all.

Personal to Bill: "If need be to get rid of having to read all this junk i will unsubscribe from the sig." If you feel inclined to unsubscribe, you are not hurting me by doing that, only yourself. Quite an idle threat.

And to all: Have yourself a Merry Merry Christmas, or whatever else should be Merry at this time of the year.

henryvb@aol.com  
N9WMM

---

## 712. Bandwidth and excessive quoting in reply messages

From: BOB DERDERIAN <n2iph@mci.newscorp.com>  
Date: Sat, 23 Dec 1995 04:43:07 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <199512230943.EAA30219@camus-s1.delphi.com>  
Rendered body type: text/plain

All I can say is HERE, HERE to N9WMM's NOTAL concerning quoting messages in replies.

We(HAMS) of all people should be wiser than to do this, realizing that the group has probably;

- 1.) Read the original message and will know the subject matter. -or-
- 2.) Have deleted the message without reading 'cause they are not interested in the subject.

You wouldn't use this method if you were replying via packet would you? I think not. You would be FLAMED to within an inch of your life!!

All that a reply msg needs to continue the thread on the subject is to have a subject title that will echo the original msg or let the reader know that this is a reply to the original message, after that you are just wasting bandwidth or too lazy to care. Sure the Internet is huge and the bandwidth dwarfs 1200 and 300 baud packet channels but at the rate it is growing it won't be long before non-thinking button-clickers choke it to a snails crawl!

Remember when packet was faster and actually useable, now its filled with so much garbage(kinda the direction this SIG is heading) that it is a waste. I am not referring to the missiles and bombs discussion either. That topic has some merit and some of the contributors are very knowledgeable. If the topic seems off the beaten path to you then DON'T READ IT! That's not too tough is it? Just hold down the CTRL-key and click on all the mail that you DON'T want to read, then hit the delete key and it's outta here!

Happy Holidays to all.

Bob, n2iph

---

## 713. Re: [APRSSIG:5499] Bandwidth and excessive quoting in reply messages

From: jkerns@usit.net (jim kerns)  
Date: Fri, 22 Dec 1995 20:20:36 -0500  
To: aprssig@tapr.org  
Message-ID: <199512231326.IAA05602@use.usit.net>  
Rendered body type: text/plain

>All I can say is HERE, HERE to N9WMM's NOTAL concerning quoting messages in  
>replies. etc. etc. etc  
>  
>Bob, N2IPH sent the above original msg.

I have tried to keep out of this discussion, but



PLEASE lets not let this sig group get like the packet BBs's.  
Mine has page after of receipes, civil war info, navy ships news, missing persons, and lord knows what else.  
I only ready a smal fraction of the msg. but it takes 30 minutes sometimes for the packet to list them all. At one time when it was mostly Ham related it would take 5 or 6 minutes to screen print the msg.  
Merry Christmas and a Happy 1996 to all.

Jim N4PUQ, in Tn. (who just cluttered up the SIG a little more!)>  
>  
>

---

## 714. Inexpensive way to get APRSSIG

From: n4uls@ix.netcom.com (Jack Anderson )  
Date: Sat, 23 Dec 1995 06:49:30 -0800  
To: aprssig@tapr.org  
Message-ID: <199512231449.GAA03308@ix10.ix.netcom.com>  
Rendered body type: text/plain

During the current debate over what's "on topic" for APRSSIG and what's not, I noticed several comments from folks who get upset by the "off topic" messages because of the cost involved to download them.

If anyone is interested, I run a landline BBS where I have carried the APRSSIG mailing list as a "conference" on the system since its inception. I offer full, free access to the system on the first call with no mandatory subscription fees. The BBS is located in Vienna, VA, and is a local call from most of the Metro DC area, however, I do get calls from all over the country. Even if you are not a local call to the BBS, you might find this to be a more economical solution than your current method of following the sig. If so, you are invited to call 703/207-9622 and give it a try. A "QWK" mail door is available, which allows you to download new messages in compressed format and read them offline.

Personally, I think some of the technical discussions about GPS operation, errors and error correction are quite informative and I don't mind seeing them from time to time. Perhaps we need two mailing lists - one for APRS discussion only, and one for APRS-GPS and other general topics not especially related to APRS itself. Then, when a thread starts to "stray", we can POLITELY ask the participants to move the thread to the other list. That way, those interested can still participate and follow the discussion, and those not can stay focused on the "APRS only" sig.

73,

Jack

---

## 715. Re: [APRSSIG:5495] Ultimeter 2000

From: jwasmuth@indy.net (John Wasmuth)  
Date: Sat, 23 Dec 1995 09:54:20 -0500  
To: aprssig@tapr.org  
Message-ID: <199512231454.JAA17860@IndyNet.indy.net>  
Rendered body type: text/plain

>  
> I've included in this message the name and actual output of the four  
> serial port output modes for the Ultimeter 2000. I thought someone might like  
> it for some reason or another.  
> Now for the imbedded question; any clue on how to decode any of them?

Here is the layout for the data logging mode from the Peet Bros. software documentation:

!! indicates start of record  
Current Wind Speed (4 hex digits) in 0.1 KMPH.  
Current Wind Direction (4 hex digits) 0 - 255 ; 0 = North, 40 = East,  
Outdoor Temperature (4 hex digits) in 0.1 degrees F; 0 = 0.0 deg F,  
Long Term Rain (4 hex digits) in 0.01"



From: Gwyn Reedy <gwyn@paccomm>  
Date: Sat, 23 Dec 1995 16:38:49 +0000 (GMT)  
To: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951223162956.216M-100000@paccomm>  
Rendered body type: text/plain

On Wed, 20 Dec 1995, William Nolle wrote:

> OK GERRY I REMEMBER A WHILE BACK YOU WHERE COMPLAINING ABT  
> ITEMS POSTED THAT WHERE OFF TOPIC FOR THE SIG. WHAT DO YOU  
> CALL THIS VERY LENGHTY STORY ABOUT GARBAGE NOTHING TO DO  
> WITH APRS. Right now the biggest part of sig messages are either the Peet  
> brothers wx station or the accuracy of GPS. Although getting sick of the WX  
> station problems they are related. Now the missiles and now atomic bombs have  
> nothing to do with APRS. There must be a sig on internet someplace where  
> this would all be very welcome. PLEASE TAKE YOUR GARBAGE  
> ELSEWHERE. THANK YOU. If need be to get rid of having to read all this  
> junk i will unsubscribe from the sig.  
>  
> Bill KE4EER  
> -----

Here we go again.

Wx station support - That IS part of APRS, like it or not.

GPS accuracy - Wonderful tutorial information. Cannot understand why anyone interested in APRS would not also be interested in this.

SA and reasons therefore - Same answer as GPS accuracy comment above. It is good to read this technical information so well presented. The rationale for having SA is also useful, since it is something we have to live with in using GPS.

Drifting into the politics of who pays for it, who misuses it (missiles) etc is too far out of line (IMHO). But I'm not going to shout or unsubscribe...

Happy holidays to all.

Gwyn

---

## 719. Re: [APRSSIG:5485] Re: APRS not working on com 3

From: ndavis@spider.lloyd.com (Norman Davis)  
Date: Sat, 23 Dec 1995 08:39:34 +0000  
To: aprssig@tapr.org  
Message-ID: <m0tTX3l-000TrpC@spider.lloyd.com>  
Rendered body type: text/plain

>>On Thu, 21 Dec 1995, Norman Davis wrote:

>>

>>> I installed a new VLB enhanced IO board in the machine and I can get  
>>> everything to work on com 3 but aprs. Anyone have any Ideas.

>>> Norm WB6SHI

>>> Norman Davis WB6SHI

>>>

>>

>>Sure! Move APRS to Comm 1 or Comm 2 and move one of the other things to  
>>Comm 3! (APRS was \*not\* designed to work with anything other than Comm  
>>1 or 2 --- see the docs)

>>

>>Richard Amirault                    N1JDU                    Boston, Massachusetts USA  
>>amirault@tiac.net                    "Go Fly A Kite"

>>

Pete made a good point. Why does setup ask what port if it not suppose to work on 3 or 4.

Norman Davis WB6SHI

Email ndavis@spider.lloyd.com  
72057,1722@compuserve.com  
I love Hot cars,Plans and  
Trains.  
Basicly anything that moves.

---

## 720. Re:[APRSSIG:5495] Ultimeter 2000

From: Larry Griffin <largriff@onramp.net>  
Date: Sat, 23 Dec 1995 11:08:13 -0600  
To: "'aprssig@tapr.org'" <aprssig@tapr.org>  
Message-ID: <01BAD127.FDC9CAE0@lub02.onramp.net>

Why don't you just call Peet Bros and ask for Bill. Peet's literature invites programmers to call for info on the output formats.

Copy of original message follows:

Just an FYI with and imbedded question.

Now for the imbedded question; any clue on how to decode any of them? I'd like to do some visual basic stuff for the U2000 and I've used every search engine on the internet to find any info on the format, I only got a grand total of 10 hits out of 23 different search engines :-)

Datalog Mode

!!005400AC00D2000027FD02B8-----01630509

## Packet Mode

\$ULTW004A00CF00D1000027FDFFFE903D0001---01630509

Complete Record Mode

```
[all current readings + 3 hour pressure Change + todays hi and lows + long term  
hi and lows + calibration numbers + time and date]
```

[illegible]

Modem Mode

```
Serial port is kept in receive mode no data output until command is sent then it
outputs a complete record
```

Chastise me if this was to lengthy or irelavent to this list or better yet tell  
this dumb Iowa boy what to spin his magic decoder ring to in order to unravel  
the peet treat.

From: "Jerry" <jerdptro@xnet.com>  
Date: Sat, 23 Dec 1995 12:08:09 +0000  
To: aprssig@tapr.org  
Message-ID: <199512231801.MAA05968@flood.xnet.com>  
Rendered body type: text/plain

WAYNE'S ADDRESS is profusion@aol.com

> Date: Sat, 23 Dec 1995 10:43:45 -0600 (CST)  
> Reply-to: aprssig@tapr.org  
> From: Homing1@aol.com  
> To: aprssig@tapr.org  
> Subject: [APRSSIG:5504] E-mail to 73

> jerdptro@xnet.com (Jerry) wrote:

```
> >I think I get the cupie doll. I was able to find Wayne Green's
> >E-Mail address on the net, so I forwarded the APR Trak info to him
>
```

```
> I hope your address source is current. 73 just had another change of editors
> and e-mail address. If you sent it to ProFusion@aol.com, it probably won't
```

> get to Wayne or the 73 staff. The new address for the 73 editorial office is  
> Design73@aol.com. The new 73 Staff Editors are Richard Lubash and Bill  
> Foshier. If your Rolodex says anyone else is Staff Editor or Senior Editor,  
> it's time to update (again).  
>  
> This info is based on a phone conversation today (12/22) with Joyce Sawtelle  
> in Peterborough. Hope it helps.  
>  
> 73 de Joe K00V  
> 73 Contributing Editor  
> Homingin@aol.com (my address, not 73's)  
>  
> P.S. It's probably still not too late for the March issue.  
>  
>  
Jerry Di Pietro  
N9VHW  
Streamwood, IL  
jerdptro@xnet.com

---

## 722. Re: [APRSSIG:5455] APRS on voice repeaters

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm>  
Date: Sat, 23 Dec 1995 19:55:08 +0000 (GMT)  
To: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951223194929.160E-100000@paccomm>  
Rendered body type: text/plain

On Thu, 21 Dec 1995, Paul Moller wrote:

>  
> I would like to open a discussion on the topic of APRS information via voice  
> repeaters. Some topics are: What data rate is advisable? Is the repeater  
> being used as a digi, a frequency transponder, or just a powerful  
> transmitter/ sensitive receiver connected to a good antenna that can hear  
> stuff from a long way away? How does one get around the problem that the  
> repeaters are not on the APRS freq in the local area? Does that mean there  
> are multiple APRS freqs in one local area, and they are different from those  
> in the next city over? Well my questions can go on for a while.

Bob (APR) is on vacation for a few days and I don't know if he will be on  
the SIG during that time. (You have to take long trips on vacation to  
creat new and interesting HST files!)

Beginning about a year ago, Bob was discussing his plan for using voice  
repeaters. His Mic encoder (which has been quite delayed but is coming  
along just fine now) would be used by mobiles on the repeater  
frequencies. A position report can be sent in about .3 second during the  
squellch tail of the repeater. A special TNC at the repeater copies the  
packet position reports, blocks them from being repeated on the repeater  
output, and retransmits them on the local APRS frequency.

Perhaps some hardy soul will make a special archive of the APRS messages  
dealing with this topic.

This type of equipment is going to be available commercially. Count on  
it. I'll defer further comment to APR when he gets back on the net.

73 and happy holidays,  
Gwyn, W1BEL

---

## 723. Re: [APRSSIG:5467] WinAPRS beta

From: kc6wya@bdt.com (Barry Winkler)  
Date: Sat, 23 Dec 95 12:51 PST  
To: aprssig@tapr.org  
Message-ID: <m0tTauI-000bn2C@bdt.bdt.com>  
Rendered body type: text/plain

hello mark,  
name here is barry winkler kc6wya  
i am one of the key players in the san francisco bay area.  
i am the person the worked with sam ko6jr at Pacificon and i do  
a tuesday net on aprs for over a year.  
if there is any way i can get on the beta testing or an copy befor you you  
go on the sig, so when i get boomed with questions i can answer them.  
we have about 20 digis on line from checo. ca in th north to la area south.

i just want to thank you for all your work with mac aprs and now with ibm aprs.

when sam ko6jr did his thing at Pacificon your work came out in every one.  
his demo was first class and we got alot of users from it.

thanks and have a good xmas and a happy new year  
barry winkler kc6wya

```
>look correct, but it got messed up any way. So here it is again, this time
>hopefully, much easier to read)
>
>WinAPRS beta status
>
>As promised, we will be releasing WinAPRS beta by Christmas, however, the
>first release will be to about a dozen individuals.
>
>!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
>!!! IMPORTANT
>!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
>We are restricting the first release so that we can keep on top of things
>for the first try. Once we have had a couple of weeks to get feed back from
>these people then we will be releasing a general beta version.
>
>By the end of January, we will have a generally available beta for everyone
>to try.
>!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
>
>Here are a few notes about WinAPRS:
>
>1) WinAPRS is going far better than I could have even imagined. I have far
>more features implemented that I expected by time for beta release. The
>common source implementation with MacAPRS is working out very well. The
>development environment that I am using, CodeWarrior, which allows me to
>write, compile, and debug Windows programs from my Mac has been working
>great.
>
>2) WinAPRS is a "WINDOWS" application, it is NOT a DOS application, so the
>user interface follows Windows guide lines.
>
>3) WinAPRS is a Win32 application. This means that it runs under Windows95
>and WindowsNT. To run under Windows3.1, the Win32S DLL will be required.
>Win32S is free and available off of the internet. See the on-line
>documentation for more info about Win32S.
>
>4) WinAPRS uses the MacAPRS file format AND the DOS-APRS file format. This
>means that all of the hi-resolution maps for MacAPRS will work directly AND
>all of the maps that have been made by APRS users.
>
>5) I have started some documentation, it can be seen at
>    http://www-ns.rutgers.edu/~ksproul/APRS/
>
>
>We will keep you informed about the progress, keep watching the Web page
>for updates.
>
>
>
>Mark Sproul
>KB2ICI
>
>
>
#####
#####
*****kc6wya@bdt.com*****
*****
    The world of Ham Radio and all its fun. APRS IS ALIVE IN NORTHERN Ca.
    BARRY KC6WYA ON PACKET 145.010 SE YA ON THE AIR 440.650 OR 1284.200
```

---

## 724. Gwyn address

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Date: Sat, 23 Dec 1995 16:47:44 -0600  
To: aprssig@tapr.org  
Message-ID: <9512232247.AA21972@omnifest.uwm.edu>  
Rendered body type: text/plain

Gwyn,

Sorry to take the bandwidth BUT  
gwyn@paccomm.csd.uwm.edu

gets returned as unknown.....

Can you email me a better address?

CUL & 73 de Dave

```
=====
David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====
```

---

## 725. More MKMAPKKE tweaks and fixes.

From: KSwaggart@aol.com  
Date: Sat, 23 Dec 1995 18:02:40 -0500  
To: aprssig@tapr.org  
Message-ID: <951223180239\_78152593@emout04.mail.aol.com>  
Rendered body type: text/plain

Another update of MKMAPKKE has been uploaded to  
tapr.org:/tapr/SIG/aprssig/upload

In this update:

Incorporated BLOCKED/UNBLOCKED feature from MKMAPHK2 so an extra step is  
not required when using files downloaded via the Internet.

Reworked the + and - options so they work like the original MKMAPHK1 and  
wont crash as often.

Changed coast and riverbanks to color 11, bright cyan, to conform to  
standard APRS  
colors. Also allows you to delete streams, which a dim cyan, when you are  
paring down  
your map points without affected rivers and coastlines.

Added historical railroad catagories for the old rail buffs. These plot in  
dim orange or dim violet to stand out from normal railroads.

Extracted the date of the map file data and display it and the quad name  
while the map is building so you know how old the map data is. Some of these  
files on my CD ROM show dates of 1974!

I have not been able to add error trapping routines so that it gracefully  
crashes when it gets too many points. Also, have not yet added any loops back  
to the start so you do not have to reenter the same data for the next map.  
These are in the future, I think.

73 & Merry Christmas, and Happy Map Making in the New Year.

Ken, W7KKE

---

## 726. Re: [APRSSIG:5450] APRS/S Claus

From: JCorne1954@aol.com  
Date: Sun, 24 Dec 1995 05:43:30 -0500  
To: aprssig@tapr.org  
Message-ID: <951224054329\_78357649@mail02.mail.aol.com>  
Rendered body type: text/plain

This is going to be tricky. Here in Hawaii S. Claus will have to do some  
monuvering, due to the mountins and all the highrise buildings. Shoot he'll  
probobly put the comacussays piolets of WWII to shame. But we will be keeping  
a eye out for him.

Can you see it. Santa going home in a hawaiian flower shirt, shorts, flip  
flops, with a surf board and sun burnt.

73's

N9QIN

**727. Re: [APRSSIG:5505] Re: GPS and missiles**

From: schiers@ibm.net (hasan schiers)  
 Date: Sun, 24 Dec 95 00:15:34 EST  
 To: aprssig@tapr.org  
 Message-ID: <199512241340.NAA28278@smtp-gw01.ny.us.ibm.net>  
 Rendered body type: text/plain

On Sat, 23 Dec 1995 10:45:02 -0600 (CST) you wrote:

>Wx station support - That IS part of APRS, like it or not.

Yes, and judging from the # of WX stations showing up on APRS, it is a popular part.

>GPS accuracy - Wonderful tutorial information. Cannot understand why  
 >anyone interested in APRS would not also be interested in this.

Agreed.

>SA and reasons therefore - Same answer as GPS accuracy comment above. It  
 >is good to read this technical information so well presented. The  
 >rationalle for having SA is also useful, since it is something we have to  
 >live with in using GPS.

Yep.

>Drifting into the politics of who pays for it, who misuses it (missiles)  
 >etc is too far out of line (IMHO). But I'm not going to shout or  
 >unsubscribe...

I couldn't agree more. Unfortunately, if anyone has the timerity to suggest that something has strayed off topic, one runs into the "I have the right to do any damn thing I want and you should do what you need to, to deal with it" mentality. A real sense of cooperation, accommodation and consideration, reminiscent of 20 meters. It is equally unfortunate that discussions tend to dichotomize into two syndromes:

1. I got mine, you got a problem? Stick it in your ear.
2. If I don't get my way, I am going to pick up my toys and go home.

Neither is particularly useful. Both are immature.

73,

robert "hasan" schiers  
 Ham Radio Packet: n0an@n0an.ia.usa.noam

**728. Re: [APRSSIG:5511] Gwyn address**

From: n4nr@vulcan.com (N4NR)  
 Date: Sun, 24 Dec 95 07:52:00 -0600  
 To: aprssig@tapr.org  
 Message-ID: <8B781D8.00120005E0.uuout@vulcan.com>  
 Rendered body type: text/plain

-> gwyn@paccomm.csd.uwm.edu  
 -> gets returned as unknown.....  
 ->  
 -> Can you email me a better address?

Try gwyn@paccomm.com

Merry Christmas,

Dennis - N4NR  
 n4nr@vulcan.com

**729. For Sale! (fwd)**

From: dvelez@norfolk.infi.net (Daniel Velez)  
 Date: Sun, 24 Dec 95 10:10:47



To: aprssig@tapr.org  
Message-ID: <199512241511.KAA13948@moe.infi.net>  
Rendered body type: text/plain

Perhaps an inexpensive way to get a GPS for that tracker!

=====  
Original post - edited for brevity  
=====  
From: jwelter@ibm.net (John Welter)  
Newsgroups: sci.geo.satellite-nav  
Subject: For Sale!  
Date: 23 Dec 1995 01:44:08 GMT

I've got many many Leica GPS engines for sale. All units are DGPS capable, and some also have phase information output for high accuracy processing. These units are intended for EMBEDDED systems as they are a circuit board with two serial ports. Also for sale are antenna's for the above units. Also for sale numerous MX-4200D units which are basically a packaged version of the above engines without display. They are intended for PC interfacing and have 4 com ports that support RS-232, NMEA, and RS-485?

=====  
His response to my \$\$\$ question, also edited  
=====  
From: jwelter@ibm.net  
To: dvezlez@norfolk.infi.net  
Subject: Re: For Sale!

All are RTCM DGPS ready. We've used them with two big DGPS service providers in the States (DCI and AccuPoint) with 2-5m accuracies...We've also done some phase processing with them and you can expect better then 5ppm if you're careful to maintain lock...Price for the engines is \$100, MX-4200's \$200, Phase option on either is \$50, and a Aircraft TSO'd antenna is \$50.

I've got about 10 engines right now and 8 MX's left. They sell like hotcakes!  
=====

73 de Dan N4WZR

---

## 730. To all the Whiners . . .

From: JeffS5@aol.com  
Date: Sun, 24 Dec 1995 19:04:45 -0500  
To: aprssig@tapr.org  
Message-ID: <951224190444\_23140463@emout06.mail.aol.com>  
Rendered body type: text/plain

I have sat here for 2 weeks listening to all the complaining about who thinks what's important to this SIG (in their opinion). This SIG was founded on APRS. APRS was founded BECAUSE of GPS. GPS was founded in part to get missiles home and on-time. Is this related to APRS? Yes! There is NO ONE on this SIG that's not interested or facinated by the concept of GPS, how it works, and why. GPS is the basic building block of APRS and this SIG. There are newcomers to GPS, APRS, & this SIG constantly signing-on that really don't have a clue how things work, or why. IT'S THESE PEOPLE WHO ARE GONA MAKE APRS FLY IN THE AMATEUR WORLD FOLKS! If Gerry wants to give the long version of how GPS works on missiles, let him! He is, by far more qualified to speak than most who are here. Frankly I enjoyed it!

For those who complain that they're paying for each E-Mail message they receive, I suggest you look around at changing servers. There are PLENTY who charge flat rate for their services. AOL is one if you prefer the giant servers, and Earthlink is another as a WWW provider. Those that can't get local phone access and are paying LD charges, buy a faster modem!

Bottom Line: QUIT COMPLAINING for cryin' out loud!

There's no need to fwd your opinions about who sent what to where and whether or not YOU deem it fit for APRS. If you can't resist complaining, send it direct, but quit complaining to the SIG. We're not interested!

Can't stand it anymore and HAVE to sign-off?: 73 & SEE YA!

I hope you who are doing the whining are just about thru cause I'm getting tired of mass deletes.

Happy Holidays,

Jeff - WA6EQU

---

### 731. Re: [APRSSIG:5517] To all the Whiners . . .

From: Greg Jones <wd5ivd@tapr.org>  
Date: Sun, 24 Dec 1995 21:07:47 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <199512250307.VAA10925@sys1.tapr.org>  
Rendered body type: text/plain

>  
> For those who complain that they're paying for each E-Mail message they  
> receive, I suggest you look around at changing servers. There are PLENTY who  
> charge flat rate for their services. AOL is one if you prefer the giant  
> servers, and Earthlink is another as a WWW provider. Those that can't get  
> local phone access and are paying LD charges, buy a faster modem!  
>

If you are paying by the message -- you can put any TAPR SIG mailing group  
into what is called digest mode.

Send e-mail to listserv@tapr.org

in the body of the message say

set aprssig digest

This will cause one message a day to be sent containing all the messages  
from the sig that day.

Maybe this will help.

If you are not familiar with how Internet lists work, what has been  
happening on APRS SIG with diverse topics happening at the same time -- this  
is pretty normal. Just press delete if you read something you don't like  
and keep an eye on the subject line.

Merry Xmas and Happy Holidays!

Greg

---

### 732. digest mode

From: Greg Jones <wd5ivd@tapr.org>  
Date: Mon, 25 Dec 1995 09:29:39 -0600 (CST)  
To: aprssig@tapr.org (BBS SIG mailing)  
Message-ID: <199512251529.JAA04392@sys1.tapr.org>  
Rendered body type: text/plain

Looks like I might have left out an option in my last message I posted.  
Thanks to Henry on AOL for catching this error.

The command looks to be

set aprssig mail digest

I left out the mail option in the eariler message.

Hopefully that works. All the commands are availavle if you send the  
command help in the message to the body.

Hope everyone is having a nice holiday break.

Cheers - Greg

---

### 733. Use of APRS at National Weather Service sites

From: MooreKD1E@aol.com  
Date: Mon, 25 Dec 1995 18:36:02 -0500  
To: aprssig@tapr.org  
Message-ID: <951225183601\_23623515@mail06.mail.aol.com>  
Rendered body type: text/plain

I am the amateur radio liaison for the SE Michigan office of the National  
Weather Service. This White Lake MI WSFO has the warning responsibilty for  
17 counties in SE lower MI. APRS is one of the reporting systems we give to  
the NWS operators. I am interested in communicating with others amateurs  
that support National Weather Service offices across the nation using APRS.  
Thank you:

John Moore, KD1E  
moore kd1e@aol.com

### 734. This isnt about missiles or flames.

From: KD4EMI@aol.com  
Date: Mon, 25 Dec 1995 22:26:30 -0500  
To: aprssig@tapr.org  
Message-ID: <951225222629\_23741524@mail06.mail.aol.com>  
Rendered body type: text/plain

Here is an interesting thing I ran into . Think I should share it with the sig.

I run my KPC on battery mode usually when Im mobile.  
When the battery runs down, the xmit audio becomes unreadable and I know its time to change the 9v battery.

This has become a hassle as I usually am leaving the tracker on.  
Wired up the KPC to the car battery..Left the 9v battery in there.

Come to find out, when the 9V battery runs dead, even with external power applied, the TNC gets moody and xmit audio is garbled.  
Sure enough, take out the battery, (taped up the open 9V connector so it wont touch anything inside) and boom, the tnc works again.  
Therefore...if your having a problem, even when external power is applied, check the 9v battery.  
I duplicated this test with a dead 9v battery on my other kpc 3. Again, it did not work properly, even when external power was applied.

Now I operate without the battery and the lithium keeps the important data.  
73,  
Mike KD4EMI@ AOL.COM

---

### 735. question and info

From: KD4EMI@aol.com  
Date: Mon, 25 Dec 1995 22:26:33 -0500  
To: aprssig@tapr.org  
Cc: 0004818186@mcimail.com  
Message-ID: <951225222632\_23741550@emout04.mail.aol.com>  
Rendered body type: text/plain

#1 is anyone using aprs on 6 meters?  
And if so, any activity there? I would like to try it on my new 706 but havent heard even a BRAAAP on 6 meters.

#2

There exists these small stamp sized "computers"  
They are great for applications involving analog to digital conversions and have rs232 compatable ports, programable in "basic" and are inexpensive.  
KC4NMY and myself are developing a small stamp that hooks up to a cheap wx radio. For those in area's that dont have APRS wx stations, or  
for possible skywarn applications (without the peet wx station, which doesnt know if a tornado is inbound until its on top of it) this chip will monitor the alert tone on a wx radio.  
When the Radio shack wx beep goes off, indicating a wx emergency, the chip hears this and programs the tnc with a previously decided text. This txt can be set up in aprs format to set off your wx alarms on your computer, or be set up with another tnc/chip that can read the alert, and dial up a beeper list if needed. Your aprs program will  
alert you to a problem, and if your in the car or outside, your beeper could alert you. REMIND you that it is a generic alert, and tells you that bad wx is coming, not the nature of the wx emergency but at least it is another way to remind you to investigate the wx situation.

The cost of an entire kit could be less than \$100.

I (we) need feedback from the sig about how to change this basic premise of operation to better suit their needs.  
What would your specific need be?  
What modification to this basic idea would you suggest?

Thanks in advance. Mike KD4EMI@AOL.COM  
(but please reply in the sig to encourage feedback)

---

### 736. Re: [APRSSIG:5502] Re: Ultimeter 2000

From: aps@world.std.com (Armando P Stettner)  
Date: Tue, 26 Dec 1995 00:37:45 -0500  
To: aprssig@tapr.org  
Cc: jwasmuth@indy.net, barrettd@crpl.cedar-rapids.lib.ia.us, mead@skat.usc.edu

Message-ID: <199512260537.AA02055@world.std.com>  
Rendered body type: text/plain

Hi gang.

Here are the details for the Peet Brothers Company's Ultimeter 2000 and Model 500 systems' serial communications. I don't know how this relates to the Ultimeter II.

Enjoy,  
aps.

Armando Stettner  
aps@ieee.org, N1TYG

Communications Details for the Ultimeter 2000 (and 500)  
Abridged by Armando Stettner (N1TYG) from the  
Peet Brothers Company's "Serial Data Specification 12/7/95"

#### Overall Descriptions

-----  
2400 baud, 8 bits, 1 stop bit, no parity. Each byte is a printable ASCII character representing one hex digit. Data is most significant digit first.

There are 4 modes of communications with/from the U2000. Each mode is entered by pressing and holding for 3 seconds, a two key combination. Each mode sends a specific data record with a mode specific header character string.

The enabling key combination, header string and record contents are listed below. In general, the 4 operating modes are:

1. Data Logging mode where data is output continuously. This mode is the default mode for the system.
2. Packet mode, where data is output every 5 minutes.
3. Modem mode, where the U2000 will respond to commands it receives. This appears to be another way to set various configuration parameters.
4. Complete Record mode, where the data is also output continuously. This mode is not available on the Model 500.

#### Data Format and Precision Notes

-----  
Wind speed: 0.1 knots per hour  
Wind direction: 0-255  
Temperatures: 0.1 degrees F  
Rain: 0.01 inches  
Pressures: 0.1 mbar  
Humidity: 0.1%  
Date: day of the year (January 1 = 0)  
Time: minute of the day

The notion of 'today' and 'yesterday' occurs between midnight and midnight. So, today's high is calculated within the range of midnight and the current time.

#### Record Structures

-----  
\*\*\*\* DATA LOGGING Mode \*\*\*\*

Enabling key combination: CLEAR & WIND SPEED for 3 seconds

Header string: '!!' (two exclamation marks, not including the quotation marks)

Record size: 40 hex digits + header, carriage return and line feed.

Record detail:

Element	Data Item	Hex Digits
1	Wind speed	4
2	Wind direction	4
3	Outdoor temp	4
4	Rain	4
5	Barometric pressure	4
6	Indoor temp	4
7	Outdoor humidity	4
8	Indoor humidity	4
9	Date (day of year)	4
10	Time (minute of day)	4
	Carriage Return, Linefeed	4

-----  
 \*\*\*\* Packet Mode \*\*\*\*

Enabling key combination: CLEAR & WIND CHILL for 3 seconds

Header string: '\$ULTW' (not including the quotation marks)

Record size: 44 hex digits

Record detail:

Element	Data Item	Hex Digits
1	Wind speed peak over last 5 min.	4
2	Wind direction of wind speed peak	4
3	Current outdoor temp	4
4	Rain total for today	4
5	Current barometric pressure	4
6	Barometer delta value (0.1 mbar)	4
7	Barometer correction factor (LSW)	4
8	Barometer correction factor (MSW)	4
9	Current outdoor humidity	4
10	Date	4
11	Time	4

-----

\*\*\*\* Modem Mode \*\*\*\*

Enabling key combination: CLEAR & TEMPERATURE for 3 seconds

Header string: '>n' (beginning of each line, where n goes from 'A' to 'K')

Record size: not applicable

Record detail:

Command	Syntax	Hex digits in date
- Set date of year/time of day in minutes	>Addddtttt	4 + 4
- Set wind direction correction factor	>Bwww	3
- Set rain gage increments 0=0.01; 1=0.1	>Ci	1
- Set Barometric correction factor	>Dbbbbbbbb	8
- Set sea level barometric value	>Ebbbbbb	5
- Set leap year value (0-3)	>Fl	1
- Master reset	>G	0
- Send 1 complete record	>H	0
- Set data logging mode	>I	0
- Set Packet mode	>J	
- Set modem mode	>K	

-----

\*\*\*\* Complete Record Mode \*\*\*\*

Enabling key combination: CLEAR & RAIN for 3 seconds

Header string: '&CR&' (including the quotation marks)

Record size: 448 hex digits

Record detail:

Element	Data Item	Hex Digits
1	Windspeed	4
2	Current wind direction	4
3	Wind speed peak	4
4	Wind direction peak	4
5	Wind chill	4
6	Outdoor temp	4
7	Rain total for today	4
8	Barometric pressure	4
9	Barometer delta value	4
10	Barometer Correction Factor (LSW)	4
11	Barometer Correction Factor (MSW)	4
12	Indoor temp	4
13	Outdoor humidity	4
14	Indoor humidity	4
15	Dew point	4
16	Date	4
17	Time	4
18	Low wind chill for today	4
19	Time of low wind chill	4
20	Yesterday's low chill value	4
21	Time of yesterday's low chill	4
22	Date of long term low chill	4
23	Long term low chill value	4
24	Time of low chill value	4
25	Today's low outdoor temp	4
26	Time of today's low outdoor temp	4
27	Yesterday's low outdoor temp value	4
28	Time of yesterday's low temp value	4
29	Date of long term outdoor low temp	4
30	Long term low outdoor temp value	4
31	Time of Long term outdoor temp	4
32	Today's low barometric pressure value	4
33	Time of today's low barometric value	4
34	Current wind speed	4
35	Current wind direction	4
36	Yesterday's low barometric pressure value	4
37	Time of yesterday's low barometric pressure	4
38	Date of long term low barometric pressure	4
39	Long term low barometric pressure value	4
40	Time of long term low barometric pressure	4
41	Today's low indoor temp value	4
42	Time of today's low indoor temp	4
43	Yesterday' low indoor temp value	4
44	Time of yesterday's low temp	4
45	Date of long term low indoor temp	4
46	Long term low indoor temp value	4
47	Long term low indoor temp time	4
48	Today's low outdoor humidity value	4
49	Today's low outdoor humidity time	4
50	Yesterday's low outdoor humidity value	4
51	Yesterday's low outdoor humidity time	4
52	Long term low outdoor humidity date	4
53	Long term low outdoor humidity value	4
54	Long term low outdoor humidity time	4
55	Today's low indoor humidity value	4
56	Today's low indoor humidity time	4
57	Yesterday's low indoor humidity value	4
58	Yesterday's low indoor humidity time	4
59	Long term low indoor humidity date	4
60	Long term low indoor humidity value	4
61	Long term low indoor humidity time	4
62	Today's wind speed value	4
63	Today's wind speed time	4
64	Yesterday's wind speed value	4
65	Yesterday's wind speed time	4
66	Long term wind speed date	4
67	Long term wind speed value	4
68	Long term wind speed time	4
69	Today's high outdoor temp value	4
70	Today's high outdoor temp time	4
71	Wind speed	4
72	Current wind direction	4
73	Yesterday's high outdoor temp value	4
74	Yesterday's high outdoor temp time	4



\ \ \

---

## 738. GPS systems

From: loflin@mail.yamhillesd.k12.or.us (Jack Loflin)  
Date: Mon, 25 Dec 1995 23:42:49 -0800  
To: aprssig@tapr.org  
Message-ID: <v01540700ad055784739a@[198.237.200.232]>  
Rendered body type: text/plain

Hi all...

This is probably a little off topic...but...I would really like some information. Was wondering if any of you guys ordered your GPS systems from a place called Marine Electronics is Forked River, NJ. I found their site on the internet, but still a little shaky about buying stuff over the net...

73, Jack

---

## 739. Re: [APRSSIG:5515] Re: Gwyn address

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm>  
Date: Tue, 26 Dec 1995 12:32:20 +0000 (GMT)  
To: aprssig@tapr.org  
Cc: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951226122631.8406G-100000@paccomm>  
Rendered body type: text/plain

I've gotten a couple of messages like this over the holiday weekend.

We've changed from using TNOS under DOS to a LINUX system (and currently using PINE as a mailer) this past week. Possibly something has gone astray in the setup... the address xxx.csd.uwm.edu looks like something out of the PINE documentation, so it is probably an operator error here.

For the record, addresses:  
gwyn@paccomm.com  
paul@paccomm.com for Paul's personal hobby stuff  
pe@paccomm.com for tech support from Paul

Happy Holidays to all.  
Gwyn, W1BEL

On Sun, 24 Dec 1995, N4NR wrote:

```
> -> gwyn@paccomm.csd.uwm.edu
> -> gets returned as unknown.....
> ->
> -> Can you email me a better address?
>
> Try gwyn@paccomm.com
>
> Merry Christmas,
>
> Dennis - N4NR
> n4nr@vulcan.com
>
```

---

## 740. Re: [APRSSIG:5525] GPS systems

From: jkerns@usit.net (jim kerns)  
Date: Mon, 25 Dec 1995 20:24:53 -0500  
To: aprssig@tapr.org  
Message-ID: <199512261331.IAA04695@use.usit.net>  
Rendered body type: text/plain

>Hi all...

>

>This is probably a little off topic...but...I would really like some  
>information. Was wondering if any of you guys ordered your GPS systems  
>from a place called Marine Electronics is Forked River, NJ. I found their  
>site on the internet, but still a little shaky about buying stuff over the  
>net...

>

>73, Jack

>

Hap[py New Year, Jack:

You should have put their URL in your msg. so we could all check it out.



I bought a Garman 50 from them over a year ago. They are reliable.

73 Jim in Tn. N4PUQ>  
>  
>

---

#### 741. Re: This isnt about missiles or flames.

From: Larry Griffin <largriff@onramp.net>  
Date: Tue, 26 Dec 1995 07:20:18 -0600  
To: "'aprssig@tapr.org'" <aprssig@tapr.org>  
Message-ID: <01BAD363.E7A6C7C0@lub04.onramp.net>  
Rendered body type: text/plain

Sounds like you have a bad diode between the battery and the rest of the circuit.

-----  
From: KD4EMI@aol.com[SMTP:KD4EMI@aol.com]  
Sent: Monday, December 25, 1995 3:37 PM  
To: aprssig@tapr.org  
Subject: [APRSSIG:5521] This isnt about missiles or flames.

Here is an interesting thing I ran into . Think I should share it with the sig.

I run my KPC on battery mode usually when Im mobile.  
When the battery runs down, the xmit audio becomes unreadable and I know its time to change the 9v battery.

This has become a hassle as I usually am leaving the tracker on. Wired up the KPC to the car battery..Left the 9v battery in there.

Come to find out, when the 9V battery runs dead, even with external power applied, the TNC gets moody and xmit audio is garbled. Sure enough, take out the battery, (taped up the open 9V connector so it wont touch anything inside) and boom, the tnc works again. Therefore...if your having a problem, even when external power is applied, check the 9v battery.  
I duplicated this test with a dead 9v battery on my other kpc 3. Again, it did not work properly, even when external power was applied.

Now I operate without the battery and the lithium keeps the important data.  
73,  
Mike KD4EMI@ AOL.COM

---

#### 742. Domain Name

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>  
Date: Tue, 26 Dec 1995 13:40:31 +0000 (GMT)  
To: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951226133852.8810C-100000@paccomm>  
Rendered body type: text/plain

re: strange reply to address.  
It was the operator (me). Note the correct (gwyn@paccomm.com) now displayed. Third time is a charm!

---

#### 743. Re: [APRSSIG:5517] To all the Whiners . . .

From: Barry Leonard <jleonard@tbcnet.com>  
Date: Mon, 25 Dec 1995 09:06:11 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <Pine.LNX.3.91.951225085744.5068A-100000@tbc2.tbcnet.com>  
Rendered body type: text/plain

Those wondering about the purpose for, uses of, and history behind APRS are encouraged to read "README.1st" and "HISTORY.txt", along with several other documents that Bob, WB4APR, wrote, in the \README directory in the distribution program. These tell of many uses for the APRS system.

Happy Holidays

Barry Leonard/N9VJQ

---

#### 744. Re: [APRSSIG:5522] question and info

From: rwf <rwf@mindspring.com>  
Date: Tue, 26 Dec 1995 10:14:38 -0500  
To: aprssig@tapr.org  
Message-ID: <199512261514.KAA07201@borg.mindspring.com>  
Rendered body type: text/plain

If you do this, PLEASE devise a way to handle the routine test by the NWS. The rest of us (wherever we may be) may not be interested in knowing each time your local alert is tested. You'll probably need a somewhat accurate clock to disable your alert for a half hour or so around the time of the test by NWS. We're already getting enough false alarms as it is from other sources.  
Beeper idea is fine, though- as it doesn't bother anyone but your beeper list.

KD4EMI wrote (and I edited)

>There exists these small stamp sized "computers"  
SNIP  
>What modification to this basic idea would you suggest?

---

## 745. Re: [APRSSIG:5521] This isnt about missiles or flames.

From: Bill Northup <northup@sw.stratus.com>  
Date: Tue, 26 Dec 1995 11:34:35 -0500 (EST)  
To: aprssig@tapr.org  
Cc: aprssig@tapr.org  
Message-ID: <199512261634.LAA04324@blackdog.sw.stratus.com>  
Rendered body type: text/plain

>  
> Here is an interesting thing I ran into . Think I should share it  
> with the sig.  
> I run my KPC on battery mode usually when Im mobile.  
> When the battery runs down, the xmit audio becomes unreadable  
> and I know its time to change the 9v battery.  
>  
> This has become a hassle as I usually am leaving the tracker on.  
> Wired up the KPC to the car battery..Left the 9v battery in there.  
>  
> Come to find out, when the 9V battery runs dead, even with external  
> power applied, the TNC gets moody and xmit audio is garbled.  
> Sure enough, take out the battery, (taped up the open 9V connector  
> so it wont touch anything inside) and boom, the tnc works again.  
> Therefore...if your having a problem, even when external power is applied,  
> check the 9v battery.  
> I duplicated this test with a dead 9v battery on my other kpc 3. Again, it  
> did not work properly, even when external power was applied.  
>  
> Now I operate without the battery and the lithium keeps the important data.  
> 73,  
> Mike KD4EMI@ AOL.COM  
>  
>

Another thing to watch out for - I have seen several KPC-3's with failing batteries lockup the PTT line, turning on the transmitter and no audio.

--

Bill Northup	INTERNET:	northup@sw.stratus.com
Stratus Computer Inc.	Amateur Radio:	N1QPR
55 Fairbanks Boulevard		QRP-NE #307
Marlboro, MA 01752		NorCal #1027

---

## 746. Re: [APRSSIG:5457] Santa tracking Net

From: dwetzel@acs.uswest.com  
Date: Tue, 26 Dec 1995 09:46:17 -0600  
To: aprssig@tapr.org  
Message-ID: <0e01c6b0@acmspgw1.mnet.uswest.com>  
Rendered body type: text/plain

Having had our GATE in Salt Lake up on Christmas eve, I was pleased to see that Santa WAS tracked and visible on APRS. My children (9 and 11) were mesmerized, and spent a good portion of the evening running back into the shack to see where Santa was going. They didn't catch on to the fact that his position was fixed until right before bedtime - but it was a wonderful addition to our Christmas here. Whoever uplinked Santa to all of us, THANK YOU!

Happy New Year to all sig readers!

Doug  
KC7CO

---

Subject: [APRSSIG:5457] Santa tracking Net

From: aprssig@tapr.org at Internet-Mail  
Date: 12/21/95 12:57

Hello, all

I like Barry's idea of a Santa tracking net on APRS. I WOULD be a good way to show off APRS capabilities to the public, etc and have some fun at the same time. Also a good way to introduce kids to Amateur Radio. Coordination thru the SIG seems the best way to go. Someone just need to start uplinking the object and others can grab it and steer Santa to their neighborhood, hi-hi. Bob(APR), is it possible to use(or is there imbedded in APRS an appropriate symbol that we may not be aware of?

To Keith and Mark(MAC/Win APRS): Are MACAPRS and/or WinAPRS using true .ico files to display symbols on the maps? And if so can a user tehn create his own .ico to assign to a symbol or add to the symbol list? This would allow users to have a little creativity and personality in their copy of the program and allow custom symbols to be generated for special events, etc.

Happy Holidays to all, and to all a good night.

73, Bob

NNNN

---

### 747. 6m

From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Date: Tue, 26 Dec 95 12:21:05 EST  
To: aprssig@tapr.org  
Message-ID: <9512261721.AA26983@abaco.coastalnet.com>  
Rendered body type: text/plain

hearing a lot of E's past few days, am running 120w using the aprs meteor scatter mode beaming SW. on all day into the late evening today and tomorrow.

would like to see many stations on the map! qrx on 50.620.....

73's.....david

---

### 748. Listserv Suggestions

From: JeffS5@aol.com  
Date: Tue, 26 Dec 1995 12:53:56 -0500  
To: aprssig@tapr.org  
Message-ID: <951226125356\_24027965@emout06.mail.aol.com>  
Rendered body type: text/plain

I wasn't aware of Digest either. Whatever stops all the complainers eh?

Thanks, Jeff - WA6EQU

---

### 749. Re: [APRSSIG:5532] Re: Low Power XMIT Lockup

From: sparkfel@primenet.com (Mark Fellhauer)  
Date: Tue, 26 Dec 1995 11:16:01 -0700 (MST)  
To: aprssig@tapr.org, aprssig@tapr.org  
Message-ID: <199512261816.LAA24145@usr3.primenet.com>  
Rendered body type: text/plain

At 10:50 AM 12/26/95 -0600, Bill Northup wrote:

>>

>

>Another thing to watch out for - I have seen several KPC-3's with failing  
>batteries lockup the PTT line, turning on the transmitter and no audio.

>

This is not uncommon to a number of TNC's. Our Club's ancient PK-80 will lock in transmit mode if voltage (or amperage) drops below a certain threshold. This is very apparent when running the unit off the same power supply as the transceiver.

I've also seen incidents where power surges caused by lightning strikes have locked the PTT of TNC's, either through the TNC OR the radio.

73

Mark Fellhauer  
KC7BXS  
ThunderBird ARC Packet Coordinator

---

## 750. Re: [APRSSIG:5520] Use of APRS at National Weather Service sites

From: BenWS5R@aol.com  
Date: Tue, 26 Dec 1995 18:15:43 -0500  
To: aprssig@tapr.org  
Message-ID: <951226181542\_99579545@emout06.mail.aol.com>  
Rendered body type: text/plain

John,  
How about a quick synopsis of how you are doing it! We basically have the same responsibility here in the Texas Panhandle with 29 counties. I have been told we have a direct link into AFOS when we are ready. We will probably go with a TexNet system, but are still looking at other ideas. So basically how are you getting info into APRS is my big question.

Thanks in Advance and 73 Ben WS5R Potter County ARES EC DM95cf

---

## 751. 6 meters is open

From: Bob Wilkins n6fri <rwilkins@uhf.org>  
Date: Tue, 26 Dec 1995 15:34:56 -0800 (PST)  
To: aprs sig <aprssig@tapr.org>  
Message-ID: <Pine.SUN.3.91.951226153203.17774B-100000@ccnet3>  
Rendered body type: text/plain

Bob Wilkins	home	n6fri@uhf.org
Berkeley, California	work	bwilkins@cave.org
94712-2354	play	n6fri@n6eeg.#nocal.ca.usa.noam

SIX meters is now wide open!

----- Forwarded message -----  
Date: Tue, 26 Dec 95 12:21:14 EST  
From: David M. Gaytko / WD4KPD <cn2859@abaco.coastalnet.com>  
To: vhf@w6yx.stanford.edu  
Subject: 6m

hearing a lot of E's past few days, am running 120w using the aprs meteor scatter mode beaming SW. on all day into the late evening today and tomorrow.

would like to see many stations on the map! qrx on 50.620.....

73's.....david

---

## 752. 6m/paket

From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Date: Tue, 26 Dec 95 20:46:18 EST  
To: aprssig@tapr.org  
Message-ID: <9512270146.AA22840@abaco.coastalnet.com>  
Rendered body type: text/plain

had very good connections this pm with wa9vrh in en50.

freq 50.61 fm afsk paket 1200b.

surley would like to see some other stations with the e's we been having.

will be qrx on 50.62 all day/eve next two days.

73's.....david

---

## 753. 6m/paket

From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Date: Tue, 26 Dec 95 22:23:46 EST  
To: aprssig@tapr.org  
Message-ID: <9512270323.AB03131@abaco.coastalnet.com>  
Rendered body type: text/plain

printing midwest stations on paket, pse connect!

50.61 or .62

de wd4kpd in fm15mm

---

## 754. Re: [APRSSIG:5537] Re: Use of APRS at National Weather Service sites

From: KD4EMI@aol.com  
Date: Tue, 26 Dec 1995 22:51:55 -0500

To: aprssig@tapr.org  
Message-ID: <951226225154\_99760191@mail02.mail.aol.com>  
Rendered body type: text/plain

John,  
How about a quick synopsis of how you are doing it! We basically have the same responsibility here in the Texas Panhandle with 29 counties. I have been told we have a direct link into AFOS when we are ready. We will probably go with a TexNet system, but are still looking at other ideas. So basically how are you getting info into APRS is my big question.

I think your talkin to me abt this.  
quick synopsis is in next msg.

---

## 755. Re: [APRSSIG:5539] 6m/paket

From: KD4EMI@aol.com  
Date: Tue, 26 Dec 1995 22:52:10 -0500  
To: aprssig@tapr.org  
Message-ID: <951226225209\_99760397@emout06.mail.aol.com>  
Rendered body type: text/plain

I am going to try some 6m packet.  
I am in EL96wf  
Let me know!

---

## 756. How the Wx alert could work

From: KD4EMI@aol.com  
Date: Tue, 26 Dec 1995 22:52:14 -0500  
To: aprssig@tapr.org  
Cc: DM0BLEY@encore.com, 0004818186@mcimail.com  
Message-ID: <951226225213\_99760438@mail04.mail.aol.com>  
Rendered body type: text/plain

I was really supriised at the volume of mail that I received about the aprs wx alert idea. In less than 24 hours I have rec'd 30 messages, private and on the sig about it.

The following is the BASIC idea of what I am thinking. Any comments are not only invited but appreciated. Lets see how we can make this a common goal and I would like to try to get this on line and operating in a way that everyone could use. Heck it might actually save someones life !

Here is the idea....

Postage stamp computers are delightfull little devices that have I/O ports and xmit data in various formats. They can also generate DTMF tones, as well as count cycles and a zillion other little a/d conversion applications.

Simply interface a programmed stamp to the AUDIO output of a wx alert radio. The beep goes off indicating a wx alert. The stamp detects this. The stamp sends data to the tnc, reprogramming it with the already preprogrammed wx beacon. This beacon of course is going to be compatable with the aprs wx beacon format. The tnc sends out the wx alert data. Joe Ham down the street, who is on aprs copies the wx alert and this sets off his alarm on his aprs program. (maybe a better way is to have Bob write a special code to just alert stations that nws wx alarm is active)

Anyway, if your within a certain radius of my (the wx station) station, your alarm goes off also. Further, the DTMF capability of the system allows for beeper paging as well. This system does not decode wx alert specifics, but just alerts aprs users that a wx alert (within a certain radius) has been activated. NWS also tests the wx alert system and this can be detected by the clock on the stamp and a false alarm would not be sent. The test alert is at the same time every day (I will confirm this though) The system wont say...TORNADO COMING or HURRICANE COMING. But will say...HEY GUYS..wake up, somethings going on that you better investigate. This is the basic idea. Now, lets make it better! Give me feedback, lets throw it around, and I will change and modify based on your comments. I hope Ive explained it well enough, if not, just let me know.

One idea I just though of while typing this follows...

There are devices that shut off computers when they detect the EMI (har) spikes of lightning. I could tailor a chip (<\$50.00) that says, LIGHTNING WARNING...INCOMING THUNDERSTORM (great for S FL). This would be broadcast over the aprs local net. There is an idea ! !

I digress...  
Mike  
KD4EMI@AOL.COM

---

## 757. 6 is open

From: BenWS5R@aol.com  
Date: Tue, 26 Dec 1995 23:54:38 -0500  
To: aprssig@tapr.org  
Message-ID: <951226235438\_99801927@mail06.mail.aol.com>  
Rendered body type: text/plain

Have been putting out packets beaming NE on 50.620.

Have heard noting but did connect to NX9V-6 node in WIS from NW TEX.

Still listening on 6m.

QRZ 6 Ben WS5R DM95cf

---

## 758. Re: [APRSSIG:5482] Re: APRTRAK and 73 article!

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 27 Dec 1995 00:19:40 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951227001905.5319B-100000@greatlakes>  
Rendered body type: text/plain

OOPS, you sent it to ARRL HQ. It is 73 magazine that is doing the special edition! hi hi

WB4APR REPLY COMMENT:

---

## 759. WX alert

From: Paul Moller <Paul\_Moller@csg.mot.com>  
Date: Wed, 27 Dec 1995 08:44:53 -0600  
To: aprssig@tapr.org  
Message-ID: <2.2b10.32.19951227144453.006f821c@144.188.134.33>  
Rendered body type: text/plain

>The tnc sends out the wx  
>alert data. Joe ham down the street, who is on aprs copies the wx alert  
>and this sets off his alarm on his aprs program.

I may be incorrect in this statement, and please let me know if I am!!! BUT...

I believe it is illegal to allow a NOAA or other NON hams to generate a ham transmission. I know this was gone thru a few years ago with the NOAA broadcasts being connected to local repeaters. Note that you don't see it today with voice repeaters, and I think the reason is that the FCC has deemed this not legal. Sorry.

Paul, WD9ABE  
Maybe closer to GLNTC than anybody (5 miles)

---

## 760. Re: [APRSSIG:5543] How the Wx alert could work

From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>  
Date: Wed, 27 Dec 1995 11:54:20 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <199512271754.LAA04926@crasher2.ttgciitn.com>  
Rendered body type: text/plain

Thus spake KD4EMI@aol.com, splattered hither:  
> activated. NWS also tests the wx alert system and this can be detected by  
> the clock on the stamp and a false alarm would not be sent. The test

Sure that's a good idea? It would make a good test of the system. Also, I don't think they test WX alert every day here, but I may be wrong. I think the NWS postpones/cancels tests if weather conditions are threatening, which might mean that it would filter out a truly valid alarm.

A false alarm is better than no alarm at all in my opinion :-)

--  
Ryan Tucker  
rtucker@ttgciitn.com  
http://www.ttgciitn.com

ttgciitn.com owner  
ann-arbor.mi.us.undernet.org irc admin  
netins.net user development group

---

## 761. Another KPC-3 problem

From: Bill Northup <northup@sw.stratus.com>  
Date: Wed, 27 Dec 1995 16:28:56 -0500 (EST)  
To: aprssig@tapr.org (Mail-list APRS)  
Message-ID: <199512272128.QAA04666@blackdog.sw.stratus.com>  
Rendered body type: text/plain

Last night I found another problem with the KPC-3 and was wondering if anyone else has seen it. I have been trying to call Kantronics but they are not answering their phone.

I am using the TCN is GPS mode tied to a garman45 gps.

The problem: The TNC started sending the same LT line continuously. In doesn't drop TX - it just sends the same line over and over. I saw what had happened and turned it off prior to reaching the watchdog time. I also know the signal was good because when I turned off the TNC I could hear other stations repeating it.

Has anyone else seen this ?

Bill

--

Bill Northup	INTERNET:	northup@sw.stratus.com
Stratus Computer Inc.	Amateur Radio:	N1QPR
55 Fairbanks Boulevard		QRP-NE #307
Marlboro, MA 01752		NorCal #1027

---

## 762. Re: [APRSSIG:5546] WX alert

From: Bob Wilkins n6fri <rwilkins@uhf.org>  
Date: Wed, 27 Dec 1995 14:22:26 -0800 (PST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951227135155.21884A-100000@ccnet3>  
Rendered body type: text/plain

On Wed, 27 Dec 1995, Paul Moller wrote:

> I believe it is illegal to allow a NOAA or other NON hams to generate a ham  
> transmission. I know this was gone thru a few years ago with the NOAA  
> broadcasts being connected to local repeaters. Note that you don't see it  
> today with voice repeaters, and I think the reason is that the FCC has  
> deemed this not legal. Sorry.

This maybe a gray area. The previous discussion of rules related to voice repeaters directly repeating an other radio service, the weather broadcasts.

The amateur digital station should be able to parse the data or tone alerts sent out by the noaa weather service and under his firmware or software control send it out in a new form to amateur stations.

Amateur digital stations should be cautioned against broadcasting this information to the general public.

Many amateur digital and voice stations under automatic control have alarm functions that are transmitted when a sensor is activated.

I see way too many BLN s sent out that are not of interest to amateurs on APRS. One Way Bulletins must be of interest to the Amateur Service. Any thing else is broadcasting. I am sure to see " BLN1 Way to Go 49ers! SuperBowl Winners! ". Broadcasting the results of football games is not legal as a one way transmission.

Bob n6fri

Bob Wilkins	home	n6fri@uhf.org
Berkeley, California	work	bwilkins@cave.org
94712-2354	play	n6fri@n6eeg.#nocal.ca.usa.noam

---

## 763. Re: [APRSSIG:5546] WX alert

From: "Sam Nabkey" <snabkey@wingsbbs.com>  
Date: Wed, 27 Dec 1995 17:27:03 -0500  
To: aprssig@tapr.org  
Message-ID: <199512272227.QAA19499@sys1.tapr.org>  
Rendered body type: text/plain

On 27 Dec 95 at 8:59, Paul Moller wrote:

Stuff deleted:

>  
> I may be incorrect in this statement, and please let me know if I am!!! BUT....  
>  
> I believe it is illegal to allow a NOAA or other NON hams to generate a ham  
> transmission. I know this was gone thru a few years ago with the NOAA  
> broadcasts being connected to local repeaters. Note that you don't see it  
> today with voice repeaters, and I think the reason is that the FCC has  
> deemed this not legal. Sorry.  
>  
> Paul, WD9ABE  
> Maybe closer to GLNTC than anybody (5 miles)  
>  
>

Gee, I HOPE not or the NOAA Weather monitor that triggered our  
Repeater and put the thing in the "Blue Sky Weather Mode" probably  
was running "unproper" for about 15 years.

Seems the FCC Monitoring Station 30 Miles from our System would have  
sent us a greeting message telling us to stop.

Hmmm.

---

Samuel T. Nabkey - WJ8T

{snabkey@wingsbbs.com}

---

## 764. 6M APRS Actiivty...

From: n2czf@gate.net  
Date: Wed, 27 Dec 1995 17:57:50 -0500  
To: aprssig@tapr.org  
Message-ID: <199512272257.RAA26374@osceola.gate.net>  
Rendered body type: text/plain

I have a 150W commercial Uniden radio here that I have programed up (36ch) with  
50.62. I have the programer for the night (Wed) and it is diffiiclt for me to  
get hold of it very often. My problem with 50.62 is that it is so low in the  
band (SSB portion) that this radio (and many others) will not allow the PLL to  
lock up so far away from the regular FM portion.

I will be able to go that low if and only if I can find someone with the  
modification procedures to make this radio SUPER WIDE BAND. I know that they are  
out there but no one I know in the 2-Way industry has the file. It involves  
changing some diodes capacitors, and rework of some air coils but I do not have  
the specific part numbers.

If anyone else is having this problem with narrow cut LB radios and no one else  
objects can we move up higher in the band like some of the oddball simplex  
frequencies in the 52 or 53 MHz band ? 53.00 53.52 are two off the wall simplex  
frequencies listed in the ARRL Diirectory.

73's De Rich N2CZF  
n2czf@gate.net  
Jupiter Farms Florida

---

## 765. APRS Gateways

From: Tom & Linda MacKay <mackay@lr.net>  
Date: Wed, 27 Dec 1995 19:37:51 -0500  
To: aprssig@tapr.org  
Message-ID: <9512280044.AA12742@mail1>  
Rendered body type: text/plain

We will be taking a trip from New Hampshire to Florida in February, and I  
would like to know if there is a published list of gateway calls. I know the  
one in NH is NR1N-2 but are there others in the rest of the states.

Thank you Tom N1HQB

---

## 766. Re: Another KPC-3 Problem

From: Larry Griffin <largriff@onramp.net>  
Date: Wed, 27 Dec 1995 19:31:50 -0600  
To: "aprssig@tapr.org" <aprssig@tapr.org>  
Message-ID: <01BAD492.43BA3360@lub06.onramp.net>  
Rendered body type: text/plain



I saw the same thing once right after I first got my KPC-3 and was trying to get it setup. It kept repeating the same line continuously. Even after turning it off and back on, it kept repeating! I had to open it and do a cold reset. I never knew exactly why it happened; it was while I was in the middle of setting parameters, but it hasn't happened since. Did make me kind of nervous for awhile though.

Larry Griffin <largriff@onramp.net>  
-----

On Dec 27 Bill wrote:

Last night I found another problem with the KPC-3 and was wondering if anyone else has seen it. I have been trying to call Kantronics but they are not answering their phone.

I am using the TCN is GPS mode tied to a garman45 gps.

The problem: The TNC started sending the same LT line continuously. In doesn't drop TX - it just sends the same line over and over. I saw what had happened and turned it off prior to reaching the watchdog time. I also know the signal was good because when I turned off the TNC I could hear other stations repeating it.

Has anyone else seen this ?

Bill

---

## 767. Re: [APRSSIG:5546] WX alert

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Thu, 28 Dec 1995 01:42:34 +0000 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951228013814.11081A-100000@pinegov>  
Rendered body type: text/plain

On Wed, 27 Dec 1995, Paul Moller wrote:

> >The tnc sends out the wx  
> >alert data. Joe ham down the street, who is on aprs copies the wx alert  
> >and this sets off his alarm on his aprs program.  
>  
> I may be incorrect in this statement, and please let me know if I am!!! BUT....  
>  
> I believe it is illegal to allow a NOAA or other NON hams to generate a ham  
> transmission. I know this was gone thru a few years ago with the NOAA  
> broadcasts being connected to local repeaters. Note that you don't see it  
> today with voice repeaters, and I think the reason is that the FCC has  
> deemed this not legal. Sorry.  
>  
> Paul, WD9ABE  
> Maybe closer to GLNTC than anybody (5 miles)  
>  
>

Not correct as far as I know....there are two and only two products from broadcast stations that can be retransmitted on Ham freqs by qualified control operators....retransmission of Shuttle audio and retransmission of NOAA Weather ...provided that the retransmission is not continuous...ie, you cannot hook the audio of NOAA into a ham VHF transmitter and let it run 24 hours a day that way...but you can retransmit warnings...we have one repeater hear that has a NOAA WX Alert radio patched into the repeater, when the tone sounds, the audio locks on for two minutes, allowing for the bulletin, then shuts off....

BTW..this is also the same regulation that allows for retransmission of AFOS text bulletins on packet in real time, which we have also been doing here for some time from the local EM office.

73 de KD4UYR  
Skywarn Coordinator  
Pinellas County, FLorida and  
Seminole Florida APRS GATEway

---

## 768. Re: [APRSSIG:5548] Another KPC-3 problem

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Thu, 28 Dec 1995 01:48:17 +0000 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951228014509.11081B-100000@pinegov>  
Rendered body type: text/plain

On Wed, 27 Dec 1995, Bill Northup wrote:

```

>
> Last night I found another problem with the KPC-3 and was wondering
> if anyone else has seen it. I have been trying to call Kantronics but
> they are not answering their phone.
>
> I am using the TCN is GPS mode tied to a garman45 gps.
>
> The problem: The TNC started sending the same LT line continuously.
> In doesn't drop TX - it just sends the same line over and over. I saw
> what had happened and turned it off prior to reaching the watchdog
> time. I also know the signal was good because when I turned off the
> TNC I could hear other stations repeating it.
>
> Has anyone else seen this ?
>
> Bill
>
> --
>
> Bill Northup          INTERNET: northup@sw.stratus.com
> Stratus Computer Inc.  Amateur Radio: N1QPR
> 55 Fairbanks Boulevard QRP-NE #307
> Marlboro, MA 01752      NorCal #1027
>
>
> Bill...I would recommend you check your BLT setting on the slotted
> beacons for the GPS data...you may have accidentally set them at every
> second...be careful using the term every such as:
>
> BLT 1 EVERY 00:00:01 means transmit every second
>
> Thats the only thing I can think of that would cause such a problem....
>
> Good Luck,
>
> de Kevin KD4UYR
>

```

## 769. Oh OH....

```

From: KD4EMI@aol.com
Date: Wed, 27 Dec 1995 21:27:03 -0500
To: aprssig@tapr.org
Message-ID: <951227212701_100430610@mail06.mail.aol.com>
Rendered body type: text/plain

```

Well I asked for comments and I got 'em.

Several wrote the following comments and I have commented on the comments below the comments (are you still with me?) (I am sorry for the size of the message but these comments are important to summarize:

Comment #1 sent to me stated:

-----

<SNIP>

I may be incorrect in this statement, and please let me know if I am!!! BUT....

I believe it is illegal to allow a NOAA or other NON hams to generate a ham transmission. I know this was gone thru a few years ago with the NOAA broadcasts being connected to local repeaters. Note that you don't see it today with voice repeaters, and I think the reason is that the FCC has deemed this not legal. Sorry.

(gee we do this here ! we get wx alerts on the repeater!)

-----

and another stated:

Hi Mike this has been done in the past with several articles in 73 and QST (many years ago) explaining the hard circuit, never as a PIC as you suggest. I think the idea is WONDERFUL but there is one problem...one that none of us can answer and the reason that the discrete circuits never became popular, the LAW! Seems that many complained that this was control of an amateur transmitter by non licensed amateurs, well I am sorry to say that I tend to agree with the past

comments many years ago. The idea is great but those "-----" did have a point, unless the FCC has made a waiver, or will, think the PIC idea will be violating the law as was pointed out years ago.

Now if a few stations did it and no one complained I think you could "get away" with it, but if it becomes popular like it could very well become (it is a great idea) I would worry. If you draw attention to yourself (like getting a lot of

APRS users doing the same thing) they will (FCC) wake up and take notice and you may not want the wrath of the FCC coming down on you for such a noble idea.

Call the ARRL Legal Department, or maybe even the FCC and ask for their opinion before you go too far and get disappointed. You may be lucky and they laws may have been changed since to allow this type of operation.

-----  
And yet another stated:

This maybe a gray area. The previous discussion of rules related to voice repeaters directly repeating an other radio service, the weather broadcasts.

The amateur digital station should be able to parse the data or tone alerts sent out by the noaa weather service and under his firmware or software control send it out in a new form to amateur stations.

Amateur digital stations should be cautioned against broadcasting this information to the general public.

Many amateur digital and voice stations under automatic control have alarm functions that are transmitted when a sensor is activated.

( I like this guy ! )

-----  
Now my turn:

I am concerned about the issues raised in these comments.  
As every good amateur has a FCC rule book, I will refer to my latest edition ARRL publication "THE FCC RULE BOOK" and I quote:

Chapter 7-2

(again this is verbatim)  
" You may, however, retransmit NOAA wx broadcasts, propagation bulletins originated by US government stations, and space shuttle communications (with NASA OKAY) as an incident to normal amateur activity."  
Chapter 7-5

QUTOED  
"Radio amateurs may only retransmit signals originating in the Amateur radio service, EXCEPT IN CASES OF EMERGENCY OR COMMUNICATIONS on NASA" <SNIP>  
<SNIP>  
and NOAA wx and governmental propagation bulletins.  
Such transmissions must be limited to an occasional basis"

I wont be ( LOOK AT THE KEYWORD) RETRANSMITTING  
NOAA. My sensor will activated at a NOAA alert and XMIT a beacon.  
Further.  
The transmissions are occasional. Im not constantly retransmitting the NOAA wx station like a repeater ! It is occasionally xmitting a packet beacon, activated by a sensor.

Frankly I was pleased at the pleasant and conscientious way that those hams alerted us to a potential problem and how this didnt get into a flame war. Well done gentleman...  
Id like to thank those who expressed their concerns.  
NOW, LETS GET BACK TO THE BENCH AND BACK TO WORK !!  
Please continue to ponder the comments on the SIG and lets keep it the momentum moving forward....

73 Mike KD4EMI@AOL.COM

## 770. Re: [APRSSIG:5518] Re: To all the Whiners . . .

From: Mickey Espsoito <mickey@intellinet.com>  
Date: Wed, 27 Dec 1995 20:40:15 -0600  
To: aprssig@tapr.org  
Message-ID: <30E2038F.74D8@intellinet.com>  
Rendered body type: text/plain

Greg Jones wrote:

>  
> >  
> > For those who complain that they're paying for each E-Mail message they  
> > receive, I suggest you look around at changing servers. There are PLENTY who  
> > charge flat rate for their services. AOL is one if you prefer the giant  
> > servers, and Earthlink is another as a WWW provider. Those that can't get  
> > local phone access and are paying LD charges, buy a faster modem!  
> >  
>  
> If you are paying by the message -- you can put any TAPR SIG mailing group  
> into what is called digest mode.  
>  
> Send e-mail to listserv@tapr.org  
>  
> in the body of the message say  
>  
> set aprssig digest  
>  
> This will cause one message a day to be sent containing all the messages  
> from the sig that day.  
>  
> Maybe this will help.  
>  
> If you are not familiar with how Internet lists work, what has been  
> happening on APRS SIG with diverse topics happening at the same time -- this  
> is pretty normal. Just press delete if you read something you don't like  
> and keep an eye on the subject line.  
>  
> Merry Xmas and Happy Holidays!  
>  
> GregHere in Arkansas, and I assume elsewhere, the Bells are offering calling  
services which wenable you to dial any one numebr in your calling  
"latta" for a fee of \$15 a month; 1 time or 1000 times or hours.Now,  
with internet service getting competetive, we have rates like \$19.95  
plus the \$15 outside our community but fortunately reaching 100 miles in  
Little Rock to an internet provider-total, unlimited time and phone call  
\$34.95. Sure beats AOL and their so called 5 free hours, 9.95 basic  
charge, @5 hr for their 800 number (going up too!)- 5 hrs. to them, only  
5=\$34.95..forget it folks, check out what the Baby Bells are offering!  
mickey@intellinet.com ( our town of 9k has local access!)

---

## 771. Re: [APRSSIG:5552] APRS Gateways

From: W2H0B@aol.com  
Date: Wed, 27 Dec 1995 22:39:56 -0500  
To: aprssig@tapr.org  
Message-ID: <951227223955\_25299372@emout04.mail.aol.com>  
Rendered body type: text/plain

To the station looking for GATEWAYS for a NH to ?? trip:

Mark, W02J, runs a multimode station which includes U-II, MAC, &  
a GATE on 145.79-MHz from Readington NJ (Hunterdon Co) which  
is just a tad bit NE of Flemington NJ. I think his GATE is on the  
"standard 10.151" and does a mighty fine job of letting the rest of  
us down here in South Jersey see what's happening in the rest of  
the USA. I think its IDENT is W02J-1. His location is on the maps!

73 de Boyd (w2hob@aol.com)

---

## 772. Re: [APRSSIG:5541] Re: Use of APRS at National Weather Service sites

From: ndavis@spider.lloyd.com (Norman Davis)  
Date: Wed, 27 Dec 1995 19:36:20 +0000  
To: aprssig@tapr.org  
Message-ID: <m0tV9EL-000TrnC@spider.lloyd.com>  
Rendered body type: text/plain

>. I have been  
>told we have a direct link into AFOS when we are ready.

If you have web access, you have AFOS access.

Try <http://www.nhc.noaa.gov>

Norman Davis WB6SHI

Email [ndavis@spider.lloyd.com](mailto:ndavis@spider.lloyd.com)  
72057,1722@compuserve.com  
I love Hot cars, Planes and  
Trains.  
Basically anything that moves.

---

### 773. Re: [APRSSIG:5548] Another KPC-3 problem

From: [baded@nacs.net](mailto:baded@nacs.net) (Doug Bade)  
Date: Wed, 27 Dec 1995 23:10:49 -0500  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <199512280414.XAA10969@nacs.net>  
Rendered body type: text/plain

>  
> Last night I found another problem with the KPC-3 and was wondering  
> if anyone else has seen it. I have been trying to call Kantronics > Bill  
>  
>--  
>  
> Bill Northup                   INTERNET:     northup@sw.stratus.com  
> Stratus Computer Inc.       Amateur Radio: N1QPR  
> 55 Fairbanks Boulevard       QRP-NE #307  
> Marlboro, MA 01752           NorCal #1027  
>  
>  
>Bill, we have several units in the Cleveland Ohio area doing this same  
thing on a regular if not daily basis. seems to be triggered at 00:00 z if my  
memory serves me correctly. Three of us here have Garmin 45's tied to  
KPC-3 units as you do. The timing on intervals did not seem to make a  
difference. I will get back into it if someone else has any Idea's but we  
gave up... We have our beacons staggered at 2-3 min intervals for mobile  
tracking, and one will do long tx as you say, as soon as it is done, another  
will start and repeat the process as fast as the digipeater clears.  
We set for sometimes one interval, sometimes 2 intervals with  
different digi paths. At present, we have the units set up as APRS inits.  
so that we can plug and unplug the computer at will, without upsetting  
normal veh broadcast mode. In this mode APRS doesn't tx, but does rx, and  
places position on map from digi echo. We do have all of our beacon  
intervals ref 00:00z may have something to do with it but does seem to be a  
kpc-3 glitch. GPS talks to TNC all the time without recabling. We gave up  
solving prob over hear but maybe someone can help. I can provide alot more  
absolute setting data, but most is out of KPC-3 book or APRS docs.  
Lets see who else responds.... 73... Doug KB8GVQ  
baded@nacs.net  
packet kb8gvq@kb8gvq.#neoh.oh.usa.na

---

### 774. Re: [APRSSIG:5558] Re: APRS Gateways

From: Richard Amirault <[amirault@laraby.tiac.net](mailto:amirault@laraby.tiac.net)>  
Date: Thu, 28 Dec 1995 00:02:11 -0500 (EST)  
To: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <Pine.BSF.3.91.951227235608.23736D-100000@laraby.tiac.net>  
Rendered body type: text/plain

On Wed, 27 Dec 1995 W2HOB@aol.com wrote:

>  
> To the station looking for GATEWAYS for a NH to ?? trip:  
>  
> Mark, W02J, runs a multimode station which includes U-II, MAC, &  
> a GATE on 145.79-MHz from Readington NJ (Hunterdon Co) which  
> is just a tad bit NE of Flemington NJ. I think his GATE is on the  
> "standard 10.151" and does a mighty fine job of letting the rest of  
> us down here in South Jersey see what's happening in the rest of  
> the USA. I think its IDENT is W02J-1. His location is on the maps!  
>  
-----

I saw the original message, but did not reply....but...

I don't understand! Why would you want to know where the GATE stns are?  
If you are near one (and something comes thru) you'll hear it! A GATE, by  
definition, has an alias of GATE, so you don't need to know its call.

Richard Amirault                   N1JDU                   Boston, Massachusetts USA  
[amirault@tiac.net](mailto:amirault@tiac.net)                   "Go Fly A Kite"

---

## 775. Re: [APRSSIG:5517] To all the Whiners . . .

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>  
Date: Thu, 28 Dec 1995 00:49:08 -0800 (PST)  
To: aprssig@tapr.org  
Message-ID: <Pine.HPP.3.91.951228004600.3949A-100000@abyss.ecst.csuchico.edu>  
Rendered body type: text/plain

On Sun, 24 Dec 1995 JeffS5@aol.com wrote:

> I have sat here for 2 weeks listening to all the complaining about who thinks  
> what's important to this SIG (in their opinion). This SIG was founded on  
> APRS. APRS was founded BECAUSE of GPS. GPS was founded in part to get missiles  
> home and on-time. Is this related to APRS? Yes! There is NO ONE on this SIG  
> that's not interested or fascinated by the concept of GPS, how it works, and  
> why. GPS is the basic building block of APRS and this SIG. There are  
> newcomers to GPS, APRS, & this SIG constantly signing-on that really don't  
> have a clue how things work, or why. IT'S THESE PEOPLE WHO ARE GONA MAKE APRS  
> FLY IN THE AMATEUR WORLD FOLKS! If Gerry wants to give the long version of  
> how GPS works on missiles, let him! He is, by far more qualified to speak than  
> most who are here. Frankly I enjoyed it!  
>  
> For those who complain that they're paying for each E-Mail message they  
> receive, I suggest you look around at changing servers. There are PLENTY who  
> charge flat rate for their services. AOL is one if you prefer the giant  
> servers, and Earthlink is another as a WWW provider. Those that can't get  
> local phone access and are paying LD charges, buy a faster modem!  
>  
> Bottom Line: QUIT COMPLAINING for cryin' out loud!  
>  
> There's no need to fwd your opinions about who sent what to where and whether  
> or not YOU deem it fit for APRS. If you can't resist complaining, send it  
> direct, but quit complaining to the SIG. We're not interested!  
>  
> Can't stand it anymore and HAVE to sign-off?: 73 & SEE YA!  
>  
> I hope you who are doing the whining are just about thru cause I'm getting  
> tired of mass deletes.  
>  
>  
> Happy Holidays,  
>  
> Jeff - WA6EQU  
>  
>

KEEP YOUR DELETE KEY POLISHED BECAUSE I THINK YOU MAYBE USING IT. WE HAVE  
THE RIGHT TO COMPLAIN JUST LIKE YOU HAVE THE RIGHT TO DO WHAT YOU JUST DID,  
"WHIN".....

IT BECOMES VERY TIRING TO READ THE SAME THING OVER AND OVER AND OVER AGAIN  
DAY AFTER DAY. PLEASE ADDRESS THE RESPONSES TO THOSE WHO WISH THE RESPONSE.  
THAT WILL TAKE CARE OF MOST OF THE PROBLEM. THIS IS DESTINE FOR WIDE  
DISTRIBUTION FOR A REASON, AND YES I AM YELLING...

SINCERLY

BRAD AMBERS

---

## 776. Eagle ACCUNAV SPORT GPS

From: Bradley Lee Ambers <brad@ecst.csuchico.edu>  
Date: Thu, 28 Dec 1995 00:56:08 -0800 (PST)  
To: APRSSIG <aprssig@tapr.org>  
Message-ID: <Pine.HPP.3.91.951228005248.3949B-100000@abyss.ecst.csuchico.edu>  
Rendered body type: text/plain

I just received a new Eagle ACCUNAV Sport GPS unit for Christmas. I have  
one question so far, which is, What is the max SOG (speed over ground)  
that this unit will track. I know the Magellan will do around 950 miles  
per hour. Thank you for you help in advance and I am sure I will have more  
when it comes to hooking the unit up to one of the KPC-3 TNC's I have.

73 all

Brad

---

## 777. KPC-3 Problems

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>  
Date: Thu, 28 Dec 1995 06:02:37 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.3.07.9512280637.A18189-9100000@acme>  
Rendered body type: text/plain

Kantronics service can be reached via e-mail at:

servivce@kantronics.com

Be sure to include your product ID - software version (as it appears when you power the unit up) - and both your e-mail and postal mail address.

Be sure to detail the problem (if it happens at a certain time with a GPS (type of GPS, etc.) connected.

73s de Joe W8RIK

---

## 778. Re: [APRSSIG:5552] APRS Gateways

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Thu, 28 Dec 1995 11:50:44 +0000 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951228114605.13317A-100000@pinegov>  
Rendered body type: text/plain

On Wed, 27 Dec 1995, Tom & Linda MacKay wrote:

> We will be taking a trip from New Hampshire to Florida in February, and I  
> would like to know if there is a published list of gateway calls. I know the  
> one in NH is NR1N-2 but are there others in the rest of the states.

>  
> Thank you Tom N1HQF

>  
>  
In Florida:

St. Petersburg: KD4UYR  
Lakeland : WB90ML  
West Palm Bch : N2CZF

However, Tom, addressing a packet to the callsign will NOT result in passing the traffic through the gate. VHF Mobile stations may place GATE,GATE,WIDE in their unproto path to ensure transmission back to their home base. The totally generic (mobile only) path for GPS reporting mobile stations is: RELAY,WIDE,GATE,GATE,WIDE...

73 and I hope it warms up for you by the time you get here

Kevin Heyboer KD4UYR in Seminole, Florida where it is 44 degrees with a North wind at 2.

---

## 779. Bulletins on HF

From: rwf <rwf@mindspring.com>  
Date: Thu, 28 Dec 1995 10:09:17 -0500  
To: aprssig@tapr.org  
Message-ID: <199512281509.KAA15924@borg.mindspring.com>  
Rendered body type: text/plain

At 04:31 PM 12/27/95 -0600, Bob Wilkins wrote:

(short excerpt below)

>I see way too many BLN s sent out that are not of interest to amateurs on  
>APRS. One Way Bulletins must be of interest to the Amateur Service. Any  
>thing else is broadcasting. I am sure to see " BLN1 Way to Go 49ers!  
>SuperBowl Winners! ".

I will say "Amen" to this. I haven't ever seen the 49ers message, but have been noticing a lot of others.

I've been home several days on a long vacation with nothing better to do, so I have really been watching APRS heavily.

There has been a bulletin for days advertising that a certain APRS group is now on the WWW. There were also sports scores. And beacons of persons home stations (not even WX equipped). This stuff seems endless. It is usually transmitted GATE,WIDE,WIDE, or even WIDE,GATE,GATE,WIDE,WIDE .

If a group has an announcement ie: "APRS74z is now on TAPR" or whatever, then fine. A message sent for a few minutes is sufficient, in my opinion.

I'm glad that the group mentioned above is on the WWW and that they are proud of their team, but it must certainly clog up HF- especially since it is so noticable here on on VHF.

Please keep the sports scores local and off the GATEways please. I have ESPN for that.

And on the subject of this, I see lots of unacked messages flying around on HF. There was one today: Someone was sending his web page address to someone else. As sometimes happens in APRS messaging, the guy started typing his message in the place where the call sign was supposed to go. So he ended up sending his transmission to a callsign of WWW. This message flew around for at least half an hour, with a GATE,WIDE,WIDE tacked onto it. I even thought of changing my call to WWW so it would ack ;)

I am not addressing the legality of this, only the courtesy of controlling your messages properly. When you put something out, make sure it goes where it is supposed to, or is cancelled. No wonder HF is clogged up. I usually take the easy way out and turn on the gate filter. It saves my P List spots but unfortunately does nothing to relieve the congestion!

Happy new year

Ralph

---

## 780. Rain Guage + U2000

From: Paul Moller <Paul\_Moller@csg.mot.com>  
Date: Thu, 28 Dec 1995 09:29:16 -0600  
To: aprssig@tapr.org  
Message-ID: <2.2b10.32.19951228152916.006eaca8@144.188.134.33>  
Rendered body type: text/plain

Here is a little tid bit to consider.

I have a rain gauge sold under the name RainWise by Austin Amateur supply (bought a few years ago) and don't want to pay \$100 for a Peet rain gauge for the U2000. I found out that the U2000 (and probably the UII also) use a 4 conductor modular connector for the rain gauge, where only the two center pins are actually used. The Peet rain gauge apparently merely momentarily shorts those contacts as another increment of rain is reached.

So...I used a 330 ohm resistor across the contacts to verify this operation. I measured the open circuit voltage at 5v, and with the 330 ohm resistor at 0.15 v. I conclude that this is a logic input with a 10k or 100k pull up resistor inside the U2000.

Conclusion: Go ahead and use your brand X rain gauge by connecting it in correctly, or maybe make your own!

Paul, WD9ABE  
Maybe closer to GLNTC than anybody (5 miles)

---

## 781. Re: [APRSSIG:5553] Re: Another KPC-3 Problem

From: Daniel Velez <dvelez@norfolk.infi.net>  
Date: Thu, 28 Dec 1995 11:22:24 -0500  
To: aprssig@tapr.org  
Message-ID: <199512281622.LAA27614@moe.infi.net>  
Rendered body type: text/plain

At 19:42 95.12.27 -0600, Larry Griffin wrote:

>I saw the same thing once right after I first got my KPC-3 and was trying to >get it setup. It kept repeating the same line continuously. Even after >turning it off and back on, it kept repeating! I had to open it and do a cold >

While assembling a tracker we had a similar situation occur when the KPC-3 was accidentally put in the TRANSPARENT mode while connected remotely. Everything coming in from the GPS went right out to the radio. The watchdog timer did not interrupt the transmission. We called Kantronics and they led us to believe they'd disable the Trans command when in GPS mode in the next ROM update. I don't know if this is what's happening to you but I thought it was worth mentioning.

73 de Dan

-----  
Dan Velez  
dvelez@infi.net

A00000GA! A00000GA!  
DIVE! DIVE! DIVE!



---

**782. Re: Another KPC-3 Problem**

From: Bill Northup <northup@sw.stratus.com>  
 Date: Thu, 28 Dec 1995 11:25:42 -0500 (EST)  
 To: aprssig@tapr.org (Mail-list APRS)  
 Message-ID: <199512281625.LAA04994@blackdog.sw.stratus.com>  
 Rendered body type: text/plain

I am glad to see that I am not crazy seeing these TX bursts. There appears to be a fair number that have seen this problem.

To answer a few question:

I have seen this happen 3 times. Twice while out on the road and noticed the TX light on and turned the kpc-3 off. If you turn it back on it will start TX again. If you leave it off for a minute and turn it back on it functions properly.

The last time it happened while my truck was sitting in the driveway. I was going to change some parameters in the TNC (via myremote) so I left the TNC and radio on, but the the GPS was off. It had been sitting there for about an hour. This tells me that the GPS was not doing something to start it.

I never noticed what time it started but it WAS always early evening so it could have been at 00:00:00Z.

The BLT line I have been using is  
 BLT 1 EVERY 00:02:30 START 00:00:00

QUESTIONS:

1) Of the people that have seen this did everyone have a start time set ?

2) If so was it 00:00:00 ?

Tonight I will leave it on and see if this problem starts at 00:00:00Z. If it does I will change BLT to not specify a start time and see if it happens again tomorrow night.

LAST: I am reading this via digest (for time management reasons) so if anyone wants to get my attention without a day delay - send mail direct.

thanks all

Bill

--

Bill Northup	INTERNET:	northup@sw.stratus.com
Stratus Computer Inc.	Amateur Radio:	N1QPR
55 Fairbanks Boulevard		QRP-NE #307
Marlboro, MA 01752		NorCal #1027

---

**783. Re: [APRSSIG:5567] Rain Guage + U2000**

From: "John B. Leonard" <jleonard@tbcnet.com>  
 Date: Thu, 28 Dec 95 11:05:35 -0500  
 To: APRS SIG <aprssig@tapr.org>  
 Message-ID: <199512281706.LAA10952@tbc2.tbcnet.com>  
 Rendered body type: text/plain

-- [ From: John B. Leonard \* EMC.Ver #2.5.02 ] --

If it increments in the exact values as the peet version, should work. May want to check first.

----- REPLY, Original message follows -----

> Date: Thursday, 28-Dec-95 09:33 AM  
 >  
 > From: Paul Moller \ Internet: (paul\_moller@csg.mot.com)  
 > To: APRS SIG \ Internet: (aprssig@tapr.org)  
 >  
 > Subject: [APRSSIG:5567] Rain Guage + U2000  
 >  
 > Here is a little tid bit to consider.  
 >

> I have a rain gauge sold under the name RainWise by Austin Amateur supply  
> (bought a few years ago)  
----- REPLY, End of original message -----

--

-----  
Disclaimer: Sometimes I don't know what I'm  
talking about. You'd better get a second opinion  
on this. My mouth usually runs on long after my  
knowledge on a subject runs out. It's a man-kinda  
thing.

J Barry Leonard  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

---

## 784. The results of Wx investigation are in.

From: KD4EMI@aol.com  
Date: Thu, 28 Dec 1995 12:33:54 -0500  
To: aprssig@tapr.org  
Cc: 0004818186@mcimail.com  
Message-ID: <951228123353\_100839691@emout04.mail.aol.com>  
Rendered body type: text/plain

I spoke via LL to ARRL Norm Bliss, who is responsible to  
regulatory issues there.  
He was typing a Email back to me, when I recieve it I will  
post it here.

Those of you who have not been following, this concerns the issue of  
activating a tnc to retransmit a aprs wx alert upon reciept of a  
NWS wx alert tone.

I'll tell you up front it is confusing, and I am dissapointed but the  
law is the law and here it is.

If the radio transmits because it heard the NWS alert, then its  
NOT legal.  
(now read carefully...Im still shaking my head)

If I normally make beacon transmissions, let's say every 9 minutes,  
and the alert tone simply changes the text of my beacon this is ok.  
But, if the tones cause me to change the timing of the beacon,  
(in otherwords step up the time to more frequently or immediate)  
then it's NOT legal.

So here we are, Now in S. Florida that would not be a big issue,  
9 minutes wont make a diff. but in Tornado alley, 9 minutes is too long to  
wait. So, if a NWS alert occured just after a beacon transmission, you would  
have to wait 9 minutes.  
I think this effectivily demasculates the program idea and Im  
short on cures to fix it.

Therefore, development on this project is now over.  
I will provide the text of the ARRL response to the sig when I get it  
(should be later today)

Id like to thank those of you who alerted me to the potential of  
violating FCC rules and appreciate the help from all.  
73 Mike  
KD4EMI@AOL.COM

---

## 785. WX Alerts (fwd)

From: Greg Jones <wd5ivd@tapr.org>  
Date: Thu, 28 Dec 1995 12:30:53 -0600 (CST)  
To: aprssig@tapr.org (BBS SIG mailing)  
Message-ID: <199512281830.MAA01696@sys1.tapr.org>  
Rendered body type: text/plain

Hi gang.

Based on the NWS strand the other day I passed the message along to Paul  
Newland, AD7I. This is what Paul sent back ...there is a second message  
regarding the tone issue.

Some very interesting comments...that why I thought it would be good to  
share back with the SIG.

Cheers - Greg, WD5IVD

Forwarded message:

From: Paul.Benjamin.Newland@att.com

Date: Wed, 27 Dec 1995 16:10:21 -0500

Subject: WX Alerts

Reply-To: paul.newland@att.com (Paul Newland)

Greg --

Thanks for the stuff attached. The concept is a good one, however the current NOAA WX alert system is serious dog breath, which makes implementing the idea a big problem. This will be fixed as the old NOAA system is replaced by the new EAS/EBS system (same system for broadcast will be used by NOAA as I understand it).

The problem with the current NOAA system is that there is only one audio alerting tone (sustained goofy dual tones). And it's repeated once every broadcast cycle (about 10 minutes). I have a WX RX with alerting tone decoder at home. When it goes off the first time that's fine -- I get useful data. However when it goes off again another 10 minutes after that and again another 10 minutes after that, etc, etc, it gets to be a serious problem. One could modify the decoding algorithm such that when a decode tone is detected, any further tones will be ignored unless the tone has not been detected in the last 30 minutes. However, then one is vulnerable to having the voice message updated with new data and missing it because the alert tone continued to be broadcast every 10 minutes.

In the new alerting system (called EAS -- Emergency Alerting System if I remember right), data are transmitted via AFSK (goofy tones at goofy baud rate to make it harder for someone to implement an EBS system that looks like the president has just fired the nukes -- in fact, i think a good programmer with a sound card can still create this "nukes" signal if they choose to invest the time to do so). Each new message will have a new sequence number (so that once you get a message error free you can ignore the repeats -- like NAVTEX) and it will include some content about the nature of the warning, location of the affected area (counties are the main units of area and are further subdivided into 9 sub-areas (like a tic-tac-toe board, squished and stretched to fit the county, I think each county administration defines the sub areas within their own county)).

About the best we can do with the current system is to detect the alert tones and then advise people to monitor the audio from NOAA WX radio. The ham alert should be sent out whenever the tone is now present but hasn't been present for the preceeding 30 minutes.

A better alternative might be to simply wait for the new EAS system to come on line and make use of the better data messaging capability of that system. A very cool think would be to have NOAA WX radio do some data under voice on their VHF transmitters. Consider them doing direct FSK of their VHF transmitters at +/-750 Hz 100 baud (sounds like 50 Hz). Shoot, that's no more obnoxious than PL tones. Encoding could be fancy using Reed-Soloman coding or just use SITOR FEC (it's error correcting, cheap, and there are a lot of decoders in the field!).

I will see what I can find on the specs for the new EAS system. The specs that I've seen still have some ambiguities. I wrote to ARRL HQ to see if they could get some info but I don't think they have good connections with the people actually doing this work within the government (which is now closed :(

Paul

\* \* \* \* \*

Thought you might like to read this.

Greg

\* \* \* \* \*

I was really suprised at the volume of mail that I received about the aprs wx alert idea. In less than 24 hours I have rec'd 30 messages, private and on the sig about it.

The following is the BASIC idea of what I am thinking. Any comments are not only invited but appreciated. Lets see how we can make this a common goal and I would like to try to get this on line and operating in a way that everyone could use. Heck it might actually save someones life !

Here is the idea....

Postage stamp computers are delightfull little devices that have I/O ports and xmit data in various formats. They can also generate DTMF tones, as well as count cycles and a zillion other little a/d conversion applications.

Simply interface a programmed stamp to the AUDIO output of a wx alert radio. The beep goes off indicating a wx alert. The stamp detects this. The stamp sends data to the tnc, reprogramming it with the already preprogrammed wx beacon. This beacon of course is going to be compatable with the aprs wx beacon format. The tnc sends out the wx alert data. Joe ham down the street, who is on aprs copies the wx alert and this sets off his alarm on his aprs program. (maybe a better way is to have Bob write a special code to just alert stations that nws wx alarm is active)

Anyway, if your within a certain radius of my (the wx station) station, your alarm goes off also.

Further, the DTMF capability of the system allows for beeper paging as well.

This system does not decode wx alert specifics, but just alerts aprs users that a wx alert (within a certain radius) has been activated. NWS also tests the wx alert system and this can be detected by the clock on the stamp and a false alarm would not be sent. The test alert is at the same time every day (I will confirm this though)

The system wont say...TORNADO COMING or HURRICANE COMING.

But will say...HEY GUYS..wake up, somethings going on that you better investigate. This is the basic idea. Now, lets make it better!

Give me feedback, lets throw it around, and I will change and modify based on your comments.

I hope Ive explained it well enough, if not, just let me know.

One idea I just though of while typing this follows...

There are devices that shut off computers when they detect the EMI (har) spikes of lightning. I could tailor a chip (<\$50.00) that says, LIGHTNING WARNING...INCOMING THUNDERSTORM (great for S FL). This would be broadcast over the aprs local net. There is an idea ! !

I digress...

Mike

KD4EMI@AOL.COM

---

## 786. EAS Background (fwd)

From: Greg Jones <wd5ivd@tapr.org>  
Date: Thu, 28 Dec 1995 12:34:17 -0600 (CST)  
To: aprssig@tapr.org (BBS SIG mailing)  
Message-ID: <199512281834.MAA02061@sys1.tapr.org>  
Rendered body type: text/plain

Here is the second message regarding a new tone system being developed. This contains two items. Paul's comments to a PRM and the PRM.

Amendment of Part 73,	)	F0 Docket 91-301
Subpart G, of the Commission's	)	F0 Docket 91-171
Rules Regarding the	)	
Emergency Broadcast System	)	

The PRM is very interesting reading and I believe ties in with what was being discussed.

Cheers - Greg, WD5IVD

From: Paul.Benjamin.Newland@att.com  
Date: Wed, 27 Dec 1995 17:00:12 -0500  
Subject: EAS Background  
Reply-To: paul.newland@att.com (Paul Newland)

Iss 1. January 14, 1995

Comments of Paul Newland regarding the

Emergency Alerting System specification as described in Amendment of Part 73, Subpart G, of the Commission's Rules Regarding the Emergency Broadcast System, FO Docket 91-301, FO Docket 91-171, REPORT AND ORDER AND FURTHER NOTICE OF PROPOSED RULE MAKING (Adopted: November 10, 1994, Released: December 9, 1994), Subpart B - Equipment Requirements:

Section 11.31(a)(1)

-----  
Data rate of 520.83 is stated without a tolerance. Is the tolerance 1% like a teleprinter start/stop asynchronous framing format or is it 30 ppm like that use for synchronous Maritime Digital Selective Calling? No tolerance for audio tones indicated in this section. The first time a value appears it's tolerance should also be stated. The statement "Mark and space time must be 1.92 milliseconds" is redundant with data rate but if it stays it should be changed to "The duration of mark and space symbols shall be in multiples of 1.92 milliseconds +/- X percent [or PPM]."

Section 11.31(b)

-----  
This section implies that the term "backslash" is represented by the symbol "/". I believe the term backslash is more commonly associated with the symbol "\" (ASCII bit pattern 5C (base 16)). More clarity needs to be applied to this section. I truly do not know if "/" (ASCII 2F (base 15)) or "\" (ASCII 5C (base 16)) is intended for use as a separator between call sign and the "FM" or "TV" qualifier.

Section 11.31(c)

-----  
PREAMBLE -- In just looking at this off the top of my head it's not totally clear to me that this bit pattern will always ensure synchronization (at the end I make the point that synchronization issues are not discussed in this spec) if asynch framing is used.

In the examples it's not readily apparent what fields are variable and what fields are fixed. For example, it's appears that [PREAMBLE], "ZCZC", "-", and "+" are fixed fields and in particular are fixed with those values, while "ORG", "EEE", "PSSCCC", "TTTT", "JJJHMM" and "LLLLLLLL" are variable fields which in some cases are constrained to a particular set of values.

Section 11.31(a)(8)

-----  
Sloppy wording. Change "outside 200 Hz..." to "outside the range of 200 Hz..."

Section 11.31(i)

-----  
Sloppy wording. Change whole thing to "Alerting Tone Frequencies. The altering audio tones shall have fundamental frequencies of 853 and 960 Hz +/- 0.5 Hz."

OPEN or UNCLEAR ISSUES

- 
1. What is the absolute modulation/deviation level of the alerting and mark/space tones?
  2. What's the tolerance of that level?
  3. How much relative difference in amplitude is allowed between the low and high frequency components of the alerting tone?
  4. How much relative difference in amplitude is allowed between the mark and space tones of the data signal?
  5. Should these be specified only at audio base band? Most systems state deviation/modulation to ensure that someone hasn't fouled the pre-emphasis.
  6. how are the data words blocked for transmission (how does a receiver know where one data word ends and the next begins)? is the transmission totally synchronous, and the only framing information must be derived from the preamble? or is teleprinter stop/start framing used? if so,



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#### I. SUMMARY

1. By this action, we establish the Emergency Alert System (EAS), which will replace the existing Emergency Broadcast System (EBS). We require broadcast stations and cable systems to install and operate new equipment for national alerts while relaxing some requirements for noncommercial educational Class D FM stations and low power television stations. Satellite, Direct Broadcast Satellite (DBS), telephone and cellular carriers, and other service providers are encouraged to voluntarily participate. A standard protocol and new digital codes are adopted that will facilitate different technologies using the new system. Finally, procedures are streamlined so that more participants can work together effectively during emergencies.

2. In a Further Notice of Proposed Rule Making ("FNPRM") we seek comment on how services such as the Multipoint Distribution Service (MDS), Satellite Master Antenna Television (SMATV), and Video Dial Tone should participate in the new EAS. We also seek further comment on whether we should waive our EAS requirements for a defined class of "small" cable systems.

[...]

#### Subpart B - Equipment Requirements

- 11.31 EAS protocol.
- 11.32 EAS Encoder.
- 11.33 EAS Decoder.
- 11.34 Acceptability of the equipment.
- 11.35 Equipment operational readiness.

[...]

#### Subpart B - Equipment Requirements

- 11.31 EAS protocol.
- (a) The EAS uses a four part message for an emergency

activation of the EAS. The four parts are: Preamble and EAS Header Codes; audio Attention Signal; message; and, Preamble and EAS End Of Message (EOM) Codes.

(1) The Preamble and EAS Codes must use Audio Frequency Shift Keying at a rate of 520.83 bits per second to transmit the codes. Mark frequency is 2083.3 Hz and space frequency is 1562.5 Hz. Mark and space time must be 1.92 milliseconds. Characters are ASCII seven bit characters as defined in ANSI X3.4-1977.

(2) The Attention Signal must be made up of the fundamental frequencies of 853 and 960 Hz. The two tones must be transmitted simultaneously. The Attention Signal must be transmitted after the EAS header codes.

(3) The message may be audio, video or text.

(b) The ASCII dash and plus symbols are required and may not be used for any other purpose. Unused characters must be ASCII space characters. FM or TV call signs must use a backslash ASCII character (/) in lieu of a dash.

(c) The EAS protocol, including any codes, must not be amended, extended or abridged without FCC authorization. The EAS protocol and message format are specified in the following representation. Examples are also provided in the EAS Operating Handbook.

---

```
[PREAMBLE]ZCZC-ORG-EEE-PSSCCC+TTTT-JJJHHMM-LLLLLLLLL-
(one second pause)
[PREAMBLE]ZCZC-ORG-EEE-PSSCCC+TTTT-JJJHHMM-LLLLLLLLL-
(one second pause)
[PREAMBLE]ZCZC-ORG-EEE-PSSCCC+TTTT-JJJHHMM-LLLLLLLLL-
(at least a one second pause)
(transmission of 8 to 25 seconds of Attention Signal)
(transmission of audio, video or text messages)
(at least a one second pause)
[PREAMBLE]NNNN
(one second pause)
[PREAMBLE]NNNN
(one second pause)
[PREAMBLE]NNNN
(at least one second pause)
```

---

[PREAMBLE] This is a consecutive string of bits (sixteen bytes of AB hexadecimal[8 bit byte 10101011]) sent to clear the system, set AGC and set asynchronous decoder clocking cycles. The preamble must be transmitted before each header and End Of Message code.

ZCZC- This is the identifier, sent as ASCII characters ZCZC to indicate the start of ASCII code.

ORG- This is the Originator code and indicates who originally initiated the activation of the EAS. These codes are specified in paragraph (d) of this section.

EEE- This is the Event code and indicates the nature of the EAS activation. The codes are specified in paragraph (e) of this section. The Event codes must be compatible with the codes used by the NWS Weather Radio Specific Area Message Encoder (WRSAME).

PSSCCC- This is the Location code and indicates the geographic area affected by the EAS alert. There may be 31 Location codes in an EAS alert. The Location code uses the Federal Information Processing System (FIPS) numbers as described by the U.S. Department of Commerce in National Institute of Standards and Technology publication 772. Each state is assigned an SS number as specified in paragraph (f) of this section. Each county is assigned a CCC number. A CCC number of 000 refers to an entire State or Territory. P defines county subdivisions as follows: 0 = all or an unspecified portion of a county, 1 = Northwest, 2 = North Central, 3 = Northeast, 4 = West Central, 5 = Central, 6 = East Central, 7 = Southwest, 8 = South Central, 9 = Southeast. Other numbers may be designated later for special applications. The use of county subdivisions will probably be rare and generally for oddly shaped or unusually large counties. Any subdivisions must be defined and agreed to by the local officials prior to use.



+TTTT- This indicates the valid time period of a message in 15 minute segments up to one hour and then in 30 minute segments beyond one hour; i.e., +0015, +0030, +0045, +0100, +0430 and +0600.

JJJHHMM- This is the day in Julian Calendar days (JJJ) of the year and the time in hours and minutes (HHMM) when the message was initially released by the originator using 24 hour Universal Coordinated Time (UTC). These codes must remain unchanged for retransmitted messages.

LLLLLLLL- This is the call sign or other identification of the broadcast station, or NWS office transmitting or retransmitting the message. These codes will be automatically affixed to all outgoing messages by the EAS encoder.

NNNN This is the End of Message (EOM) code sent as a string of four ASCII N characters.

(d) The only originator codes are:  
Originator

Emergency Action  
Notification Network

Primary Entry Point  
System

National Weather Service

Civil authorities

Broadcast station  
or cable system  
ORG Code

EAN

PEP

WXR

CIV

EAS (e) The following Event (EEE) codes are presently authorized:

Nature of Activation

Emergency Action Notification (National only)

Emergency Action Termination (National only)

National Information Center

National Periodic Test

Required Monthly Test

Required Weekly Test

Tornado Watch

Tornado Warning

Severe Thunderstorm Watch

Severe Thunderstorm Warning

Severe Weather Statement

Special Weather Statement

Flash Flood Watch  
Flash Flood Warning  
Flash Flood Statement  
Flood Watch  
Flood Warning  
Flood Statement  
Winter Storm Watch  
Winter Storm Warning  
Blizzard Warning  
High Wind Watch  
High Wind Warning  
Hurricane Watch  
Hurricane Warning  
Hurricane Statement  
Tsunami Watch  
Tsunami Warning  
Evacuation Immediate  
Civil Emergency Message  
Practice/Demo Warning  
Administrative Message

#### EVENT CODES

EAN  
EAT  
NIC  
NPT  
RMT  
RWT  
TOA  
TOR  
SVA  
SVR  
SVS  
SPS  
FFA  
FFW  
FFS  
FLA  
FLW  
FLS  
WSA  
WSW  
BZW  
HWA  
HWW  
HUA  
HUW  
HLS  
TSA  
TSW  
EVI  
CEM  
DMO

ADR (f) The State and Territory FIPS number codes (SS) are as follows. County FIPS numbers (CCC) are contained in the State EAS Mapbook.

State FIPS# State FIPS# State FIPS# State FIPS# State FIPS#

AL	01	HI	15	MA	25	NM	35	SD	46
AK	02	ID	16	MI	26	NY	36	TN	47
AZ	04	IL	17	MN	27	NC	37	TX	48
AR	05	IN	18	MS	28	ND	38	UT	49
CA	06	IA	19	MO	29	OH	39	VT	50
CO	08	KS	20	MT	30	OK	40	VA	51
CT	09	KY	21	NE	31	OR	41	WA	53
DE	10	LA	22	NV	32	PA	42	WV	54
FL	12	ME	23	NH	33	RI	44	WI	55
GA	13	MD	24	NJ	34	SC	45	WY	56

District of Columbia - 11

Terr. FIPS# Terr. FIPS# Terr. FIPS# Terr. FIPS# Terr. FIPS#

AS	60	FM	64	GU	66	MH	68	MP	69
PR	72	PW	70	UM	74	VI	78		

#### 11.32 EAS Encoder.

(a) EAS Encoders must at a minimum be capable of encoding the EAS protocol described in 11.31 and providing the EAS code transmission requirements described in 11.51. EAS encoders must additionally provide the following minimum specifications:

(1) Encoder programming. Access to encoder programming shall be protected by a lock or other security measures and be configured so that authorized personnel can readily select and program the EAS Encoder with Originator, Event and Location codes for either manual or automatic operation.

(2) Inputs. The encoder shall have two inputs, one for audio messages and one for data messages (RS-232C with standard protocol and 1200 baud rate).

(3) Outputs. The encoder shall have two outputs, one audio port and one data port (RS-232C with standard protocol and 1200 baud rate).

(4) Calibration. EAS Encoders must provide a means to comply with the modulation levels required in 11.51(f).

(5) Day-Hour-Minute and Identification Stamps. The encoder shall affix the JJJHHMM and LLLLLLLL codes automatically to all initial messages.

(6) Program Data Retention. Program data and codes shall be retained even with the power removed.

(7) Indicator. An aural or visible means that is activated when the Preamble is sent and deactivated at the End of Message code.

(8) Spurious Response. All frequency components outside 200 to 4000 Hz shall be attenuated by 40 dB or more with respect to the output levels of the mark or space frequencies.

(9) Attention Signal generator. The encoder must provide an attention signal that complies with the following:

(i) Tone Frequencies. The audio tones shall have fundamental frequencies of 853 and 960 Hz and not vary over 0.5 Hz.

(ii) Harmonic Distortion. The total harmonic distortion of each of the audio tones may not exceed 5% at the encoder output terminals.

(iii) Minimum Level of Output. The encoder shall have an output level capability of at least +8 dBm into a 600 Ohm load impedance at each audio tone. A means shall be provided to permit individual activation of the two tones for calibration of associated systems.

(iv) Time Period for Transmission of Tones. The encoder shall have timing circuitry that automatically generates the two tones simultaneously for a time period of not less than 8 nor longer than 25 seconds. NOTE: Prior to July 1, 1995, the Attention Signal must be at least 20 and not more than 25 seconds.

(v) Inadvertent activation. The switch used for initiating the automatic generation of the simultaneous tones shall be protected to prevent accidental operation.

(vi) Indicator Display. The encoder shall be provided with a visual and/or aural indicator which clearly shows that the Attention Signal is activated.

(b) Operating Temperature and Humidity. Encoders shall have the ability to operate with the above specifications within an ambient temperature range of 0 to +50 degrees C and a range of relative humidity of up to 95%.

(c) Primary Supply Voltage Variation. Encoders shall be capable of complying with the requirements of this section during

a variation in primary supply voltage of 85 percent to 115 percent of its rated value.

(d) Testing Encoder Units. Encoders not covered by 11.34(e) of this part shall be tested in a 10 V/m minimum RF field at an AM broadcast frequency and a 0.5 V/m minimum RF field at an FM or TV broadcast frequency to simulate actual working conditions.

#### 11.33 EAS Decoder.

(a) An EAS Decoder must at a minimum be capable of decoding the EAS protocol described in 11.31, provide the EAS monitoring functions described in 11.52, and the following minimum specifications:

(1) Inputs. Decoders must have the capability to receive at least 2 audio inputs from EAS monitoring assignments, and one data input (RS-232C with standard protocol and 1200 baud rate). The data input may be used to monitor other communications modes such as Radio Broadcast Data System (RBDS), NWR, satellite, public switched telephone network, or any other source that uses the EAS protocol.

(2) Valid codes. There must be a means to determine if valid EAS header codes are received and to determine if preselected header codes are received.

(3) Storage. Decoders must provide the means to:

(i) Record and store at least two minutes of audio or text messages.

(ii) Store at least 10 preselected header codes for comparison with incoming header codes. A non-preselected header code that is manually transmitted must be stored for comparison with later incoming header codes. The header codes of the last ten received valid messages which still have valid time periods must be stored for comparison with the incoming valid header codes of later messages. The header codes will be deleted from storage as their valid time periods expire.

(4) Display. A visual message shall be developed from any valid EAS header codes received. The message will include the Originator, Event, Location, the valid time period of the message and the local time the message was transmitted. The message shall be in the primary language of the broadcast station or cable system and be fully displayed on the decoder and readable in normal light and darkness.

(5) Indicators. EAS Decoders must have a distinct aural or visible means to show that it is activated when:

(i) any valid EAS header codes are received as specified in 11.33(a)(10).

(ii) preprogrammed header codes, such as those selected in accordance with 11.52(d) are received

(iii) a signal is present at each audio input that is specified in 11.33(a)(1).

(6) Program Data Retention. The program data must be retained even with power removed.

(7) Outputs. Decoders shall have the following outputs: a data port or ports (RS-232C with standard protocol and 1200 baud rate) where received valid EAS header codes and received preselected header codes are available; one audio port that is capable of monitoring each decoder audio input; and, an internal speaker to enable personnel to hear audio from each input.

(8) Decoder Programming. Access to decoder programming shall be protected by a lock or other security measures and be configured so that authorized personnel can readily select and program the EAS Decoder with preselected Originator, Event and Location codes for either manual or automatic operation.

(9) Reset. There shall be a method to automatically or manually reset the decoder to the normal monitoring condition. If an end of message code (EOM) is not received for an EAS message, operators shall be able to select an automatic reset time which may not be less than two minutes. Messages received with the EAN Event codes shall disable the reset function so that lengthy audio messages can be handled. The last message received with valid header codes shall be displayed as required by 11.33(a)(4) of this section before the decoder is reset.

(10) Message Validity. An EAS Decoder must provide error detection and validation of the header codes of each message to ascertain if the message is valid. Header code comparisons may be accomplished through the use of a bit-by-bit compare or any other error detection and validation protocol. A header code must only be considered valid when two of the three headers match exactly. Duplicate messages must not be relayed automatically.

(11) A header code with the EAN Event code specified in 11.31(c) of this part that is received through either of the two audio inputs must override all other EAS messages.

(b) Attention Signal. EAS Decoders at broadcast stations shall have detection and activation circuitry that will demute a receiver upon detection of the two audio tones of 853 Hz and 960 Hz. To prevent false responses, decoders designed to use the two tones for broadcast receiver demuting shall comply with the following:

(1) Time Delay. A minimum time delay of 8 but not more than 16 seconds of tone reception shall be incorporated into the demuting or activation process to insure that the tones will be audible for a period of at least 4 seconds. After July 1, 1995, the time delay shall be 3-4 seconds.

(2) Operation Bandwidth. The decoder circuitry shall not respond to tones which vary more than 0.5 Hz from each of the frequencies, 853 Hz and 960 Hz.

(3) Reset Ability. The decoder shall have a means to manually or automatically reset the associated broadcast receiver to a muted state.

(b) Decoders shall be capable of operation within the tolerances specified in this section as well as those in 11.32(b), (c) and (d).

#### 11.34 Acceptability of the equipment.

(a) An EAS Encoder used for generating the EAS codes and the Attention Signal must be Certified in accordance with the procedures in Part 2, Subpart J, of this chapter. The data and information submitted must show the capability of the equipment to meet the requirements of this Part as well as the requirements contained in Part 15 of this chapter for digital devices.

(b) Decoders used for the detection of the EAS codes and receiving the Attention Signal must be Certified in accordance with the procedures in Part 2, Subpart J, of this chapter. The data and information submitted must show the capability of the equipment to meet the requirements of this Part as well as the requirements contained in Part 15 of this chapter for digital devices.

(c) The functions of the EAS decoder, Attention Signal generator and receiver, and the EAS Encoder specified in 11.31, 11.32 and 11.33 may be combined and notified as a single unit provided that the unit complies with all specifications in this rule section.

(d) Manufacturers must include instructions and information on how to install, operate and program an EAS Encoder, EAS Decoder, or combined unit and a list of all State and county FIPS numbers with each unit sold or marketed in the U.S.

(e) Waiver requests of the Certification requirements for EAS Encoders or EAS Decoders which are constructed for use at a broadcast station or subject cable system, but are not offered for sale will be considered on an individual basis in accordance with Part 1, Subpart G, of this chapter.

#### 11.35 Equipment operational readiness.

(a) Broadcast stations and subject cable systems are responsible for ensuring that EAS Encoders, EAS Decoders and Attention Signal generating and receiving equipment used as part of the EAS is installed so that the monitoring and transmitting functions are available during the times the broadcast station or cable system is in operation. Additionally, broadcast stations and subject cable systems must determine the cause of any failure to receive the required tests or activations specified in 11.61(a)(1) and (2). Appropriate entries must be made in the broadcast station log as specified in 73.1820 and 73.1840 of this chapter, cable system record in 76.305 of this chapter indicating reasons why any tests were not received.

(b) If the EAS Encoder or EAS Decoder becomes defective the broadcast station or subject cable system may operate without the defective equipment pending its repair or replacement for a period not in excess of 60 days without further FCC authority. Entries shall be made in the broadcast station log or subject cable system records showing the date and time the equipment was removed and restored to service. For personnel training purposes, the required monthly test script must still be transmitted even though the equipment for generating the EAS message codes, Attention Signal and EOM code is not functioning.

(c) An informal request may be made to the Engineer-in-

charge of the FCC field office serving area in which the broadcast station or subject cable system is located for additional time to complete repairs to the defective equipment. These requests must explain what steps have been taken to repair or replace the defective equipment, the alternative procedures being used while the defective equipment is out of service, and when the defective equipment will be repaired or replaced.

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## 787. Re: [APRSSIG:5571] The results of Wx investigation are in.

From: taf8892@madison.tec.wi.us (Tom Fleming)  
Date: Thu, 28 Dec 1995 15:53:19 -0600  
To: aprssig@tapr.org  
Message-ID: <199512282048.0AA04619@mail.madison.tec.wi.us>  
Rendered body type: text/plain

##### Stuff removed #####

>  
>If the radio transmits because it heard the NWS alert, then its  
>NOT legal.  
>(now read carefully...Im still shaking my head)  
>  
>If I normally make beacon transmissions, let's say every 9 minutes,  
>and the alert tone simply changes the text of my beacon this is ok.  
>But, if the tones cause me to change the timing of the beacon,  
>(in otherwords step up the time to more frequently or immediate)  
>then it's NOT legal.  
>

##### Stuff remove #####

How would this be different then a repeater rebroadcasting NOAA radio or the new EAS system using local repeater for paths.

I remember a broadcast about the EAS. The FCC man stated that this should not be a problem because this was emergency traffice. I do not see a differance.

Please check your contact at the FCC for rulings on the above cases.

```
-----
Tom Fleming - Network Tech      | Life is T00 short to be |
Postmaster                    | dull. So turn off the TV |
Madison Area Tech College     | and enjoy life          |
Internet   : taf8892@madison.tec.wi.us |                          |
Callsign   : N9SZF              |                          |
Phone      : 608-246-6140       |                          |
-----
```

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## 788. APRS on I-75

From: jimk@on-ramp.net  
Date: Thu, 28 Dec 1995 16:39:34 -0500  
To: aprssig@tapr.org  
Message-ID: <199512282139.QAA08491@mail.ee.net>  
Rendered body type: text/plain

After a recent family trip over the Thanksgiving day holiday weekend, I can personally attest to the APRS activity on VHF along I-75 from central Ohio down to Atlanta Georgia. I must admit that I was a little disappointed with the APRS coverage in certain areas, but was pleasantly surprised by the time we hit Knoxville Tennessee.

From there on into Atlanta the VHF activity picked up quite a bit. By the time we had crossed the Georgia state line I got my first message from the gang down in Atlanta (some 100 miles down to the south-east).

Once we had made our final destination, I setup the temporary shack with my HT, KPC-3, and laptop. Lo and behold, I was sitting right under a Wide-area Digi 2 or 3 miles to the south-east atop one of Atlanta's higher mountain tops. From then on, I was quite impressed.

With the HT, I was seeing stations on VHF as far north as Knoxville, as far south as southern Georgia, as far west as central Alabama (Hi Bill, saw you too), and as far east as the western & west central Carolina's.

Wow! What a network! This was very impressive compared to the

skimpy coverage I'm used to back home. So come on guys... (and gals) Ohio (Cleveland ? Very sparse down central Ohio way, Toldeo ? Mansfiled ? Never), Michigan (Rarely), Indiana (what happened to you guys?), WV (Never), Pennsylvania (only N3EOY). Let's get with it! These guys down south have put a lot of effort into there APRS network and its really paid off!

If I understood Ralph (N4NEQ) correctly, he said they saw me coming from Knoxville. Of course I was running HF on 10.151 simultaneously with VHF, but the gated position reports don't get through as fast and as often as the chatter I was hearing on the local repeaters once I got there.

The major areas of APRS activity seen along our way was, of course, central & south-western Ohio (Columbus to Cinnci), Lexington, Knoxville, and Atlanta. All-in-all though, we did have fairly good VHF coverage most of the way. Most likely due to band conditions, we had better VHF coverage on the way down than we did on the way back.

I do have complete track history files for all of the trip, so if anyone would like a copy of them please send me a PERSONAL E-Mail to jimk@on-ramp.net. It should at least give you some kind of idea what the coverage is like along I-75 if you're planning a trip along this route.

Additionally I do have available, for those who might be interested, 2 programs for working with downloaded GPS LTrack data and track history files. I had set the LTrack buffer in my KPC-3 before we left for home, but some how a lot of the data got scrambled.

I wrote "LTrack" to clean out this scrambled GPS data and a program called "Clean" for cleaning out the track history data I had saved along the way. I used this program to purge all stations other than mine from the track history data to some temporary files so I didn't have to wade through all the other stations just to see where I had been. Hi.Hi. It can also be used to purge just one station, if you like, for example to see everyone except yourself. Kinda useful I thought!

I wonder if anyone else has seen their LTrack data get scrambled? I can only presume that this happened due to an improper ground, and that the HF rig was getting into the KPC-3 somehow.

Also F.Y.I. - I have the 128K chip installed in my KPC-3 and it held 16,000 (that's sixteen thousand) lines of LTrack data. The data had an extra carriage return between every line of LTrack data, so in reality there was over 32,000 lines of data held in the buffer. I don't know if this is the exact nature of how the data comes out of the KPC-3's, or if was caused by the communications program I used to retrieve it.

Due to the scrambled nature of the data, I can't say for sure that this means anything. But I think it does say something for the amount of GPS data that can be held with the 128K chip.

One last thing before I go... With the configuration I had, I could see any, and all, VHF activity coming in on the laptop, but to the APRS community it would have looked as though I was running my GPS in a standalone mode. I ran it this way because my primary efforts on this trip were concentrated towards the local HF gate back home (KB8DP). Many people along the way tried to send me APRS messages on VHF, which did pop up on the screen. However, the way I had every thing configured I could not respond to any VHF messages that came in. If these people would have paid attention to the "raw\*" ID that they were receiving in my position reports they should have known I was running my VHF equipment in an "apparent" standalone mode.

The lesson to learn here is if you see "raw\*" coming in across the bottom of you screen with GPS position reports DO NOT try to send messages to these stations. They are not going to be able to respond to you. This only creates unnecessary traffic on the frequency. Your system will keep

trying to send out these messages with no hopes of ever  
getting an \*ACK\*.

```
=====
| 73, de Jim (KG8GE) | jimk@on-ramp.net | Somewhere near the great |
| Home of PLT2MAP. | KG8GE@WN7C.NCOH.OH.USA | lakes! |
=====
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## 789. Re: [APRSSIG:5571] The results of Wx investigation are in.

From: Greg Jones <wd5ivd@tapr.org>  
Date: Thu, 28 Dec 1995 16:17:21 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <199512282217.QAA08749@sys1.tapr.org>  
Rendered body type: text/plain

>  
> Therefore, development on this project is now over.  
> I will provide the text of the ARRL response to the sig when I get it  
> (should be later today)  
>

Not at all. I think this is a very good application idea. Just think of  
another way of doing it so that it does fit into the rules.

Also -- don't forget that the rules are a living thing. If we find  
something that could be beneficial to amateur radio in what we do -- then we  
can go about it in legal ways to get modifications made to the rules to  
allow what we want to have done. Several things are involved here and I am  
sure others on the SIG can talk more in depth about them.

Don't let a little barrier like the rules as currently stated will not allow  
you to do it in your first concept -- kill it. That is the real fun about  
all this -- there are always lots of different ways to implement something.

If the tones can't affect what happens, then how could it be done so that  
the tones are only used as a data point.

As in the message I posted from Paul Newland, just using the tones is very  
limited. When another tone series begins, you have no clue to what the  
tones are associated with --- just that another alert is sounding.

So, when you first don't succeed, try, try again.

Cheers - Greg, WD5IVD

-----  
President -- Tucson Amateur Packet Radio Corp  
-----

TAPR Office (817) 383-0000 | Internet: gjones@tenet.edu  
-----

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## 790. Re: [APRSSIG:5551] 6M APRS Activity...

From: BenW5SR@aol.com  
Date: Thu, 28 Dec 1995 20:13:59 -0500  
To: aprssig@tapr.org  
Message-ID: <951228201358\_101156264@mail02.mail.aol.com>  
Rendered body type: text/plain

Whatever we do we need to decide what frequency we are going to use. I have  
seen reports of 6m activity on 50.620 and 50.610. Have been running 6m APRS  
during the E-skip of the last few days and have seen nothing, although I did  
connect with a node in Wisconsin from NW Texas and got into their 2m net and  
played around, so it can work.

I'll probably be flamed again, but oh well won't be the last time. What about  
a 2m and 6m weak signal (aka SSB) freq, It would be nice to have one to try  
for periods of E-skip, meteor showers, etc. And it might turn out to be a  
great beacon system!

On another note has anyone done or thought of tying a 6m rig in with a wide?  
I mean having a 2m rig and 6m rig running off of one single port TNC, so it  
will basically act as a dual freq node? I don't know if this will work or  
not, but any ideas are welcome.

Go ahead and flame and whine, cause I wear an asbestos suit all the time! I'm  
also qualified and licensed to remove it.



## 791. RE: Way to many BLNs

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>  
Date: Thu, 28 Dec 95 11:26:42 EST  
To: aprssig@tapr.org  
Message-ID: <CMM-RU.1.4.820168002.ksproul@old-hercules.rutgers.edu>  
Rendered body type: text/plain

>I see way too many BLN s.....

I agree with this.. There are BLNs that get repeated DAY AFTER DAY AFTER DAY.. and this gets to be too much..

MacAPRS and WinAPRS currently do the following for MESSAGES...  
The messages get sent Once a minute for 5 minutes, then if still not acked, once a hour for 5 hours. (This is so that msgs that need to go via HF have a chance for propagation to change).

After that, The message dies.. Currently, BLNs are treated the EXACT same way. Which means that a message will at MAXIMUM transmit for 5 hours then stop. (This time limit of 5 hours IS user-setable, but the default is 5, and the software will NOT allow anything more than 24 to be entered)

Keith Sproul Student Housing Network Coordinator Rutgers University Computing Services <a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a>	Ham Radio: WU2Z ksproul@noc.rutgers.edu 908 445-3695 Work 908 445-2968 Fax 908 821-4828 Home
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## 792. Re: [APRSSIG:5575] APRS on I-75

From: N4QEA <moyers@ibm.net>  
Date: Thu, 28 Dec 1995 22:03:47 EST  
To: aprssig@tapr.org  
Message-ID: <199512290300.DAA01872@smtp-gw01.ny.us.ibm.net>  
Rendered body type: text/plain

\*\* Reply to note from jimk@on-ramp.net 12/28/95 3:54pm -0600

> After a recent family trip over the Thanksgiving day holiday  
> weekend, I can personally attest to the APRS activity on VHF  
> along I-75 from central Ohio down to Atlanta Georgia. I must  
> admit that I was a little disappointed with the APRS coverage  
> in certain areas, but was pleasantly surprised by the time we  
> hit Knoxville Tennessee.

Snip snip

>  
> If I understood Ralph (N4NEQ) correctly, he said they saw me  
> coming from Knoxville. Of course I was running HF on 10.151  
> simultaneously with VHF, but the gated position reports don't  
> get through as fast and as often as the chatter I was hearing  
> on the local repeaters once I got there.

Jim, just wanted to drop this line to you. Glad you got back ok. I had watched you off and on on your drive back north from Atlanta thru Knoxville, and up the side of the MTN above CARYVILLE. TN. I loved the Altitude data, for once I could use the Y axis in APRS and see the terrain as you traveled.

As info for you and other travelers heading south on I-75. As you Enter Tn heading South, you may want to change your beacons to either RELAY,WIDE,WIDE,N4NEQ-2 or WIDE,WIDE,N4NEQ-2. We are fortunate here to have 2 digi's at +3000 Ft ASL with coverage over most of the East TN valley. We still have some large holes in coverage along I-75 between Knoxville and Chattanooga but are working on those. By using the above unproto paths you should be able to be seen down into Atlanta. After you get to Chattanooga you may wish to change to just wide,wide or Wide, wide,TN. The TN will let use back up here In Knoxville see you.

73

John Moyers  
ARS; N4QEA  
Packet; N4QEA @ N4QEA.#METN.TN.USA.NA  
Inet; moyers@ibm.net  
Cruise Missile; 36,02.89N/83,43.35W

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## 793. Kantronics e-mail

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>  
Date: Fri, 29 Dec 1995 05:46:37 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.3.07.9512290537.A26020-8100000@acme>  
Rendered body type: text/plain

Kantronics service e-mail address should read:

service@kantronics.com

Regret any confusion that may have resulted from the type error in my previous posting.

73s & Happy New Year - Joe W8RIK

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## 794. Re: [APRSSIG:5571] The results of Wx investigation are in.

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
Date: Fri, 29 Dec 1995 12:35:27 +0000 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951229123027.18348B-100000@pinegov>  
Rendered body type: text/plain

On Thu, 28 Dec 1995 KD4EMI@aol.com wrote:

> I spoke via LL to ARRL Norm Bliss, who is responsible to  
> regulatory issues there.  
> He was typing a Email back to me, when I recieve it I will  
> post it here.  
>  
> Those of you who have not been following, this concerns the issue of  
> activating a tnc to retransmit a aprs wx alert upon reciept of a  
> NWS wx alert tone.  
>  
> I'll tell you up front it is confusing, and I am dissapointed but the  
> law is the law and here it is.  
>  
> If the radio transmits because it heard the NWS alert, then its  
> NOT legal.  
> (now read carefully...Im still shaking my head)  
>  
> If I normally make beacon transmissions, let's say every 9 minutes,  
> and the alert tone simply changes the text of my beacon this is ok.  
> But, if the tones cause me to change the timing of the beacon,  
> (in otherwords step up the time to more frequently or immediate)  
> then it's NOT legal.  
>  
> So here we are, Now in S. Florida that would not be a big issue,  
> 9 minutes wont make a diff. but in Tornado alley, 9 minutes is too long to  
> wait. So, if a NWS alert occured just after a beacon transmission, you would  
> have to wait 9 minutes.  
> I think this effectivly demasculates the program idea and Im  
> short on cures to fix it.  
>  
> Therefore, development on this project is now over.  
> I will provide the text of the ARRL response to the sig when I get it  
> (should be later today)  
>  
> Id like to thank those of you who alerted me to the potential of  
> violating FCC rules and appreciate the help from all.  
> 73 Mike  
> KD4EMI@AOL.COM  
>  
>  
Okay, Mike, now I am confused...where was the illegality...in the  
automated function of the beacon?

Certainly, If I am sitting at my APRS station and the WX alert goes off,  
and I issued a BLN1: Tornado Watch in effect for West Central Florida, I  
am not breaking any FCC rules. It is a temporary bulletin containing  
information of general interest to all amateur operators....and, BTW, it  
is also a transmission with regard to immediate protection of life and  
property...and could TECHNICALLY be called an emergency  
transmission...especially if it is a Tornado Warning, not just a watch.  
(All Tornado Warnings are issued "BULLETIN--EBS ACTIVATION REQUESTED.")

73 de Kevin  
KD4UYR  
kheyboer@co.pinellas.fl.us

## 795. Ultimeter 2000 Remote Problems

From: "John D. Snoddy" <jds7801@mec7804a.dukepower.com>  
Date: Fri, 29 Dec 1995 09:30:19 -0800  
To: aprssig@tapr.org  
Message-ID: <30E425AB.6CDB@mec7804a.dukepower.com>  
Rendered body type: text/plain

Has anyone be able to get the U-2000 operating in the Remote Mode with Versions 74x of APRS? I connected my U-2000 to my TNC that is currently operating as Remote WX for a U-II. I turned the GPS feature off in the TNC and programed the U-2000 for Packet Mode. The Remote TNC transmits the following string every five minutes:

\$ULTW000000000008F000027DE0002CEBA0001036601670447

All of the above appears to be correct based on the documentation that I have read in APR's WX notes. There appears to be a problem with APRS when it tries to decode the message. As soon as APRS receives the above string, it bombs with an ERROR 6. I have tried this with both Ver. 74 and Ver. 74e. I also had another station monitor the channel and he reported the same problem with Ver. 74a. Thanks.

--

John D. Snoddy WA4SSP  
jds7801@mec7804a.dukepower.com

---

## 796. Re: [APRSSIG:5565] Re: APRS Gateways

From: WB4LTF@aol.com  
Date: Fri, 29 Dec 1995 12:39:24 -0500  
To: aprssig@tapr.org  
Message-ID: <951229123922\_80614863@mail06.mail.aol.com>  
Rendered body type: text/plain

In a message dated 95-12-28 07:26:03 EST, you write:

>In Florida:

>

>St. Petersburg: KD4UYR  
>Lakeland : WB90ML  
>West Palm Bch : N2CZF

Add

Orlando: KR4VH

Bud

wb4ltf@aol.com

---

## 797. Re: [APRSSIG:5582] Ultimeter 2000 Remote Problems

From: gwelte@blueox.bji.net (George A. Welte)  
Date: Fri, 29 Dec 1995 12:58:06 -0600  
To: aprssig@tapr.org  
Message-ID: <v01530500ad09919c8656@[206.31.226.35]>  
Rendered body type: text/plain

John, thats the same problem I'm haveing with the Pk12 - U 2000 and APRS74f. I get the output from the weather station the same as you do, but it is not decoded into meaningful weather data. Do you save the material in any way so that the weather portion is validated. We evidently are missing something. If you find a cure, let me know and I will do the same for you. I have been trying for weeks now but to no avail.

George Welte N0WBU

From the 1st City on The Mississippi  
Bemidji, Mn

---

## 798. Space Mode & Dual -port TNC

From: MBTD87A@prodigy.com (MR MICHAEL R HESKETT)  
Date: Fri, 29 Dec 1995 13:57:27 EST  
To: aprssig@tapr.org  
Message-ID: <091.07561902.MBTD87A@prodigy.com>  
Rendered body type: text/plain

-- [ From: Mike Heskett \* EMC.Ver #2.10P ] --

Does anyone have any experience with with Space mode automatically triggering on a dual-port TNC. In my case a KPC-4 (2 VHFports).

I used a single port TNC (PK-12) and APRS 7.4b and it automatically fired the beacon upon seeing the spacecraft (R0MIR). Testing this with my KPC-4, APRS did not fire automatically. When I was successfully digipeated after manual intervention, APRS did go through the "SUCCESS"

routine.

I normally use Port 1 on the KPC-4 for APRS and then either turn off the radio on Port 2 ( or put it in voice mode).

I also tried "Controls/ 2port" without any luck.  
I wonder if there is a problem parsing the Unprotocol command for the spacecraft id, or is there something else I need to do.

In the KPC-4 the Unprotocol command has two parts - one for each port separated by a "/". Each port can be set independently of the other or they both can be set to the same thing. For example, with both ports set the same for me to digipeat through MIR, if you entered the "U" command, it would look like this:

UNPROTO EM12JU VIA R0MIR/EM12JU VIA R0MIR

Anyone have any experience with this or can experiment with it?

73 Mike  
WB5QLD

---

## 799. Re: APRS WxAlert

From: KD4EMI@aol.com  
Date: Fri, 29 Dec 1995 18:33:42 -0500  
To: bkopp@omnifest.uwm.edu  
Cc: aprssig@tapr.org  
Message-ID: <951229183339\_26811124@mail04.mail.aol.com>  
Rendered body type: text/plain

Good day and Happy New Year!  
Here is the last in the installmet of comments I have recieved.  
My reply's are in caps.

Regarding your APRS severe weather notification system I would respectfully pose a few questions for your consideration.

-How many spotters/chasers have APRS?  
-If one's pager sounds off they would need to access a Wx Radio for immediate description of the event.  
-Why not just buy a pocket tone alert Wx radio and/or a desk model and have direct tone alerting and descriptions on your desk or in the palm of your hand? (Well -under- a \$100.00)

YOUR QUITE RIGHT. THE PURCHASE OF A HAND HELD  
WX RECIEVER WOULD FUNCTION VERY WELL. ALL IN ALL,  
I SEE NO PURPOSE AT THIS POINT TO THE APRS NET.  
IT ADDS A LEVEL OF COMPLEXITY TO THE SYSTEM AND  
NOT REDUNDANCY. PERHAPS THE LIGHTNING WARNING SYSTEM  
WOULD BE A BETTER PROJECT. THIS IS NOT SOMETHING THAT  
IS ROUTINLY REPORTED ON WX WARNINGS.

What I don't understand is why standard tone alert weather radios would not be your first choice, and how does the paging system add any value to severe weather notification?

-----  
THIS NOTE THAT FOLLOWS IS FROM THE ARRL, I SENT A FEW  
OF OUR NOTES TO THEM FOR COMMENTARY.

Thanks Mike. Just as a response to the first commentator, the difference between most of what he is mentioning and the NWS alert is that the NWS alert is generated because a human being decided to issue an alert. The alert carries information intended for other humans, and so it's third party information on amateur radio.

The other conditions the person cited, a rain gauge hooked to an APRS system, or a repeater changing certain items due to battery failure, are not generated by humans. Neither the rain gauge nor wind indicator nor the repeater battery monitor send their information for any purpose whatever. The closest thing to a human, informational, intent in either of those systems is that the station licensee/control operator has intentionally and legally programmed the system to AUTOMATICALLY respond to natural, not human generated, phenomena and report them. Telemetry, the transmission of measurement information, is certainly legal. Decoding and transmitting an NWS alert does not constitute a measurement.

By the way, all the comments you forwarded are very well thought out, and I appreciate your passing them on.

THE BOTTOM LINE IS:

I think we are dead in the water, and honestly dont feel bad about it. This system really would not help anyone more than the wx alert radios would. IF you want an alert, carry a radio...  
Im still in the mood to try and come up with a good application for aprs and these pic's.  
thanks again to everyone, arrl included for your helpful comments and keeping the sig nice and not too flamey (is flamey a word !?)  
Mike KD4EMI@AOL.COM

---

## 800. More lessons learned

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 29 Dec 1995 18:39:18 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951229182719.16659A-100000@greatlakes>  
Rendered body type: text/plain

When ever I travel with APRS I usually find some things to change. This time, only one thing came up. THOSE REDICULUOUS PHG-RINGS!

You wouldn't believe some of the rings I saw in the southeast

Here is where I can change it a little bit.

Presently APRS caculates the more-or-less proper range based on HAAT but then bumps it up for added gain above 3 dB and again for added power over 10 watts.

The POWER factor clearly does NOTHING for receive which was my intent for the PHG rings anyway. This screws the range ring beyond reality when the owner puts up an aligator... For my next version, I am going to drop the POWER factor from the size of the range rings for all stations EXCEPT your own. This way you will see the RECEIVE range of all other stations and the TRANSMIT range of your own. If the circles overlap, then you will be tracked...

I spent my entire vacation in Atlanta, only 8 miles from a WIDE. My terrain was about average, and after trying the attic, roof, and then a line into the top of a 40 foot tree, I still could NOT even HEAR the WIDE at all. I finally got out via another home station, but without hearing a WIDE, I could not see any more than 1 to three neighbors. The WIDE PHG ring, of course went FAR beyond my location...

---

## 801. Re: [APRSSIG:5571] The results of Wx investigation are in.

From: schiers@ibm.net (hasan schiers)  
Date: Fri, 29 Dec 95 14:47:39 EST  
To: aprssig@tapr.org  
Message-ID: <199512300009.AAA27734@smtp-gw01.ny.us.ibm.net>  
Rendered body type: text/plain

On Thu, 28 Dec 1995 11:45:11 -0600 (CST) you wrote:

>I spoke via LL to ARRL Norm Bliss, who is responsible to  
>regulatory issues there.  
>But, if the tones cause me to change the timing of the beacon,  
>(in otherwords step up the time to more frequently or immediate)  
>then it's NOT legal.  
>

Don't be so quick to abandon your idea because one person, even a highly placed and allegedly "informed" person tells you that it is THEIR interpretation that your idea is illegal.

We went through the same bull with someone at the ARRL pronouncing FBB compressed packet forwarding illegal. Turns out, he was wrong, and only succeeded in screwing up our network forwarding system for a few months.

Their are two considerations:

1. The emergency exception, which may or may not apply.
2. What does "transmits because" mean?

Does the tone actually cause the transmission, or does the tone inform a program of an event and then the program makes a decision to transmit or not to transmit? Sometimes it doesn't hurt to mince words. Rules always tend to lag technology and innovation. The FCC has bent considerably in the past, pending new rules.

Don't give up so easily, just because one bureaucrat has issued an OPINION as to what HE INTERPRETS the regulations to mean.

We successfully fought an FCC Engineer in Charge on one of this issues.

So if you are really interested in the project, persevere.

>Therefore, development on this project is now over.  
>I will provide the text of the ARRL response to the sig when I get it  
>(should be later today)  
>  
>Id like to thank those of you who alerted me to the potential of  
>violating FCC rules and appreciate the help from all.  
>73 Mike  
>KD4EMI@AOL.COM  
>  
>  
>  
robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam

---

## 802. Anyone use a 2port Pico and Meridian ?

From: n2czf@gate.net  
Date: Fri, 29 Dec 1995 21:07:46 -0500  
To: aprssig@tapr.org  
Cc: kc4hdk@gate.net  
Message-ID: <199512300207.VAA16712@osceola.gate.net>  
Rendered body type: text/plain

Does anyone out there use a Dual Port Pico Packet and a Magellan Meridian GPS ?  
Would like to stay intouch with someone who currently uses these two units together to try to figure out some occasional "complications" we encounter. At work we have 3 dual port picos with 2 Meridians and 1 Garmin GPS-50. I have never had any problems using the Garmin so we are really confused. We have been trying to get everything to work 100% of the time since September now when we started with the single port version, but have run into various problems.

73's De Rich N2CZF  
n2czf@gate.net  
Jupiter Farms Florida

---

## 803. Win32s Upgrade for Win 3.1x

From: schiers@ibm.net (hasan schiers)  
Date: Sat, 30 Dec 95 02:16:22 EST  
To: aprssig@tapr.org  
Message-ID: <199512300224.CAA01810@smtp-gw01.ny.us.ibm.net>  
Rendered body type: text/plain

If you are running Win95 or WinNT, you do not need this file or info, as 32 bit mode is built in.

As mentioned on the Web page for WinAPRS, those of us running Windows 3.1x require the 32 bit subsystem referred to as Win32s installed in order to run the WinAPRS which is in beta testing now and is scheduled for release at Dayton.

I thought I would share my experience in getting the required file and installing on a system with no previous versions of Win32s installed.

The file name: OLE32S13.EXE (also get the readme.txt file in the same dir)

Where to get the file: ftp site is ftp.ncsa.uiuc.edu

The directory is: /Mosaic/Windows/Win31x/Win32s

The file is VERY LARGE at 3.07 megabytes. It is a self-extracting file that will set up disk images as directories. I had to use a utility called Pcopy in order to split it onto 3 diskettes to move it to the right machine (and of course to combine it after the split).

What follows is an annotated copy of the readme file that tells you how to go about either upgrading to version 1.30 of Win32s, or installing 1.30 on a system (like mine) that had not had Win32s previously installed.

\_\_\_\_\_ READ ME file begins here:

This directory contains Win32s with OLE v1.30a (1.30.166) and the address book DLL (AB.DLL) for Microsoft Mail. Win32s v1.30a is the latest and greatest version of Win32s. We recommend all Mosaic users upgrade to this version. When upgrading Win32s, we recommend you remove the old version of Win32s(v1.25a) and install v1.30a from scratch.

N.B. comments about Mosaic have nothing to do with WinAPRS, so don't\panic.

If you are a Microsoft Mail user, we also recommend you upgrade the AB.DLL in your /windows/system directory. The updated AB.DLL was supplied by Microsoft.

N.B. AB.DLL is not needed for WinAPRS

Below are instructions for removing and installing Win32s.

-----  
N.B. If you have never installed Win32s on your system, skip to the next section: Installing Win32s 1.30

Removing Win32s:

-----  
The following steps can be taken to remove Win32s v1.25a from your Windows 3.1x or Windows for Workgroups 3.1x environment.

1. Remove the following line from the [386Enh] section of your system.ini file. The sysedit.exe application in you /windows/system directory will open an ascii editor to all your system files.

device=C:\WINDOWS\SYSTEM\WIN32S\W32S.386

2. Modify the following line from the [BOOT] section in the SYSTEM.INI file:

drivers=mmsystem.dll winmm16.dll  
to the following (remove winmm16.dll):  
drivers=mmsystem.dll

3. Delete the following files from your c:\windows\system subdirectory or from the SYSTEM directory in network installations:

W32SYS.DLL  
WIN32S16.DLL  
WIN32S.INI

4. Delete all files in the c:\windows\system\win32s subdirectory.

5. Delete the c:\windows\system\win32s directory

6. Reboot your machine.

Your system is now Win32s free. You will not be able to run Win32 applications.

Installing Win32s v1.30

-----  
1. Download OLE32S13.EXE (3,072,788 Bytes) into a temporary directory. (ie. c:\install)

2. With the File Manager open the temporary directory. (where you placed your downloaded file OLE32S13.EXE)

3. Double click on OLE32S13.EXE (it will extract the files)

4. Double click on Install.bat (it will try to install, but for me failed, which was obvious in that no Win32s setup program appeared)

5. Follow the instructions from the setup program. (Be sure to let it install the game FreeCell, as running it will tell you if your install has been successful)

Win32s v1.30 is now installed and you will be able to run Win32

applications.

N.B. This procedure did not quite work right. Step 3 above extracted the archive and created the disk images in the proper directories. Install.bat, however, did not work properly, as it never put me into the Win32s setup program. I resolved this by restarting windows, opening up the file manager changing to the .\disk1 directory and executing setup.exe from the file manager in that directory.

What worked for me was to follow the directions as listed and then restart windows, open the file manager, change to the .\disk1 directory and execute setup.exe by double clicking on it. From there on it was a snap following the prompts of the Win32s installation setup screen.

This brought up the Win32 setup screen, and successfully installed Win32s ver 1.30, and installed the game freecell to test it. All went fine, and I was prompted to add share.exe to my autoexec.bat.

Now it is wait for a beta copy of WinAprs (if I get sent one), or for the first release due out around Dayton time.

I hope this will help someone who is worried about what is involved with the upgrade. It went very smoothly, once I figured out how to move a 3.07 mega-byte file from one machine to the other, and I worked around the flaw in the install program. 73,

robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam

---

#### 804. Re: [APRSSIG:5582] Ultimeter 2000 Remote Problems

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 29 Dec 1995 22:00:50 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951229215822.16916A-100000@greatlakes>  
Rendered body type: text/plain

On Fri, 29 Dec 1995, John D. Snoddy wrote:

> Has anyone be able to get the U-2000 operating in the Remote Mode with  
> Versions 74x of APRS? I connected my U-2000 to my TNC that is currently  
>  
> \$ULTW000000000008F000027DE0002CEBA0001036601670447

WB4APR REPLY COMMENT:

Looks like I got some work to do in January! Sorry, it worked for me... but I guess I have to dig deeper....

PS. John, I saw ur SSP-1 as I drove thru NC. In the whole state I only saw you and the MMB-9 digi.... Hang in there....

---

#### 805. Re: [APRSSIG:5585] Space Mode & Dual -port TNC

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 29 Dec 1995 22:04:19 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951229220217.16916B-100000@greatlakes>  
Rendered body type: text/plain

On Fri, 29 Dec 1995, MR MICHAEL R HESKETT wrote:

> Does anyone have any experience with with Space mode automatically  
> triggering on a dual-port TNC. In my case a KPC-4 (2 VHFports).

WB4APR REPLY COMMENT:

ANY mechanism that allows APRS to see its OWN packet will trigger the SUCCESS message. It can be audio loop back, or some TNC command that lets the TNC echo its own transmitted packets... Look at the VIEW screen and if you see your packets, then you have a problem....

---

#### 806. Re: [APRSSIG:5587] More lessons learned

From: rwf <rwf@mindspring.com>  
Date: Sat, 30 Dec 1995 09:41:38 -0500  
To: aprssig@tapr.org  
Message-ID: <2.2.16.19951230094813.37b77a10@mindspring.com>  
Rendered body type: text/plain



At 05:58 PM 12/29/95 -0600, Dr. Bob wrote:  
>When ever I travel with APRS I usually find some things to change. This  
>time, only one thing came up. THOSE REDICULUOUS PHG-RINGS!  
>  
>You wouldn't believe some of the rings I saw in the southeast  
>

hehehe- Bill are you lurking?

>Here is where I can change it a little bit.  
>  
> For my next version ..... snip This way you will see the RECEIVE  
range of all other stations  
>and the TRANSMIT range of your own. If the circles overlap, then you  
>will be tracked...

Sounds good!

>  
>I spent my entire vacation in Atlanta, only 8 miles from a WIDE. My  
>terrain was about average, and after trying the attic, roof, and then a  
>line into the top of a 40 foot tree, I still could NOT even HEAR the WIDE  
>at all. I finally got out via another home station, but without hearing  
>a WIDE, I could not see any more than 1 to three neighbors. The WIDE PHG  
>ring, of course went FAR beyond my location...

Haven't talked to the owner yet, he's been off APRS for 2 wks (home station  
not visible)-  
but N4YCI drove \*right by it\* and still could not get it to digi.  
Wonder if it is a Non-Digi right now.

Ralph

---

## 807. Re: [APRSSIG:5449] Re: Error Ellips

From: Gerald J Creager <gergy@cs.tamu.edu>  
Date: Sat, 30 Dec 1995 09:58:24 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <199512301558.JAA26268@solar.cs.tamu.edu>  
Rendered body type: text/plain

David W. Barrow III sez:

>  
> Does LoranC have similiar inaccuracy built in?

Yes. Period. But not by "diddling." Because of the nature of the  
multi-station triangulation methods employed by LORAN-C, the wavelength, and  
the fact that \_most\_ of the stations are located next to extensive bodies of  
water, there's significant common mode error inherent in the system. While  
you can get 100-200 meter accuracies with LORAN-C (post-processed) that's  
what we're already seeing with GPS with SA on.

> Do I understand that Europeans are staying with LoranC to avoid  
> the US's "fiddle factor"?

A number of the European Community nations are already implementing nationwide  
DGPS systems (public) or satellite-based wide area augmentation systems  
(similar to the FAA's proposed methods). The European air traffic control  
system embraced GPS without correction for enroute navigation a couple of  
years before the US did. Some folks now are going to a combination of GPS  
and GLONASS (the Russian version) to compare results and enhance accuracy.

> Thanks VERY MUCH for educating the rest of us.

Ciao,  
Gerry

---

## 808. Re: [APRSSIG:5588] Re: The results of Wx investigation are in.

From: Daniel Velez <dvelez@norfolk.infi.net>  
Date: Sat, 30 Dec 1995 11:46:27 -0500  
To: aprssig@tapr.org  
Message-ID: <199512301646.LAA29288@moe.infi.net>  
Rendered body type: text/plain

I've been chatting with a friend, KC40CG, about this... he's implemented a  
system for voice repeaters that retransmits a minute or so of the NWS audio

after a tone...read on for background on the equipment (which is similar to our APRS application) and his comments on the current discussion:

=====

THE EQUIPMENT From W5YI article (edited for brevity):

#### AMATEUR PATENTS NEW WEATHER RADIO RECEIVER Designed for Failure Situations, Stores Weather Warnings

Virginia emergency authorities convened a meeting in 1993 after devastating tornadoes swept through several communities in the state. Local emergency managers had not known about tornado warnings sent by the National Weather Service (NWS) until after they had started to respond to damage caused by the storms. They were desperate for a better link between the NWS and local authorities.

After two years of experimenting in his garage, Gropper has received a patent for the technology used in Weather Eagle 100, a NOAA Weather Radio scanner with sophisticated capabilities. The receiver is designed for use by emergency managers, police and fire departments as well as for use in public buildings such as churches, schools, shopping malls and theaters.

KC40CG studied the NWS NOAA Weather Radio system, which broadcasts tone-alert warnings and forecasts in the 162.4-162.55 MHz band from more than 400 transmitters across the country. Canada is protected by a similar system on the same channels. Though usually effective, NOAA Weather Radio is prone to breakdowns and "dead" carriers with no audio, he discovered.

A method had to be invented to switch a receiver to another Weather Radio channel if the carrier drops or if the carrier stays on with no sound. From analysis of 60 hours of transmissions, he designed signal processing technology optimized for Weather Radio. The receiver seeks the best of the seven possible channels, rescanning for the strongest signal once per minute. If the best frequency loses audio, it switches to the next best channel if one is available.

Another problem was that existing receivers and scanners had no way of storing warnings for later playback or broadcast. Gropper found that in many cases, warnings were broadcast, but officials were not present to hear them - sometimes with tragic consequences.

His receiver detects the weather alert tone, records the official alert broadcast in solid-state memory, time-and-date stamps the recording, and keys audible and/or visual alarms. It can retransmit the warning over public address loudspeakers, mobile radio systems and repeaters. "If the firemen want to replay the warning or hear one minute of live weather they press a DTMF speed dial key on their radio in the fire truck," Gropper told us. "That sends a signal back to our radio in the firehouse, which responds back over the fire channel with either message. They love it. It worked 10 times during tornadoes we had on October 5 in the Virginia Tidewater area."

"We had to add helical filters and a Gasfet preamp to allow the radio to survive reasonably high RF environments. It includes all of the controls to interface with a repeater, including a busy input to shut up the weather radio when there is an input on the repeater, and tone-detect logic to trip other alarms and macros when the warning comes in." If the repeater is busy, and a warning is received, the Weather Eagle will transmit eight beeps over the air to alert repeater users that a warning has been issued.

"I can envision this radio being in the studios of many radio stations in the midwest and southeast. It has the built-in ability to play (and replay) the digitally-recorded warning into an audio output as needed, so the DJ can make the announcement of a weather warning and the engineer can press the button instead of messing around with rereading the text or trying to tape the warning for replay."

Federal officials have announced plans to expand the use and coverage of NOAA Weather Radio. "Special emphasis will be placed on getting these radios installed in public gathering places so they will be as common as smoke detectors," Vice President Al Gore stated.

"Together with the Federal Emergency Management Agency, the Department of Agriculture, and the U.S. Geological Survey, NOAA Weather Radio will soon be transformed into an 'all hazards' radio network, making it the single source for the most comprehensive weather and emergency information available for all citizens," according to the NWS.

For his support of SKYWARN, KC40CG and his fellow ham volunteers received awards from Dr. "Joe" Friday, NWS Director (May 1994 QST, pg. 95). Dan looks forward to another achievement, he says: saving lives by getting severe weather warnings to public safety officials and citizens.

In fact, the awards ceremony in Washington was cut short - by a real SKYWARN activation for severe thunderstorms!

The Weather Eagle 100 Weather Radio Scanner, Recorder and Communications Interface lists for \$595.00 from Thunder Eagle, Inc., PO Box 625, Vienna VA 22183, 703 242 0122, thuneagle@aol.com.

=====  
KC40CG comments on my question about who is controlling the transmission:  
"Ah Yes!

That is a closer question, of technically who theoretically causes an amateur radio transmitter to transmit!

I am not the FCC, but here are my opinions. Take them for what they are worth??

The ultimate control person responsible for the transmission is the amateur radio licensee. Therefore there is a ham involved and responsible for the transmission, which is (in my opinion) the main intent of the FCC rules on this point.

The FCC, in the same Report and Order, stated their goal for flexibility in amateur radio communications by stating, "...we will rely on the amateur service's traditions of self-regulation and cooperation between licensees, the cornerstones of the amateur service, to determine whether specific communications should be transmitted on amateur service frequencies."

I treat the occurrence of an NWS alert tone the same as an automatic repeater site break in alarm, power failure alarm, temperature announcement, and club voice announcement, all of which are regularly automatically transmitted on amateur radio frequencies. In each instance the licensee has chosen to lend his license to the repeater controller to automatically transmit the detection of a changed condition.

In the NWS alert case, the licensee has chosen to detect the occurrence of a changed condition, that of the issuance of a potentially life saving alarm originated by a federal government entity, NWS, and transmitted on an official government frequency, NOAA Weather Radio, with the intent by the government to alert the public of the occurrence of potentially life and property threatening severe weather.

The FCC permits the retransmission of NOAA weather radio on private land mobile and emergency management frequencies. The FCC specifically permits the transmission of NOAA Weather Radio on Amateur Frequencies. The new FCC Emergency Alerting System (formerly Emergency Broadcast System) will retransmit NOAA Weather Radio. Vice President Al Gore has stated that "Special emphasis will be placed on getting these radios installed in public gathering places so they will be as common as smoke detectors." Therefore, the FCC and the federal government clearly understand the importance of NOAA Weather Radio and will likely support the integration of NOAA Weather Radio's automated alarm features into other communications systems, such as amateur radio.

Your earlier email had it correctly. When you may have seconds to get out of the way of a tornado, a warning ten minutes later will likely be way to late to be of any value.

Therefore, in my view, it is the amateur licensee who is originating the NWS alert transmission on amateur radio frequencies. It would be different if the NWS connected the two systems together, which they are not doing. All they are doing is issuing weather alerts. It is the amateur who is detecting the issuance of the alert and is causing the amateur radio transmitter to be keyed. It is the amateur who shuts down the retransmission if it malfunctions, not the NWS. It is the amateur who is responsible if the NWS alarm interferes with communication on the amateur frequencies, not the NWS.

So, I think such retransmission of NWS alerts is perfectly fine and should be accomplished in every possible manner. This is clearly based on the principals of amateur radio. Rule 97.1(a) states, "Recognition and enhancement of the value of amateur service to the public as a voluntary non commercial communication service, particularly with respect to providing emergency

=====

73 de Dan

```
Dan Velez                                A00000GA!  A00000GA!  
dvelez@infi.net                          DIVE!  DIVE!  DIVE!  
n4wzr@wd4miz.va.usa.noam                "Shimmin' out!"
```

NNNN

73, gerry

Actually its not over water paths but delay over land paths that degrade loran-c accuracy. While loran does not have the absolute accuracy of gps, it will usually allow a user to return to a given point closer than non-differential gps. Using both loran-c and gps but I never assume that either has more than 1/4 mile accuracy especially if they do not agree.

Bob - wd6dod  
skipper "Stormy Petrel"

---

## 812. re:Space Mode & Dual-Port TNC

From: MBTD87A@prodigy.com (MR MICHAEL R HESKETT)  
Date: Sat, 30 Dec 1995 13:57:29 EST  
To: aprssig@tapr.org  
Message-ID: <091.07611191.MBTD87A@prodigy.com>  
Rendered body type: text/plain

-- [ From: Mike Heskett \* EMC.Ver #2.10P ] --

Thanks Bob and James for the replies.

I may not have explained the problem correctly.

The problem is that APRS, in Space mode, does not automatically transmit when messages are received from the spacecraft id (R0MIR, in this case - or any other in testing) for my dual port KPC-4. It works fine on a single port TNC. I have defined my TNC as a KAM and as TAPR, with no difference. I have tested on both ports - no difference.

I know that UNPROTO is set correct because I can manually force transmissions with X B, and I have seen my packet digipeated from R0MIR.

It is as (but not necessarily) if APRS is not getting a match in the id of the spacecraft and what it is comparing against. I don't know how that comparison is tested but I can see how it might not work. If it is programmed to look at the return from a UNPROTO command and takes the characters after the "VIA " until the next space for my KPC-4 it would set the following as the id it would compare for:

R0MIR/EM12JU

or some other non-blank characters after the "/" because an UNPROTO command on my TNC returns both ports :

UNPROTO EM12JU VIA R0MIR/EM12JU VIA R0MIR

I have had a little trouble getting the Unproto set right. It works better if I enter space mode first then set the spacecraft id with the U command. Some of the docs mentions setting U first. I don't think that makes a difference, because I have tried it both ways, but it might. When I set the U first then enter Space mode, sometimes the via goes back to RELAY.

Thanks again:  
Mike  
WB5QLD

---

## 813. Wx

From: KD4EMI@aol.com  
Date: Sat, 30 Dec 1995 14:21:00 -0500  
To: aprssig@tapr.org  
Message-ID: <951230142058\_27380611@emout05.mail.aol.com>  
Rendered body type: text/plain

I have been following the wx discussions both pro and con.

Also, Ive taken the liberty of fwding the msgs to arrl.  
They could ask the fcc for a "ruling" I suppose.

But then the question remain,  
How is this better than a regular Wx alert radio...?  
If you are really concerned abt the wx, carry one !

Although the idea is a neat one, interfacing computer stamps and radios and the like, I think that adding a step into the system induces another chance of error. The other option is to have a wx radar or something like that at home (we have a guy down here with one) that senses bad wx (tornado's too ?) and then GENERATES the alert. Problem there is causing a panic...Would not be an official alert.

Another option is to have a HAM at the NWS generate an alert for the APRS group.  
We have a station at NWS running aprs, but not sure who is responsible for it...!  
So, Im playing around with building something else that we can play with. Frankly, I would not mind a cheaper peet bros type wx device. It slays me to pay over 300 bucks for a wx station... Perhaps I could work on that.. We'll see....  
Again, even if the FCC sent me a letter saying DO IT !  
I still think it adds another level of chaos into a system that could potentially not work. I would be devastated if people relied on this for wx warning and it failed.  
I'll keep trying to figure some way of automating something at NWS that I can link to the ham bands. Of course any ideas are invited.  
73 MIke KD4EMI  
KD4EMI@AOL.COM

---

## 814. Space Mode & Dual-Port TNC

From: MBTD87A@prodigy.com (MR MICHAEL R HESKETT)  
Date: Sat, 30 Dec 1995 15:40:34 EST  
To: aprssig@tapr.org  
Message-ID: <013.07615651.MBTD87A@prodigy.com>  
Rendered body type: text/plain  
-- [ From: Mike Heskett \* EMC.Ver #2.10P ] --

Bob (and others):

I think I found something that works. It does seem to require the path to be set before entering space mode. For this dual port to work, I have to enter the digi path in the saved paths and then set it with the O D commands, enter space mode and all is OK. If I set the path via th U command and then enter space mode, for some reason my path gets reset to what it was previously (but different).

It is like there is a save area somewhere that it goes back to.

Thanks again

Mike - WB5QLD

---

## 815. Re: [APRSSIG:5596] Wx Alerting

From: Bob Wilkins n6fri <rwilkins@uhf.org>  
Date: Sat, 30 Dec 1995 13:35:37 -0800 (PST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951230132602.28370D-100000@ccnet3>  
Rendered body type: text/plain

On Sat, 30 Dec 1995, BOB DERDERIAN wrote:

> General comment to all: I like the idea of Keith's of limiting bulls to 24hr  
> MAX. I am tired of seeing my bulletin screen filled up with the same stuff  
> day after day. Though a good operator would not need to have this limitation  
> built into the program, 'cause he would be responsible enough to kill his  
> bull after a reasonable period of time! Apparently we do not have  
> considerate ops on the net though, so it looks like this may become a  
> necessity.

Maybe at some time in the future code could be written to make the bulletin behave more like navtext. Once you see a bulliten thats it, one time only on your screen. They could be saved to a bull file for review. Maybe you could delete particular bulls from that file, if they were of no use. I hate erasing the bulls only to have the computer beep again in an hour with the same bull!

Maybe an initial time stamp could identify them?

Thanks,

Bob n6fri

Bob Wilkins  
Berkeley, California  
94712-2354

home n6fri@uhf.org  
work bwilkins@cave.org  
play n6fri@n6eeg.#nocal.ca.usa.noam

---

## 816. MFJ-8621 Crystals

From: William Richarz <wricharz@ix.netcom.com>  
Date: Sat, 30 Dec 1995 21:23:03 -0500

To: aprssig@tapr.org  
Message-ID: <199512310223.SAA08994@ix7.ix.netcom.com>  
Rendered body type: text/plain

Anyone out there have problems getting MFJ-8621 receive xtals for 145.79? This is the second one I have received from MFJ, and neither will adjust to the correct frequency, close but no cigar. Best I can do with the slug tuned all-the-way-out, is about 145.785 & I copy strong 145.77 stations, so guess the radio is broad as a barndoor too. Just wondering if MFJ has a bad batch of xtals on 145.79 receive? MFJ advises connecting Freq. Counter to pin 3 of the receiver chip and adjusting for 135.090 Mhz. for accurate tuning, but best I can do is 135.0867, a bit low. I would think I should do better than this.

Thanks for any replies.

```
=====
Bill Richarz <WA4VAF>           | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.          | Packet  : WA4VAF@W4BFB.CLT.NC.USA.NA
Charlotte, NC 28227             | Phone   : (704) 545-9368
=====
```

---

## 817. Re: [APRSSIG:5593] Re: More lessons learned

From: jrholley@bright.net (Jim Holley)  
Date: Sat, 30 Dec 1995 21:24:57 -0500  
To: aprssig@tapr.org  
Message-ID: <199512310224.VAA26006@brutus.bright.net>  
Rendered body type: text/plain

```
>At 05:58 PM 12/29/95 -0600, Dr. Bob wrote:
>>When ever I travel with APRS I usually find some things to change. This
>>time, only one thing came up. THOSE REDICULUOUS PHG-RINGS!
>>
>>You wouldn't believe some of the rings I saw in the southeast
>>
>
>hehehe- Bill are you lurking?
>
>
>>Here is where I can change it a little bit.
>>
> For my next version ..... snip This way you will see the RECEIVE
>range of all other stations
>>and the TRANSMIT range of your own. If the circles overlap, then you
>>will be tracked...
>
>
>Sounds good!
>
>Hi Bob, think you have a good idea on the PHG. But how about increasing the
>gain figure above 9db to also make it more accurate for the use of the high
>gain beams in use? I think it's a good idea if not to much problem. Thanks!
>>
>>
>Jim Holley KB8VDT
>jrholley@bright.net
>
>
```

---

## 818. Re: More lessons learned

From: jimk@on-ramp.net  
Date: Sat, 30 Dec 1995 22:30:46 -0500  
To: aprssig@tapr.org  
Message-ID: <199512310330.WAA30241@mail.ee.net>  
Rendered body type: text/plain

```
>Date: Fri, 29 Dec 1995 18:39:18 -0500 (EST)
>From: Bob Bruninga <bruninga@nadn.navy.mil>
>To: aprssig@tapr.org
>Subject: More lessons learned
>Message-ID: <Pine.SUN.3.91.951229182719.16659A-100000@greatlakes>
>
>When ever I travel with APRS I usually find some things to change. This
>time, only one thing came up. THOSE REDICULUOUS PHG-RINGS!
```

- SNIP -

```
>I spent my entire vacation in Atlanta, only 8 miles from a WIDE. My
>terrain was about average, and after trying the attic, roof, and then a
```

>line into the top of a 40 foot tree, I still could NOT even HEAR the WIDE  
>at all. I finally got out via another home station, but without hearing  
>a WIDE, I could not see any more than 1 to three neighbors. The WIDE PHG  
>ring, of course went FAR beyond my location...

Hay Bob, the only thing you need to change is your radio. Reference my previous message "APRS on I-75". All those stations I was seeing in Atlanta were with my HT & rubber duck! My height above average terrain was about ground zero, too.

There is certainly nothing wrong with the APRS network in Atlanta and there should have been no reason you weren't seeing any more than you did. Sure sounds to me like your radio needs a tune up. Hi.Hi.

```
-----  
| 73, de Jim (KG8GE) | jmk@on-ramp.net | Somewhere near the great |  
| Home of PLT2MAP. | KG8GE@WN7C.NCOH.OH.USA | lakes! |  
-----
```

---

## 819. Re: [APRSSIG:5604] Re: More lessons learned

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 31 Dec 1995 01:16:16 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951231011127.18143G-100000@greatlakes>  
Rendered body type: text/plain

On Sat, 30 Dec 1995, Jim Holley wrote:

> Hi Bob, think you have a good idea on the PHG. But how about increasing the  
> gain figure above 9db to also make it more accurate for the use of the high  
> gain beams in use? I think it's a good idea if not to much problem. Thanks!

WB4APR REPLY COMMENT:

No need, remember when you have a beam, you should be entering a DIRECTIVITY.

This offsets your PHG circle by a factor of about 2 in the favored direction. This is about the same as a 6 db additional gain. So unless your beam is greater than 15 dB then it is adequately represented.

And increasing the circle size much beyond about 9 dB makes little sense, because your range is more limited by the radio horizon than any amount of additional power (or bigger circle...)

---

## 820. Re: [APRSSIG:5605] Re: More lessons learned

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 31 Dec 1995 01:23:26 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951231011823.18143H-100000@greatlakes>  
Rendered body type: text/plain

On Sat, 30 Dec 1995 jmk@on-ramp.net wrote:

> >I spent my entire vacation in Atlanta, only 8 miles from a WIDE. My  
> >terrain was about average, and after trying the attic, roof, and then a  
> >line into the top of a 40 foot tree, I still could NOT even HEAR the WIDE  
>  
> Hay Bob, the only thing you need to change is your radio. Reference my  
> message "APRS on I-75".

WB4APR REPLY COMMENT:

Unfortunately, I came in the I-85 corridor and stayed in the South East near Conyers. Whenever I went mobile more than a few miles toward town, I got lots of packets. But in Conyers/Lithonia, trying four (4) different radios, and 4 different antennas, nothing could be heard...

---

## 821. paket

From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Date: Sun, 31 Dec 95 05:55:40 EST  
To: aprssig@tapr.org  
Message-ID: <9512311055.AA09790@abaco.coastalnet.com>  
Rendered body type: text/plain

anyone know where i can get the packet (listen only) packmon for use with the hammmcomm interface?

tk's'....73's....david



## 822. APRS for Windows

From: HooLooVoo1@aol.com  
Date: Sun, 31 Dec 1995 07:43:19 -0500  
To: aprssig@tapr.org  
Message-ID: <951231074318\_81453599@mail02.mail.aol.com>  
Rendered body type: text/plain

Has the thought of writing APRS for Windows been discussed? I beleive it would increase the usefulness of APRS in that the user can resize or move a window over a large area map to zoom or look somewhere else in the net...

If you've ever played SimCity for Windows you'll understand where I'm going with this. Right now APRS works fine under windows, but doesn't take advantage of the Windows API and sometimes locks up (on Win 3.1, but I haven't tried it for long enuf on Win 95 to come to a conclusion) and doesn't run under multitasking as well as I would like to see it.

73's de David

N3NGB@WB3FFV.MD.USA.NOAM  
H00L00V001@AOL.COM

---

## 823. Maptip

From: warakois@world.std.com (James A Warakois)  
Date: Sun, 31 Dec 1995 08:33:41 -0500  
To: aprssig@tapr.org  
Message-ID: <199512311333.AA01043@world.std.com>  
Rendered body type: text/plain

After having tried to make maps since APRS version 1.08 I have come up with several tricks for making or editing maps...maybe someone else can also add their techniques...

As discussed before: The smooth transition from one map to another (same magnification ,spelled "scale") involves making overlapping maps of adjacent areas. Often the same special features (locally important streets,features) must be transferred to a portion of each of the overlapping maps....

I've made a "work map" with the special features (streets etc) in a non-standard color and then transferred this non standard color to the overlapping maps..then when I'm satisfied I change the color of the transferred streets to the routine colors...

This prevents overlaying streets of the same color especially in high detail congested street maps like Boston (cow paths turned to streets and such)

Now, what slick tricks do you have??

Jim/W1KRU

Jim Warakois  
W1KRU

Map Maker  
DF'er

warakois@world.std.com  
W1KRU@KA1TUZ.EMA.MA.NA

---

## 824. Re: [APRSSIG:5603] MFJ-8621 Crystals

From: Gerald J Creager <gerry@cs.tamu.edu>  
Date: Sun, 31 Dec 1995 08:04:57 -0600 (CST)  
To: aprssig@tapr.org  
Message-ID: <199512311404.IAA01231@solar.cs.tamu.edu>  
Rendered body type: text/plain

William Richarz sez:

>

> Anyone out there have problems getting MFJ-8621 receive xtals for 145.79?

Don't have one, but...

> receiver chip and adjusting for 135.090 Mhz. for accurate tuning, but best I  
> can do is 135.0867, a bit low. I would think I should do better than this.

Any chance of padding the crystal with a small value cap? Couple of pf might bring you into range.

73, gerry  
n5jxs@tamu.edu

## 825. Where is APRS74f.ZIP ??

From: n2czf@gate.net  
Date: Sun, 31 Dec 1995 09:46:33 -0500  
To: aprssig@tapr.org  
Message-ID: <199512311446.JAA34518@osceola.gate.net>  
Rendered body type: text/plain

I have seen a few people runing APRS v7.4f and I cdan't find it at all. Looked on the two most obvious places, TAPR and ARN BBS aa week or so ago. Is someone pulling my leg with the beacon line of 7.4f On-Line ???

73's De Rich N2CZF  
n2czf@gate.net  
Jupiter Farms Florida

---

## 826. Re: [APRSSIG:5612] Where is APRS74f.ZIP ??

From: ko4qc@ix.netcom.com (Joel Gamble )  
Date: Sun, 31 Dec 1995 08:32:22 -0800  
To: aprssig@tapr.org  
Message-ID: <199512311632.IAA27561@ix12.ix.netcom.com>  
Rendered body type: text/plain

You wrote:

>  
>I have seen a few people runing APRS v7.4f and I cdan't find it at  
all. Looked  
>on the two most obvious places, TAPR and ARN BBS aa week or so ago. Is  
someone  
>pulling my leg with the beacon line of 7.4f On-Line ???  
>  
>73's De Rich N2CZF  
>n2czf@gate.net  
>Jupiter Farms Florida  
>

Good ? Rich! I too, have seen the beacons stating they were running  
74F. I looked and couldnt find it. Havnt looked in a few days. Think I  
will look now. See ya later.

Ko4qC  
Joel

---

## 827. [APRSSIG:5612] Where is APRS74f.ZIP ??

From: jeff.wallach@drig.com (Jeff Wallach)  
Date: Sun, 31 Dec 95 11:17:00 -0600  
To: APRSSIG@tapr.org  
Message-ID: <59.48853.99.0C38ED19@drig.com>  
Rendered body type: text/plain

-> I have seen a few people runing APRS v7.4f and I cdan't find it at  
-> all. Looked on the two most obvious places, TAPR and ARN BBS aa week  
-> or so ago. Is someone pulling my leg with the beacon line of 7.4f  
-> On-Line ???  
->  
-> 73's De Rich N2CZF  
-> n2czf@gate.net  
-> Jupiter Farms Florida

Rich,

The beta2000.zip is on the DRIG ftp server at:

ftp.drig.com /pub/aprs

this is the APRS74F version.

73s

jeff n5itu

---

## 828. Re: [APRSSIG:5612] Where is APRS74f.ZIP ??

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 31 Dec 1995 16:23:32 -0500 (EST)  
To: aprssig@tapr.org  
Message-ID: <Pine.SUN.3.91.951231162217.18651A-100000@greatlakes>  
Rendered body type: text/plain

On Sun, 31 Dec 1995 n2czf@gate.net wrote:

> I have seen a few people runing APRS v7.4f and I cdan't find it at all. Looked  
> on the two most obvious places, TAPR and ARN BBS aa week or so ago. Is someone  
> pulling my leg with the beacon line of 7.4f On-Line ???

WB4APR REPLY COMMENT:

There is no official 74f. It was the BETA2000 version that tried to fix  
the U-2000 problem. It did not work. Do NOT distribute it.

---

## 829. pakmon 1.0

From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Date: Mon, 1 Jan 96 00:44:04 EST  
To: aprssig@tapr.org  
Message-ID: <9601010544.AB07010@abaco.coastalnet.com>  
Rendered body type: text/plain

looking for this program for use with the hammmcomm interface. it is for  
packet rx only. just saw a ref. to it in the new nuts & bolts mag.

tk...73's...david

---

## 830. MFJ-8621 Crystals

From: jeff.brenton@espi.com  
Date: Sun, 31 Dec 95 22:23:53 -0500  
To: aprssig@tapr.org  
Message-ID: <9512312223.0VGR20E@espi.com>  
Rendered body type: text/plain

William Richarz asked if anyone else had problems tuning the  
MFJ-supplied crystals for the MFJ-8621. I did - they were HORRID, but I  
\*think\* I have them close. It was impossible to tune the set (I tried  
two) with the book method, and I haven't had access to a service  
monitor yet to check it, but I used the "ear" method to get it as close  
as I could.

To be honest, I don't think MFJ \*cares\* about the performance of the  
8621 on 145.790...

---